

## Curriculum Vitae

**Name:** Arjun Hanumantrao Kardile

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**Date of Birth:** 06-04-1991



### Academic Credentials

| Class/<br>Degree | Specialization                                   | Institution  | Univer<br>sity   | Year | %/CGPA | Class          |
|------------------|--|--|--|------|--------|----------------|
| Ph. D.           | NA   | NA   | NA   | NA   | NA     | NA             |
| M.E.             | M.E.<br>(Control<br>System<br>Engineering)       | M.B.E.S<br>College of<br>Engineering,<br>Ambajogai | Dr. Babasaheb<br>Ambedkar<br>Marathwada<br>University,<br>Auranagbad | 2016 | 8.20   | First<br>Class |
| B.E.             | B.E.<br>(Electrical<br>Electronics<br>and Power) | M.B.E.S<br>College of<br>Engineering,<br>Ambajogai | Dr. Babasaheb<br>Ambedkar<br>Marathwada<br>University,<br>Auranagbad | 2012 | 76.07  | First<br>Class |

#### M. Tech. Project:

**Fuzzy Sliding Mode Control of Small Hydro Power Plant based on PSO Algorithm**

#### Key Research Areas:

Renewable Energy Sources, Control System, Energy Conservation, Electrical Drives and Control

## Experience

| Sr. No. | Organization  | Post                | From       | To         | Years | Months |
|---------|---|---------------------|------------|------------|-------|--------|
| 1       | Marathwada Institute of Technology Aurangabad                       | Assistant Professor | 03-10-2017 | Till Date  | 4     | 11     |
| 2       | Deogiri Institute of Engineering and Management Studies, Aurangabad | Assistant Professor | 01-01-2015 | 02-10-2017 | 2     | 9      |
| 3       | Maharashtra Institute of Technology Aurangabad                      | Assistant Professor | 14-01-2013 | 31-08-2013 | 0     | 8      |
| 4       | Ambarwadikars Institute of Technology Aurangabad                    | Lecturer            | 09-07-2012 | 12-01-2013 | 0     | 6      |

### List of Courses Taught/Teaching at UG level

- Network Analysis and Synthesis
- Numerical Methods and Programming
- Power Plant Engineering
- Electrical Mobility
- Electric Traction and Utilization
- Basic Electrical Engineering

### List of Courses Taught/Teaching at PG level

- NA
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### **Additional Assignments/Duties**

- Working as a Departmental NPTEL Coordinator.
- Working as a Departmental Energy Service Company (ESCO) Coordinator.
- Working as Admission Committee Member.
- Worked as a Under Study (US) for the Dr. BATU Exam.
- Worked as a Class Teacher.
- Working as a Lab In-charge of Electrical Measurement Lab.
- Worked as an On-line Class Test Coordinator.
- Worked as an Program organizing committee member for department.
- Paper Setter for Dr.B.A.M.U. Aurangabad
- Examiner in CAS, Dr.B.A.M.U. Aurangabad
- External Examiner, Dr.B.A.M.U. Aurangabad
- External Examiner, Dr.B.A.T.U.Lonere

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### **Membership of Professional Bodies**

- Lifetime member of International Association of Engineers (IAENG).

### **Research Projects/Projects Guided**

NIL

### **Computer/Software Proficiency**

- C
- MATLAB

### **Seminar/Workshop/Industrial Training/STTP//FDP/CEP/Conference Attended**

- 5 week FDP IITBombayX: FDP101x Foundation Program in ICT for Education during March-April 2018.
- IEEE International Conference on Inventive Computing and Informatics (ICICI 2017), Coimbatore, 2017
- Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy, Manipal Institute of Technology, Sikkim, 2016.
- IEEE International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT), 2016, Chennai.
- IEEE International Conference on Energy Systems and Applications, 2015, Pune.
- International Conference on Science and Technology, 2014, Pune.
- Workshop on Networks and Lines, 2013, Auranagbad.

### **Seminar/Workshop/Industrial Training/STTP//FDP/CEP/Conference organized**

- Organized 1 Day Webinar on “An Admission Adjutant- A gateway to Explore Electrical Engineering” on 03<sup>rd</sup> September 2021.
- Organized 1 Day Webinar on “Recent Trends in Hybrid Fuel Cell Electric Vehicles” on 18<sup>th</sup> June 2021.

### **Invited talks delivered**

Guest Lecture on “Electrical Measurement Techniques” at MIT Polytechnic Aurangabad

### **Projects, Research Grants and Consultancy**

Energy Audit of MIT Hospital Aurangabad  
Energy Audit of Maratha Samaj Boys Hostel Aurangabad.

## Intellectual Property Rights

| Sr. No. | Registration Number | Detailed Work | Publication Date |
|---------|---------------------|---------------|------------------|
| 1       | NA                  | NA            | NA               |
| 2       | NA                  | NA            | NA               |

## List of Research Publications

### Papers in National/ International Journal

- “Sliding Mode Control Based  $2N_x$  Interleaved Boost Converter for Solar PV Applications”, International conference on Intelligent computing and Control Systems 2018.
- “SMC Based  $N_x$  Converter,” IEEE International Conference on Inventive Computing and Informatics (ICICI 2017), Coimbatore, ISBN: 978-1-5386-4031-9.
- “Advanced Variable Structure Control for Distributed Power Generation,” Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy, Sikkim Manipal Institute of Technology, Sikkim.
- “Small Hydro Power Plant control based on Fuzzy Sliding Mode Controller using Particle Swarm Optimization algorithm,” IEEE Conference Publications, 2016 ,DOI: 10.1109/ICEEOT.2016.7754888
- “DC-DC buck converter through duality approach for current based loads,” IEEE Conference Publications, 2016, DOI: 10.1109/ICEEOT.2016.7755167
- Adaptive approach in deregulation of Indian power system, IEEE Conference Publications, 2015, DOI: 10.1109/ICESA.2015.7503333

### Papers in International Conferences Proceedings

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### Books/ Book Chapter

NIL

### NPTEL Certification

| Start Date | End Date  | Duration<br>(in Weeks) | Course Name  | Marks<br>(Out<br>of<br>100) | Performance |
|------------|-----------|------------------------|--|-----------------------------|-------------|
| 29/7/2019  | 20/9/2019 | 8                      | Accreditation and<br>Outcome based<br>Learning - Online. | 90                          | Elite+Gold  |
|            |           |                        |  |                             |             |

### Awards, Achievements and Recognition

- Gold Certificate for NPTEL Online Course on Accreditation and Outcome based Learning - Online.

Date: 30-08-2022

Place: Aurangabad