



# AISSMS

## COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय  
Accredited by NAAC with "A+" Grade



## Department of Electrical Engineering Faculty Profile

### Dr. Aishwarya Apte

PhD (Electrical Engineering)  
Assistant Professor

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🌐 <https://scholar.google.co.in/citations?user=8nTGMEgAAAAJ&hl=en>

🌐 <https://www.linkedin.com/in/xxxx-xxxxxx-93b335b5/>



### ResearchAreas/ Areas of Interest

Electric Drives, PMSM, BLDC, Electric Vehicle

### Personal Details

**Date of Birth :** 25/ 09 / 1969

**Domicile:** Maharashtra

**Gender :** Female

**Blood Group:** O+ve

**Contact Details:** AWAS, 2,Sunita Society, S.No.19/2,Erandwane, Pune – 411004

### Academic Background

S. NO.	Qualification	Specialization	University	Class/Grade	Year of Passing
1	Ph.D.	Electrical Engineering	SPPU,Pune	--	Dec.2019
2	M.E.	Electrical Control System.	Pune	I <sup>st</sup>	May 2005

3	B.E.	Electrical Engineering	Amravati	1 <sup>st</sup>	June 1990
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### Work Experience

S. No.	Type of Experience	Years	Months
1	Teaching	25	09
2	Research	00	00
3	Industry	--	--
4.	Others	--	--
<b>Total</b>		<b>25</b>	<b>09</b>

### Subjects/Courses Taught

S. No.	Subject	UG/PG	Class (FE/SE/TE/BE/ME)	No of times Subject Taught
1	Advance Microcontroller & Its Applications	UG	TE (Electrical)	05
2	Control System 1	UG	TE (Electrical)	05
3	Elective I	PG	FYME (Electrical)	06
4	Power Converters II	PG	FYME (Electrical)	03
5	Power Electronics	UG	TE (Electrical)	04
6	Control System II	UG	BE(Electrical)	05

### Research Publications

	National	International	State	SCI/ Scopus Indexed	UGC Approved
<b>Journals</b>	-	03	-	01	03
<b>Conferences</b>	01	05		--	--

## Publication Details (Journals)

S. No	Document Details	Authors	Year	Source Details	ISBN/ISSN	Publisher
1.	Disturbance Observer based Sensorless Control of PMSM using Integral State Feedback Controller	A.A.Apte, V.A.Joshi H.Mehta, ,R.A.Walambe	2020	IEEE Transaction on Power Electronics Volume: 35, (6) , June 2020	ISSN 0885- 8993	IEEE
2.	Disturbance Observer based Speed Control of PMSM Using Fractional Order PI Controller	A.A.Apte, U.S.Thakar,V.A.Joshi	2019	IEEE/CAA Journal of Automatica Sinica vol.6,Issue 1,pp 316-326, January 2019	ISSN 2329- 9266	IEEE
3.	Speed Control of PMSM Using Disturbance Observer	A.A.Apte, V.A.Joshi, R.A.Walambe, A.A.Godbole		IFAC Paper online vol.49 (1),2016		ELSEVIER

## Publication Details (Conferences)

S. No	Document Details	Authors	Year	Conference Details	ISBN	Organised by
1.	Simulation of a permanent magnet synchronous motor using Matlab-Simulink	A.A.Apte, R.A.Walambe, V.A.Joshi, K.Rathod, J.P.Kolhe	2014	IEEE India INDCON 2014		IEEE Pune
2.	Study of sensorless control algorithms for a permanent magnet synchronous motor vector control drive,	R.A.Walambe, V.A.Joshi, A.A.Apte, J.P.Kolhe	2015	International Conference on Industrial Instrumentation and Control (ICIC), 2015		COEP Pune
3.	Disturbance Observer Based Sensor-less Vector Control Drive for			IEEE		

