

RESUME



Full Name: SOPAN JAGDEVRAO CHAVHAN
Present Designation: Assistant Professor & Head
E-mail id: sjchavhanmath17@gmail.com
Date of Joining: 18, September, 2017
Date of Birth: 01, March, 1991.
Postal Address: Department of Mathematics,
Shri Vyankatesh Art's, Commerce & Science College,
Deulgaon Raja, Dist- Buldana (MH), India -443204.

Academic Record:

Courses	School / Institute	Board / University	Year of Passing	Percentage (%)
Ph.D.	School of Mathematical Sciences	KBCNMU, Jalgaon	Pursuing	---
NET	CSIR-UGC NET	---	2016	115 Marks (AIR- 33)
M. Sc. Mathematics	School of Mathematical Sciences	SRTM University, Nanded	2014	80.20%
B. Sc.	Shri Badrinarayan Barwale College, Jalna.	Dr, B.A.M. University, Aurangabad	2012	87.17%
HSC	P.N. College, Pusad.	Amaravati Board	2009	62%
SSC	Shri Shivaji High School, Mulawa.	Amaravati Board	2007	70.92%
MS-CIT	---	Maharashtra State Board of Technical Education, Mumbai.	2007	88%

Papers Published:

1. **S. J. Chavhan and A. D. Kanwate**, (2018). History and Applications of Matrix in Engineering, International Multilingual Research Journal (ISSN-23199318), Volume 02, Issue 23, 40-44.
2. **S. J. Chavhan**, (2018). Vector Algebra: An overview, International journal of research and analytical reviews (ISSN- 2348-1269), Volume 05, Issue 04, 529-531.
3. **S. J. Chavhan**, (2019). Affine Transformations Cryptanalysis by Using Genetic Algorithm, AJANTA Peer reviewed refereed and UGC listed journal (ISSN-2277-5730), Volume 08, Issue 02, 133-139.
4. **S. J. Chavhan**, (2020). On Study of Some Asymmetric Key Cryptography Algorithms, IJARIE (ISSN (O)-2395-4396), Volume 06, Issue 02, 671-676.
5. **S. J. Chavhan**, (2022). Protocol for Generalized Diffie-Hellman Key Exchange across Non-Commutative Group, Power of knowledge peer reviewed journal (ISSN 2320-4494), Volume 01, Issue 02, 20-25.

Papers Presented:

1. Paper presented in an International conference on mathematical sciences & its applications at School of Mathematical Sciences, SRTM University, Nanded held on 25-27 July, 2022. Entitled with An Improved Key Exchange Protocol Over Non-commutative Ring E_p .
2. Presented paper in National Conference on Algebra, Analysis and Fuzzy Mathematics at Department of Mathematics, School of Mathematical Sciences, KBCNM University, Jalgaon held on 24-25, March 2023. Entitled with The Generalized Key Exchange Protocol Over Non-commutative Groups.
3. Presented a research paper entitled “An Innovative Key Exchange System Using Infinite Groups” in a national conference on Recent Advancement in Pure & Applied Mathematics held on 20 Jan 2024 at Balbhim Arts, Science and Commerce College, Beed.
4. Presented a research paper entitled “ An innovative Polynomial Based Key Exchange Method in Non-commutative Groups” in an international conference on Latest Advances, Contributions and Applications in Non-Linear Analysis held on 13-16, March, 2024 at Gayatri Vidya Parishad College of Engineering (Autonomous), Visakhapatnam.

Delivered Lectures:

1. Delivered lectures on “Fundamental Mathematics” under the Career & Counseling Cell at Shri Vyankatesh College, Deulgaon Raja, Dist. Buldana in 2017, 2018, & 2019.

- Delivered lecture in police pre-recruitment workshop at Shri Vyankatesh College, Deulgaon Raja, Dist. Buldana in 2018.
- Delivered guest lecture on 'The Most Fascinating and Romantic Story in the History of Indian Mathematics' at Dept. of Mathematics, Shri Vitthal Rukhmini College, Sawana, Tq. Umarkhed, Dist. Yavatmal.
- Delivered guest lecture on 'Introduction to Group Theory' at Dept. of Mathematics, Late BSNAG College, Sakharkheda.
- Delivered guest lecture on 'Arithmetic Quantitative Abilities' at Dept. of Mathematics, Shri Dnyaneshwar Maskuji Burungale Science and Arts College, Shegaon, Dist. Buldana.
- Delivered an expert lecture in the subject of group theory in Three Days National Workshop on NET/SET/JAM in Mathematical Sciences, organized by Department of Mathematics, Karmavir Bhavrao Patil College, Vashi.
- Delivered lecture on 'Life Work & Legacy of Ramanujan and Scope of Mathematics' at Department of Mathematics, L.K.D.K. Banmeru Science College, Lonar on the occasion of National Mathematics Day held on 22 December 2023.

Refresher/Orientation Courses:

Sr. No.	Name of the Course / Summer School	Place	Duration	Sponsoring Agency
1	Teacher and Teaching in Higher Education	Online	01 Sept 2019 To 31 Dec 2019	National Testing Agency
2	4-Week Induction/Orientation Program.	Online	4 June to 01 July 2020	Department of Mathematics Ramanujan College, Delhi.
3	Two week refresher course in Mathematics.	Online	16 to 30 march 2021.	Department of Mathematics Ramanujan College, Delhi.

