

Vrushali Ashutosh Limaye

Present position

- **Assistant Professor**

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Work Experience

- **Teaching: 16 years**
- **Research: 1 Year**

Personal Profile

Academic:

- 16 years (From June 2006)
- (1year UG + 15 years PG)
- Conducted a course on Cryptography in SPPU from January 2018 to May 2018.
- Conducted a course on Computer Graphics in Defense Institute of Advanced Technologies, Khadakwasala, Pune

Research:

(Presented research 3 papers in National conference, secured gold medal for one research paper, Presented 1 research paper in International Conference.)

Filed a Patent on River Cleaning Robot.

Pursuing PhD in Mathematics from Birla Institute of Technology, Hyderabad Campus.

Course(s) Taught (Only Titles)

1. Pure Mathematics:

- a. Group Theory
- b. Ring Theory
- c. Field and Galois Theory
- d. Real Analysis
- e. Complex Analysis
- f. Linear Algebra
- g. Topology
- h. Functional Analysis
- i. Measure Theory
- j. Vector Calculus
- k. Graph Theory

2. Applied Mathematics:

- a. Discrete Mathematics
- b. Cryptography
- c. Digital Image Processing
- d. Numerical Analysis
- e. Operations Research and Optimization Techniques
- f. Ordinary Differential Equations
- g. Computer Graphics
- h. Soft Computing

Field of Specialization/Areas of Interests

- Pure Mathematics:
 - a. Group Theory
 - b. Ring Theory
 - c. Field and Galois Theory
 - d. Commutative Algebra
- Applied Mathematics
 - a. Cryptography
 - b. Digital Image Processing
 - c. Computer Graphics
 - d. 3D printing
 - e. Soft Computing

Education

- **Master of Science (Mathematics):** 2006
Department Of Mathematics, Savitribai Phule Pune University.
- **Bachelor of Science- (subject name):** 2004
Modern College of Arts Science and Commerce, Shivaji Nagar, Pune

Fellowship/Awards/ Certifications/Achievements/Recognitions

1. National Board of Higher Mathematics Fellow for M.Sc. (2004-2006)
2. SET (2006)

Member of College Committees/ Professional Bodies and Others

College Level	Professional Bodies	Others
<ul style="list-style-type: none"> • Worked PG coordinator for the course M.Sc.(Industrial Mathematics with Computer Applications from 2016 till December 2021) 	<p>Life Member of IAIAM, Indian Academy of Industrial and Applicable Mathematics.</p>	
<ul style="list-style-type: none"> • Worked as a steering Committee member of NAAC Cycle 3 (Criterion 4) 		
<ul style="list-style-type: none"> • Working as a team member of NAAC Cycle 4 (Criterion 4) 		
<ul style="list-style-type: none"> • Core committee member of Dr. P. C. Shejwalkar Incubation Centre 		
<ul style="list-style-type: none"> • Advisory Committee member of Dr. P. C. Shejwalkar Incubation Centre 		
<ul style="list-style-type: none"> • Team Member of STRIDE committee. 		
<ul style="list-style-type: none"> • Department Coordinator for PMRF Sessions 		

Employment History

Research Projects

Title of the Project	Name of Funding Agency	Amount (Rs)	Duration (Year) (From To)	Type (Minor/Major)	Outcome

Research Publications in National and International Journals

Participation in Conferences/Seminars/Symposia/Workshop:

1. Tannisha Kundu, Vrushali Limaye, Digital Image Processing Image interpolation and Zooming, National Conference on Advanced Computing and IT Applications, KGiSL institute, Coimbatore, ISBN: 978-81-910178-2-3, ISSN: 2229-7812
2. Vrushali Limaye, Poorva Sontakke, Designing with Spirograph, Research Poseter, National Conference in Emerging Trends in Computer Science and Applications NCETCSA-2013.
3. Vrushali Limaye, Tannisha Kundu, MULTIPLICATION OF INTEGERS USING A TURING MACHINE, Recent Advances in Mathematics and its Applications (RAMA 2013), ISM Dhanbad.
4. Shriya Bhonde, Vrushali Limaye, ENCRYPTION AND DECRYPTION USING GRAPHICAL AND MATHEMATICAL MEASURES, 8th National Conference on Recent trends in Computer Science and Applications, Indira College, Pune, 19th -20th December 2019.
(Secured GOLD Medal in this Conference)
5. Pooja Vairagkar, Sanjana Lawar, Vrushali Limaye, Analysis of psychological effects during lockdown due to Covid19 pandemic considering various factors and using Machine Learning and Statistical methods, 2nd International Conference on smart and intelligent learning for information optimization, organized by CONSILIO intelligence Lab, Noida and Jaypee University, Goa October 24-25 2020.

Events Organized/Coordinated:

Sr. No	Name of the Event	Name of organizing Institute/ College/ University	Nature of contribution	Dates
1.	National Conference in Emerging Trends in Computer Science and Applications NCETCSA-2013	Department of Computer Science, Fergusson College, Pune	Organizing Committee member	

Additional skills/Activities

- Worked for JEEVIT NADI Project for a group of individuals from diverse professional fields who are passionate about environment conservation. A new app providing public involvement in river protecting is created by Students of M.Sc.(IMCA) Department of Mathematics with Jeevit Nadi team. The application has maps showing the blue and red lines and an alert when the water is released.
- Working for SMART Campus project
- Working for 3D Printing Project.

Course Content Developed (e-content)**Consultancy Services**

