

Mrs.Amruta Prasad Kathe

Present position

Associate Professor

Contact Details(Mention e-mail) – fergusson.edu or despune.org



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Work Experience

- Teaching: 32 years
- Research/Industrial: 12 years

Personal Profile

A hard core teacher who believes teaching is her life-goal and strives to be better every new day.
A ranker through out her educational path.
Disciplined person in life, in general

Course(s) Taught (Only Titles)

1. Semiconductor Devices
2. Analog Electronics
3. Digital Systems and Circuits
4. Instrumentation
5. Electronic Communication Systems
6. Digital Circuit Design
7. Digital Design with Verilog
8. Biomedical Instrumentation

Field of Specialization/Areas of Interests

- Analog electronics
- Digital electronics
- Instrumentation systems

- **Principles of electronic communication**
- **Analog circuit design**
- **Digital circuit design**
- **Biomedical electronic instrumentation**
- **Verilog HDL Programming**

Education

- **Master of Science- (ElectronicScience): 1990**
SavitribaiPhulePune University (SPPU)

Bachelor of Science- (Electronics):1988
S.P.College, Savitribai Phule Pune University (SPPU), Pune

Fellowship/Awards/ Certifications/Achievements/Recognitions

1. State Eligibility Test (SET) qualified in 1994

Member of College Committees/ Professional Bodies and Others

College Level	Professional Bodies	Others
<ul style="list-style-type: none"> • FYAdmission 	BOS of FY, SY, TY	Chairman ICC
<ul style="list-style-type: none"> • FY Coordination 		
<ul style="list-style-type: none"> • DIQAC member 		
<ul style="list-style-type: none"> • FY, TY paper setting and Evaluation 		
<ul style="list-style-type: none"> • FY, SY, TY curricula designing 		
<ul style="list-style-type: none"> • Student Mentoring 		
<ul style="list-style-type: none"> • NAAC coordination committee 		

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Example:

1) Organization : S.P.College

Role : Lecturer

Duration : 1990 to 1992

Responsibilities	<ul style="list-style-type: none"> • FY • SY
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	<ul style="list-style-type: none"> • TY
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2) Organization : Fergusson College

Role : Lecturer, Lecturer in Senior grade, Lecturer in Selection grade, Associate Professor

Duration : 1992 onwards

Responsibilities	<ul style="list-style-type: none"> • FY • SY • TY • FY, SY, TY Inchargeship • Departmental IQAC member • Chairman, ICC
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Research Projects

Title of the Project	Name of Funding Agency	Amount(Rs)	Duration (Year) (From To)	Type (Minor/Major)	Outcome
4 Channel ECG Monitoring System	UGC	Rs.97,000/- approx	2003 to 2005	Minor	3 research papers and 4 channel ECG monitoring system; extendable to 12

Research Publications in National and International Journals

Example:

Kashyap, R.S., **Kainthla, R.P.***, Saibal K. Biswas, Agarwal, N.P., Chandak, N.H., Purohit, H.J., Deopujari, J.Y., Taori, G.M., and Dagainawala, H.F., Rapid diagnosis of tuberculous meningitis using the Simple Dot ELISA method. *Med.Sci.Monit* 2003; 9(11): MT123-126.

1. **A. P. Kathe***, P.N.Kathe, Dr.A.D.Shaligram @ National seminar on Physics and Technology of sensors at University of Pune, February-2006 – Signal Conditioning for biomedical signals
2. **A. P. Kathe***, P.N.Kathe, Dr.A.D.Shaligram, S. S. Bhagwat, J.V.Khedkar @ National seminar on advance software techniques at Sangamner, January-2006 – Bioinformatics-New horizon
3. S. S. Bhagwat, **A. P. Kathe** @ National seminar on advance software techniques at Sangamner, January-2006
4. S.S.Bhagwat, **A. P. Kathe**, J.V.Khedkar @ National seminar on Promotion of basic sciences as a career at Modern College, Pune, December-2002

5. **Mrs.A.P.Kathe***, Mr.P.N.Kathe, Mr.S.S.Bhagwat @ National Conference on advancement in Electronics & its interdisciplinary applications, September 2014 - Blu-ray Disc:New Trend in Optical Disc Format
6. **Mrs.A.P.Kathe***, Mr.P.N.Kathe, Mr.S.S.Bhagwat @ National Conference on advancement in Electronics & its interdisciplinary applications, September 2014 - BLDC-New Age DC Motors and Their Control System Design

Participation in Conferences/Seminars/Symposia/Workshop:

1. Example:

Sonali MBhansode, Gaurav V Naik, Screening of *Semecarpus anacardium* extracts for assessing antioxidant, anti-arthritis and DNA damage protection activity, Regional Research Conference “**Innovation- 2015**”, DES Fergusson College, Pune, June 2015