Extention/Dimention/Curricular/Extra Curricular Activities:

- Worked as **"Co-officer in charge"** in B.Sc. I SGBA University exam held in winter 2017.
- Worked as **"Valuation Officer"** in B.Sc. I SGBA University exam held in winter 2017.
- Organized **"State level science exhibition"** at Shri Vyankatesh college, Deulgaon raja.

- Organized Guest lecture on **“Real life applications of Mathematics & Statistics”** for UG students in march- 2018.
- Worked in a Admission Process committee at Shri Vyankatesh college, Deulgaon raja.
- Worked as member of state level poster presentation competition on Save Wildlife Save Ourselves at Shri Vyankatesh College, Deulgaon Raja, Dist. Buldana in 2018.
- Organized National Webinar on ‘Recent Trends in Rough Sets, Fuzzy Set Theory and Material Science’ on 08/07/2020.
- Organized webinar on ‘Basic Concepts in Number Theory’ on the occasion of National Mathematics Day.
- Organized webinar on ‘Complex Analysis’ on the occasion of National Science Day
- Invited as Chief Guest at R. J. international High School, Deulgaon Raja to judge the students projects on the occasion of National Mathematics Day.
- Invited as a subject expert for State Level Seminar Competition on Graduate Level Calculus for UG students on 22 Dec 2021 at Shri Dnyaneshwar Maskuji Burungale Science and Arts College, Shegaon, Dist. Buldana.
- Delivered presidential address in NSS camp at Pimpalgaon Chilamkha.

Conferences/seminars/workshops attended:

- National Workshop on Linear Algebra by National center for Mathematics, A Joint center of IIT Bombay and TIFR Mumbai (23 Nov-05Nov 2015).
- "Summer Program in Mathematics (SPIM)" by Harish- Chandra Research Institute, Allahabad (17 June-05 July 2013).
- "National Workshop on MATLAB software and its applications" by SRTM UNIVERSITY, NANDED in collaboration with math works Bangalore and ADCC info -cad, Nagpur (28 Jan 2014).
- "National Workshop On Group Theory" by school of mathematical sciences, SRTM UNIVERSITY, NANDED and Marathwada Mathematical Society.
- “National Workshop on Recent Trends in Statistics and Their real life applications” by school of mathematical sciences, SRTM UNIVERSITY, NANDED and Ramanujan Mathematical society.
- "FIFTH SCIENCE CONCLAVE /INSPIRE INTERSHIP PROGRAM" by IIIT, ALLAHABAD (Dec 08-14, 2012).

- "Second Indian Student Parliament" by MAEER's MIT School of Government Pune (Jan 10-12, 2012).
- "Seminar Computation in mathematics" by Marathwada Mathematical Society, Aurangabad (Jan 02-03,2014).
- National Workshop on "Mathematical Modeling of Uncertainty" by school of mathematical sciences (Nov 27, 2012).
- "19th National Seminar on Physics & Technology of Sensors NSPTS" by department of Physics, SGGSIET, Nanded (March 03-05, 2016).
- Attended National Workshop on Number Theory organized by R.G. Rathod college, Murtizapur, Dist. Akola.
- Participated in two days National Conference on Recent Advances in Science and Technology At GSG College, Umarkhed, Dist-yavatmal.
- Attended one day workshop on "Awareness for Autonomy of Colleges, NAAC revised accreditation framework and NIRF" Jointly Organized by Sant Gadge Baba Amravati University IQAC & Joint Director Higher Education Amravati Division held on 17 Feb 2020.
- Successfully completed One Week Pedagogical Training for Teachers on Tools for Online Teaching Learning and Evaluation, from 1 July to 6 July 2020, organized by School of Mathematical Sciences, Swami Ramanand Teerth Marathwada University, Nanded.
- Participated in One Week Faculty Development Programme on 'Improving Teaching Learning Experience using Best Practices' held online from 15th June 2020 to 19th June 2020 Dwarkadas J. Sanghvi College of Engineering, Mumbai.
- Participated in National Conference on Algebra, Analysis and Fuzzy Mathematics, held on March, 24-25,2023 organized by Department of Mathematics, School of Mathematical Sciences, KBCNM University, Jalgaon.
- Attended online one day national e-workshop on "Research Methodology in Mathematical Sciences" organized by the dept. of mathematics of Rajarshi Shahu Mahavidyalaya, Latur on dated 14/03/2022.
- Successfully completed the programme MS-DEED Level 1 online workshop on introduction to innovative pedagogies for UG teachers from 27- 29, Jan, 2022 at IISER, Pune.
- Completed one week FDP on Innovations: Teaching, Learning & Research from 1-7, June 2022 organized by Shree Shivaji College, Rajura, Dist. Chandrapur.

- Successfully completed One Week FDP on ICT Tools for Effective Teaching Learning, from 11 July to 16 May 2020, organized by School of Mathematical Sciences, Swami Ramanand Teerth Marathwada University, Nanded.

Teaching Experience:

Sr. No.	Name of college	Duration
1	Art, Commerce and Science College, Veshvi, Alibag	01 Year
2	Shri Guru Gobind Singhji Institute of Engineering & Technology, Vishnupuri, Nanded. (Autonomous)	01Year
3	Shri Vyankatesh Art's, Commerce and Science, Deulgaon Raja, Buldana.	2017 Onward

Subjects Taught:

1. Modern Algebra
2. Calculus
3. Differential equations
4. Linear Algebra
5. Mathematical Analysis
6. Number Theory
7. Algebra and Trigonometry
8. Vector Analysis and Geometry
9. Mathematical Methods
10. Classical Mechanics

Sopan Chavhan

(Assistant Professor & Head Dept. of Mathematics)