


# Nanasaheb Mhatarba Phatangare

---

## Present position

- Assistant Professor

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

 020-7559315146

 [nanasaheb.phatangare@fergusson.edu](mailto:nanasaheb.phatangare@fergusson.edu), [nmphatangare@dspune.org](mailto:nmphatangare@dspune.org)



## Work Experience

- Teaching: 16 years
- Research/Industrial: 5 years

## Personal Profile

### Academic:

- 16 Years (since June 2006)
- 1 Year PG, 15 Years UG
- Worked as a Students development offices from June 2016 to April 2018
- Member of Board of studies of Mathematics

### Research:

- Paper Published:  
Bifurcations of limit cycles in piecewise smooth Hamiltonian system with boundary perturbation, *Differential Equations And Applications*, volume 14, Number 4 (2022), 499-524.  
<http://dx.doi.org/10.7153/dea-2022-14-34>
- Two research papers presented in international conferences.

## Course(s) Taught (Only Titles)

### 1. Pure Mathematics:

- Calculus
- Real Analysis
- Linear Algebra
- Algebra
- Geometry
- Complex Analysis

- Metric Spaces
- Number Theory

## 2. Applied Mathematics

- Ordinary Differential Equations
- Partial Differential Equations
- Dynamical Systems
- Integral Transforms

### Field of Specialization/Areas of Interests

- Differential Equations and Dynamical systems
- Real Analysis
- Multivariable Calculus

### Education

- **Master of Science (Mathematics): 2006**  
Department Of Mathematics, Savitribai Phule Pune University.
- **Bachelor of Science (Mathematics): 2004**  
Sangamner College, Sangamner

### Fellowship/Awards/ Certifications/Achievements/Recognitions

1. 'Wrangler Paranjape Mathematics Prize' for securing highest number of marks in M. Sc. Mathematics, Savitribai Phule Pune University (2006).
2. 'The Garware Science Prize' for securing highest number of marks in M. Sc. Mathematics from Science, Savitribai Phule Pune University (2006).

### Member of College Committees/ Professional Bodies and Others

College Level	Professional Bodies	Others
<ul style="list-style-type: none"> <li>• Member of Admission Committee</li> </ul>	1. Indian Mathematical Society (IMS), Life member	Member BOS Mathematics Dept.
<ul style="list-style-type: none"> <li>• Worked in Feedback Committee</li> </ul>		
<ul style="list-style-type: none"> <li>• Departmental Examination committee</li> </ul>	2. The Indian Science Congress Association (ISCA), Life member	
•	3. Indian Academy of Industrial and Applicable Mathematics (IAIAM), Life member	
•		
•		
	4. Life Member of Indian Society of Technical Education (LMISTE)	

## Employment History

1) **Organization** : New Arts, Commerce and Science College, Ahmednagar

**Role** : Lecturer.

**Duration** : 6 August 2006 to 30 April 2007

<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Examinations.</li><li>• Conference organizer</li></ul>
-------------------------	--

2) **Organization** : JSMP's Imperial College of Engineering, Pune

**Role** : Lecturer

**Duration** : 15 July 2007 to 23 November 2008,

<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Admission committee.</li><li>• Examinations</li></ul>
-------------------------	---

3) **Organization** : MAEER's Arts, Commerce and Science College, Pune

**Role** : Lecturer

**Duration** : 24 November 2008 to 22 January 2010.

<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Admission committee.</li><li>• Examinations</li></ul>
-------------------------	---

4) **Organization** : Fergusson College (Autonomous), Pune

**Role** : Assistant Professor

**Duration** : Pune, 23 January 2010 to till date

<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Admission committee.</li><li>• Examinations</li><li>• Member of BOS</li><li>• Students Development Officer</li><li>• Feedback Committee member</li></ul>
-------------------------	--

## Research Projects

<b>Title of the Project</b>	<b>Name of Funding Agency</b>	<b>Amount (Rs)</b>	<b>Duration (Year) (From To)</b>	<b>Type (Minor/Major)</b>	<b>Outcome</b>
Study of ring of integers in quadratic number fields	BCUD, SPPU	110000	2014-2016	Minor	Successfully submitted

### Research Publications in National and International Journals

1. Bifurcations of limit cycles in piecewise smooth Hamiltonian system with boundary perturbation, *Differential Equations And Applications*, volume 14, Number 4 (2022), 499-524. <http://dx.doi.org/10.7153/dea-2022-14-34>

### Participation in Conferences/Seminars/Symposia/Workshop:

1. Instructional School for Lecturers, Nainital University Almora, September, 2014
2. Instructional Workshop on Cryptography, Cochin University of Science And Technology, May, 2014.
3. Teachers Enrichment Workshop, Bhaskaracharya Pratishthan, Pune, Nov.14
4. Teachers Training Workshop, S. P. College Pune, 2012.
5. A Symposia on Number Theory, Bhaskaracharya Pratishthan Pune, 2011
6. 139th Orientation Programme, Academic Staff College SPPU Pune, March 2011
7. Refresher Course in Mathematics, Department of Mathematics, SPPU, Nov. 2015
8. Restructuring of F Y B Sc Syllabus, S N Arts, B N Sarda, D J Malpani College Sangamner, 2013
9. Teacher's Enrichment Workshop, Bhaskaracharya Pratishthan, Pune 2013.
10. Restructuring of S Y B Sc Syllabus, Abasaheb Garware College Pune, 2014
11. Innovation 2015, Fergusson College, Pune, 2015.
12. Instructional School for Teachers, Bhaskaracharya Pratishthan, 2016
13. Presented paper in International Conference on Algebra and Analysis, SPPU, 2017.
14. Science and Engineering Board School on Non-Linear Dynamics 2018, SPPU, 2018
15. One Week Faculty Development Program: Innovative Teaching Skills for Mathematics Teacher, SPPU, 2018
16. A Refresher Course on Calculus, SWAYAM, 2019
17. National Workshop on Differential Equations and Dynamical Systems, SPPU, 2020
18. Two weeks Faculty Development Program (FDP): Empowerment through Digital Technology and E-Learning, SNDT Mumbai, 2020
19. Short term Training Program (STTP): MATLAB based Teaching-Learning in Mathematics, Science and Engineering, RAIT, Mumbai, 2020.

### Events Organized/Coordinated:

Sr. No	Name of the Event	Name of organizing Institute/ College/ University	Nature of contribution	Dates
1	Mathematics That You can Touch	Goethe Institute and Fergusson College Pune	Organizing committee	July 1-10, 2013

**Additional skills/Activities**

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

<https://sites.google.com/fergusson.edu/nmphantangare/home>

**Consultancy Services**