

Mrs. Namrata Aditya Gaikwad

M.Sc (Physics), NET, SET.

Mob : +91 – 8788330788

Email : namratajk1599@gmail.com

Address : Shahunagar, Hupari.

Tal- Hatkanangale, Dist-Kolhapur

PIN- 416203

**Academic Details**

June 2019	Pursuing PhD in Physics at Department of Physics Shivaji University, Kolhapur	
June 2018	M. Sc (Physics) , Specialisation: Biophysics Department of Physics, Savitribai Phule Pune University, Pune	
December 2017	Qualified JOINT UGC-CSIR TEST for LS (NET) Conducted by CSIR HRD group	AIR 147
May 2016	Qualified SET EXAMINATION (for Assistant Professor) Conducted by Savitribai Phule Pune University.	
2011- 14	B.Sc (Physics), The New College, Kolhapur	87.48%
2011	HSC , Parisanna Ingrole Junior College, Hupari Maharashtra State Board	74.67%
2009	SSC , The New English Secondary School, Hupari. Kolhapur Divisional Board	86.15%

Work experience

March'20	Started working as Assistant Professor at DR. PATANGRAO KADAM MAHAVIDYALAYA, RAMANANDNAGAR (BURLI)	
September' 19	Started working as Assistant Professor (Contractual basis) at DEPARTMENT OF PHYSICS SHIVAJI UNIVERSITY, KOLHAPUR .	
July'19 -	Started working as Assistant Professor (CHB) at RAYAT SHIKSHAN SANSTHA'S RAJARSHI CHHT. SHAHU COLLEGE, KOLHAPUR .	
July '18	Worked as Physics Faculty for CBSE 11 th – 12 th at Armed Forces Preparatory Institute, Peth wadgaon, Kolhapur - 416 122	
August'16	Worked with Mindscape and My Tutor as a tutor for students of CBSE ,ICSE and state board.	

Academic ProjectsNov'16-May'17 **Title of Project– The Effect of Sound Stimulus on Electroencephalogram (EEG)**

- Brief outline of the project–

This Project was about studying effect of different intensities of sound stimulus on

electrical activity of human brain. The experimental procedure involved electrode placing on skull of subject by international 10-20 system on temporal region and using reference and ground. The device used was **MAXIMUS 32** (EEG). The sound stimulus used was 'Haryanvi Dhol' rhythm. The softwares used were **ACQUIRE** (to acquire data recording of subject) and **ANALYSIS** (to analyse the recorded data). To elaborate the study work, method of '**POWER SPECTRAL ANALYSIS**' was used.

• Significance of the project work-

This project work concluded that the sound of higher intensity resulted in increase of beta waves power whereas alpha wave power was found to decrease. This clearly indicated that high intensity sound (>90dB) is harmful to human auditory system even if it is low frequency sound (Haryanvi Dhol, 3-4 Hz).

Technical Skills

Softwares	ACQUIRE, ANALYSIS.
Computer languages and courses	• Fortran 90 • MS-CIT (2009).
Other	• Fluent communication skill • Sound MS office Presentation skill • Passionate about teaching

Additional Information/ Achievements

2026	Registered patent entitled " Device for analysing soil components"
2023	Filed patent entitled " A method of preparation of terminalia catappa doped lanthanum strontium magnetite materials electrode for super capacitor application" .
2022	Filed patent "A method of preparation of terminalia catappa doped aluminium zinc phosphate based electrode for supercapacitor application."
2022	Received grant of Rs. 90000/- from Research Initiation Scheme Shivaji University Kolhapur for Minor Research Project entitled Studies on ZnO Nano-fertilizers for enhancing crop nutrition leading to enhanced Morphological porperties (Peanut and Spinach)