

Name: **Dr. Mrs. Vrunda A. Joshi**

Designation: Professor



### Contact Details:

- Email id: vaj\_elect@pvgcoet.ac.in
- Phone Number with extension: 91-20-24228258/62/79 Extn(422)

### Educational Qualification:

- Ph.D. (Systems and Control), IIT, Bombay
- M.E.(Control Systems),
- B.E.(Electrical), Pune University.

**Research Interests:** Mobile Robotics, Drives and Control, Nonlinear Control

**Field of Consultancy(Aspiring):** Control System, Embedded Robotics

### Consultancy offered:

1. **Title:** Development of control algorithms for brushless D.C. motor drive  
**Area :** Drives and Control  
**Amount:** 8.62 Lakhs  
**Sponsoring Agency:** R&DE(E), Dighi, DRDO Laboratory under CARS scheme  
(Contract for Acquisition of Research Services)  
**Duration:** 2 years (2012-14)

### Experience:

- 1) Industrial Experience (total years) : 1.5 years
- 2) Teaching Experience( total number of years): 22 years
- 3) Research Experience: 9 years

## **Research Projects :**

1. **Title:** Path planning of nonholonomic systems  
**Area :** Mobile Robotics  
**Amount:** 11.8 Lakhs  
**Sponsoring Agency:** Department of Science and Technology, Delhi  
**Duration:** 3 years (2008-2011)
2. **Title:** Cars that drive and park  
**Area :** Mobile Robotics  
**Amount:** 26 Lakhs  
**Sponsoring Agency:** Department of Science and Technology, Delhi  
**Duration:** 3 years (2014-2017)

## **Publications:**

1. **International Journals:** 05
2. **IEEE Xplore:** 15
3. **National Journals:** 03
4. **International Conferences :** 22
5. **National Conferences :** 02

## **Books Published:**

### **Book Chapter:**

- Fractional-order PI controller for Permanent Magnet Synchronous Motor: A design based comparative study” Ujjwala Thakar, Vrunda Joshi, Utkal Mehta Vishwesh Vyawahare, to be published in Linear and Nonlinear Fractional Order Systems: Analysis and Applications, Elsevier.

## **PG/PhD guidance:**

### **PhD guidance:**

<b>Sr. No.</b>	<b>Name of the student</b>	<b>Title of thesis</b>	<b>Status</b>
1	Ujjwala Thakar	Fractional order based advance	Ongoing

		control of PMSM motor	
2	Aishwarya Apte	Disturbance observer based control of PMSM motor	Ongoing

PG Students Guided - ME (Electrical Power system) : 09 Completed , 05 Ongoing

### **Professional Society Memberships:**

ISTE-Life membership number: LM26385

### **Recognitions/ Awards:**

- Member, Academic Council of Savitribai Phule Pune University
- Adhoc Chairman, Board of Studies, Electrical for Railway Engineering under Savitribai Phule Pune University.
- Recognized Ph.D. Guide in Electrical Engineering of Pune University
- Recognized Post Graduate teacher of University of Pune.
- Received prize for best paper presentation at ACODS'2016, at NIT, Trichy.
- The research project "Development of control algorithms for brushless D.C. motor drive" was successfully completed and well appreciated by review committee of R&DE(E), Dighi, Pune, DRDO Lab.
- The faculty team of PVG's COET, working under my leadership was specially Invited for eYantra Symposium eYS2016 on 11-12 April 2016, for winning best team award for TBT-2015 challenge task
- Recipient of URDIP Women Scientist-C scholarship of DST-TIFAC
- First rank at M.E. (Electrical), Pune University , 1994

[Click to View Profile Summary](#)