

Faculty Profile

Name : Dr.Pratiksha Ramu Demanna
Designation : Assistant Professor
Department : First Year B.Tech.
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Educational Qualification:-

Sr.No	Degree	University	Class
1.	Ph.D.	Shivaji University Kolhapur	Awarded
2.	SET	Savitribai Phule Pune University, Pune	Qualified
4.	M.Sc. Mathematics	Shivaji University Kolhapur	First class with distinction
5.	B.Sc. Mathematics	Shivaji University Kolhapur	First class with distinction

Professional experience:- Total experience in years: **08 Years**

Teaching:-03 years Industrial:- Nil Research:-05years

Sr. No.	Organization	Post	Period
1.	Shri. Balasaheb Mane Shikshan Prasarak Mandal Ambap's Ashokrao Mane Group of Institutions, Vathar.	Assistant Professor	24/04/2023toTill date
2.	Shivaji University Kolhapur.	Research Fellow	18/01/2020to 17/01/2023
3.	Shivaji University Kolhapur.	DST -PURSE Research Assistant	18/12/2018to 17/11/2019
4.	Mahavir Mahavidyalaya Kolhapur.	Assistant Professor	01/07/2018to 30/11/2018
5	SIT Polytechnic Yadrav Ichalkaranji.	Lecturer	04/05/2017to 16/12/2017

Subjects Taught:-

Sr.No.	Undergraduate Subjects		
1.	Basic Mathematics I	2.	Ordinary differential equations
3.	Engineering Mathematics II	4.	Engineering Mathematics III
5.	Probability and Statistics	6.	Probability Theory and Random Processes
Sr.No.	Post-Graduate Subjects		
1.	Advanced Discrete Mathematics	6.	Graph Theory
3.	Discrete Mathematics Structures	8.	Field Theory
5.	Algebraic Number Theory	10.	Mathematical Foundations

Research Area of Interest:- Applied Mathematics**Paper Presented in National & International Journal & Conference:-03****National Journal:- 02****International Journal:-00**

Sr. No.	Title	Name of Journal	Type*(NJ/IJ)	Details
1	Periodic Indefinite Sturm-Liouville Problems with one turning Point	Journal of Indian Mathematical Society	NJ	Volume:89,Issue:(1-2), Year: 2022 Pages:182-197.
2	Periodic Sturm-Liouville Problem Involving Transmission Condition	International Journal of Research and Analytical Reviews	NJ	Volume:9,Issue:3,Year: 2022 Pages:159-169

Paper Presented in National & International Conference:-03

Sl.	Title	Name of Conference & Institute	Type* (NC/IC)	Date
1	Periodic Indefinite Sturm-Liouville Problems With One Turning Point	National Seminar on Algebra-2020	NC	14 th to 15 th February2020.
2	Right Definite Discontinuous Sturm-Liouville Problems with Periodic Boundary Conditions	National Conference on Mathematical Analysis and Applications-2022	NC	21 st to 22 nd March2022.

3	Periodic Sturm-Liouville Problem with Transmission Condition	International Conference on Advances in Computer Sciences ICACS-2022	IC	20to21May2022
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*NC-National Conference IC-International Conference

No. of Project Guide at U.G. Level: - Nil

Mini Projects : Nil

Expert Lectures Delivered as a Resource Person:-03

Sr. No.	Title of lecture	Title of Event	National/ International	Institute
1	Mathematics with Scilab	Value added program on Computational Mathematics with MATLAB and SCILAB	National	Dept. of Mathematics, Shivaji University, Kolhapur.
2	Plotting in Scilab	Diploma and Advance diploma Courses in Mathematics.	National	YCIS, Satara.
3	Mathematics with Scilab	Value added course on MATLAB and Scilab	National	Dept. of Mathematics, Shivaji University, Kolhapur.

STTP/FDP/Workshops/Attended/Participated:-01

S.N	Title	Organiser	Duration
1	International Faculty Development program on Vedic Mathematics and applied sciences	Woxen University, Hyderabad.	14 th to 18 th Oct. 2023.
2	5 - days International Faculty Development Program on "Exploring Research Frontiers in Dynamical Systems".	Department of Mathematics Jointly with School of Emerging Sciences & Technology, Gujarat University.	20 th to 24 th May 2024.
3	National seminar on Differential Equations and Dynamical Systems	Department of Mathematics, Shivaji University Kolhapur.	27 th to 28 th Feb. 2017.
4	National Conference on Advances in Differential Equations	Department of Mathematics, Vivekanand College Kolhapur.	29 th Sept. 2018.
5	STTP on Design of Experiment and Optimization	AMGOI, Vathar sponsored by DBATU, Lonere.	11 th to 16 th Dec. 2023
6	Two days International Symposium on PDE & Geometric Analysis	Department of Mathematics of K. J. Somaiya College of Science & Commerce, Mumbai	18 th to 19 th March 2022.

7	One Day Workshop on: Fractional Differential Equations: Analysis and Applications	Department of Mathematics, Shivaji University Kolhapur.	9 th March 2020.
8.	One day online workshop on new syllabus M.Sc Mathematics part II semester III	Department of Mathematics, Shivaji University Kolhapur.	30 th Jan. 2021.
9.	Workshop on Research as Career: Opportunities Abroad and Associated Preparations	Shivaji University, Kolhapur.	13 th Feb. 2021.
10	Workshop on "NBA Accreditation Preparation	Ashokrao Mane Group of Institutions Vathar Tarf Vadgaon.	4 th January 2026.
11	Workshop on " NEP 2020: Guidelines for syllabus Design	Ashokrao Mane Group of Institutions Vathar Tarf Vadgaon.	4 th January 2026
12.	One week faculty development program on "Advances, Challenges and Research Trends in Electrical vehicle Technology"	Ashokrao Mane Group of Institutions Vathar Tarf Vadgaon.	27 th January 2026 to 31 st January 2026.
13	NEP Orientation and Sensitization Programme	MMTU	5 th February 2026 to 13 th February 2026.
14	FDP on Applied Linear Algebra in AI and ML	NPTEL	January 2026 to April 2026.

- **NPTEL Certification:-** Successfully completed the 12-week NPTEL Online Certification Course on "Applied Linear Algebra in AI and ML" with a score of 62%.
- **Patents Published:**
- **Programs Organized:-**

SI.	Name of Program	Institute	Date
1	FDP on Ancient and Computational Mathematics	AMGOI, Vathar.	20 th Feb. 2024

Departmental Responsibilities:-

1. NAAC Criteria 2 Coordinator (2023-24)
2. NAAC Criteria 6 coordinator (2025-26)
3. Aptitude Club coordinator (2023-24)
4. Mentoring Coordinator (2023-24)
5. Timetable Incharge(2023-24)
6. Feedback Coordinator (2023-24)
7. Parent-Teacher Meet Coordinator (2023-24)

Other Experience/Responsibilities If Any:-

Social Contribution If Any:-

Professional Membership If Any:- Life member of Indian Mathematical Society (L/2020/11)