1. International Conference on lasers and advanced materials-Garware College, March, 2010
2. International Conference on Perspective of Computer Confluence with Sciences-Wadia College, December, 2012
3. National seminar on Physics and technology of sensors: WSN, University of Pune, March, 2010
4. National Conference on Sensor Networks and Embedded Systems- Garware College, February, 2011
5. National Conference on Biodiversity Monitoring and Research Fergusson College, December, 2012
6. Participated in the national seminar on sexual harassment at workplace (in collaboration with FTII, Pune) July, 2018
7. participated in the One Day National Webinar on “Preventive Measures for Cyber Threats in Virtual Learning Environment” organised by Department of Computer Application and Department of Mathematics held on 15, 2020.
8. Participated in one day National level webinar on “IoT: New Era of Digitization” held on January, 2022; organized by Dept. of Electronic Science, Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati in association with R.U.S.A.
9. Participated in one day National level webinar on “IoT based farming: Technologies, Practices and Future Direction” held on February, 2022; organized by Dept. of Electronics, Mahatma Gandhi Shikshan Mandal’s Arts, Science and Commerce college Chopda, Jalgaon, Maharashtra
10. Participated in the National Level Webinar on “Introduction to Robotics and Programming PUMA Robot” jointly organized by MGVS’s BOS in Electronic Science, Department of Electronic Science and Internal Quality Assurance Cell (IQAC) of this college on February, 2022
11. Actively participated in the National Level webinar on “Introduction: Differences and Applications of Augmented versus Virtual Reality” jointly organized by Department of Electronic Science, MGVS’s BOS in Electronic Science, and Internal Quality Assurance Cell (IQAC) of the college on February, 2022
12. Conference on autonomy to colleges & role of IQAC- Fergusson College September, 2013
13. Seminar on role of advanced sensors in the development of smart city-Modern College, Ganeshkhind, Pune September, 2016
14. Workshop on IOT, MATLAB, Simulink and applications- Garware College January, 2018
15. ARM microcontroller Applications- Fergusson College April, 2017
16. Training program on use of ICT for effective teaching- Fergusson College June, 2017

17.Participated titled in one day Faculty Development Program Digital Smart Teacher #1 Workshop Organised by Vidyasagar Academy Akola on July,2020

Events Organized/Coordinated:

Sr.No	Name of the Event	Name of organizing Institute/ College/University	Nature of contribution	Dates
1.	Conference on Advances in Electronics & its interdisciplinary applications	Fergusson College	Resource person, Coordination committee, Managing committee	19-20 September, 2014
2.	5 th Bharatiya Vigyan Sammelan	Fergusson College	Resource person, Coordination committee, Managing committee	11-14 May, 2017
3.	Workshop on Mentoring Skills	Fergusson College	Resource person, Coordination committee, Managing committee	15/8/2010
4.	Workshop on Teaching Methodology for Matlab and C	Fergusson College	Resource person, Coordination committee, Managing committee	8/1/2011
5.	Seminar on Vedic Science	Fergusson College	Resource person, Coordination committee, Managing committee	10-11 January, 2012
6.	Workshop on Examination Reforms – UGC XI Plan	Fergusson College	Resource person, Coordination committee, Managing committee	2-17 April, 2012
7.	Workshop on Promotion of Excellence in Electronics Science	Fergusson College	Resource person, Coordination committee, Managing committee	24/8/2013
8.	Workshop in research planning and technical Writing	Fergusson College	Resource person, Coordination committee, Managing committee	13-14 January, 2014

9.	Pre-conference workshop on Robotics-	Fergusson College	Resource person, Coordination committee, Managing committee	18/9/2014
10.	DBT star college program-Hand-on Experience With Sensors, Interfacing and Signal Conditioning	Fergusson College	Resource person, Coordination committee, Managing committee	14 to 23 January, 2015
11.	Organized a half day programme in association with Cyber Peace Foundation for creating awareness in girl students regarding Digital Empowerment of Women	Fergusson College	Resource person, Coordination committee, Managing committee	24 August, 2018
12.	Organized a program to spread awareness regarding 2013 act for prevention, prohibition and redressal of sexual harassment	Fergusson College	Resource person, Coordination committee, Managing committee	5 th March, 2019
13.	Organized three awareness programs regarding sexual harassment at workplace	Fergusson College	Resource person, Coordination committee, Managing committee	27 th and 28 th August 2019
14.	Member of the organizing team of women empowerment program "Adeeshakti",	Fergusson College	Resource person, Coordination committee, Managing committee	22 nd February, 2020
15.	Summer School/Workshop on "Current trends in Transdisciplinary Electronic Systems(CTTES)	Dept. of Electronic- Science, Fergusson College under UGC STRIDE Component-I	Resource person, Coordination committee, Managing committee	18/7/2022 to 23/7/2022

Additional skills/Activities

Course Content Developed (e-content)

- e-content developed for e-pg-pathshala project,
- Various courses of FY SY and TY for online teaching
- Practical handbooks for FY SY and TY

Consultancy Services