4.	PMSM using EKF  Sensorless Vector Control of PMSM using SMO and NLDO	R.A.Walambe,A.A.Apte, V.A.Joshi A.A.Apte, H.Mehta, V.A.Joshi, R.A.Walambe	2016	Symposium SLED 5-6 June 2016		IEEE section Fiji
5.	Vector Control of PMSM Using TI's Launchpad F28069 and MATLAB Embedded Coder with Incremental Build Approach	H.Mehta, A.A.Apte, Swapnil Pawar, V.A.Joshi	2017	IEEE Symposium SLED Sept. 2017  ICPS Dec.2017		IEEE section Catania Italy  COEP Pune

### PhD / ME / BE Student Guided for Project

Level	Ph.D.	M.E. (PG)	B.E. (UG)
No. of Student guided	-	08	150

### Professional Memberships

Professional Body	Level ( National/ International)	Type (Fellow/Life/Annual)	Membership No.
ISTE	National	Life	LM
IE	National	Executive Member	

### Patents/IPR Filed/Granted

S. No	Investigator Details	Title	Year	Status (Filed/Granted)	Details
1	Dr.A.AApte	Permanent Magnet Synchronous Motor Sensorless Vector Control based on Nonlinear Disturbance Observer	2019	Filed TEMP/E- 1/28612/2019- MUM	Applied Indian Patent

## Research Grants Received

S. No	Program	Duration	Funding Agency	Grant Amount
1.	Research Proposal	2009-11	BCUD, SPPU, Pune	INR1.5 Lacs

## Details of Workshop/STTP/FDP/Seminar / Conferences Organized

S. No	Title	Type	Duration	Level (State/National/ International)	Sponsoring Agency
01	Electric Hybrid Vehicle Hybrid Energy Storage system Technology	FDP	5 days 5/10/2020 to 9/10/2020	National	AICTE India
02	Modern Trends in Energy Systems	FDP	5 days 7/2/2022 to 11/2/2022	National	IEEE, IETE, IE(I)

## Contribution as Resource Person

S. No.	Place/ Organization	Topic	Level(National/Int/ State/Regional)	Date
1.	Govt.Engineering College Karad	Research opportunities in Electrical Engineering, <i>Research Opportunities in Control Of Drives Part II</i>	National Level STTP	9/5/2020
2	College of Engineering Pune COEP	LATEX for Technical Report Writing	State	10/2/2020
3	AISSMS IOIT Pune	As a session Chair at 2 <sup>nd</sup> IEEE International Conference on Emerging Smart Computing and Informatics	International	13/3/2020
4	Sardar Patel College of Engineering and Technology Mumbai	Worked as Technical Committee chair and Session Chair for IEEE conference ICCICT 2021	International Conference IEEE sponsored	27 June 2021

## Details of Workshop/STTP/FDP/Conferences Attended

S. N	Title	Type	Duration	Organizer	Sponsoring Agency
1	Quality Attributes for strategic Improvement of Faculty Productivity	FDP	6 days 3-8 August 2021	Shri Venkateshwara College of Pharmacy Chennai	AICTE
2	Innovative and Inventive Problem Solving	FDP	6-11 July 2021	AISSMSCOE Pune	AICTE
3	Electric Vehicle	FDP	6 days 24-29 April 2020	ARAI Pune	Self
4	Advanced Teaching Tools, Techniques and Methodologies for Outcome based Education	FDP	5 days 1-5 June 2020	AISSMS COE	ISTE,IE
5	Modelling and Simulation of Renewable Energy systems using MATLAB	STTP	6 days 3-8 August 2020	MNMJEC Chennai	AICTE
6	Optimal Operation of Power System Incorporating Renewable Energy sources	STTP	6 days 27 July – 1 August 2020	Sagar Institute of Research and Technology Bhopal	AICTE
7	Control System	STTP	2016	IIT Kharagpur	MHRD
8	Control System	Winter School	2017	IIT GandhiNagar	MHRD
9	Indian Control Conference	Conference	2015	IIT Madras	ICC

## Major Professional Responsibilities Handled

S. No.	Role and Responsibilities
1.	NBA Co ordinator of Department
2.	ME Co ordinator 2011-13
3.	Department Project Co ordinator
4.	Lab Incharge

**Declaration:** I hereby declare that all the statement made above are correct to the best of my knowledge and belief.

**Dr.A.A.Apte**

(Name with Signature)