

## Somaiya Vidyavihar University

<b>Name:</b> Jitendra Hemant Karekar			<b>E-mail:</b> jitendra.karekar@somaiya.edu		
<b>Contact No:</b> 9730846604					
Department/Section: Science and Humanities/ Mathematics					
College: K J Somaiya College of Engineering					
DOJ Somaiya:	Career Experience: 13 Yrs	Industry Experience: -- Yrs	Teaching Experience: 13 Yrs		
18/12/2017					
Present Academic Designation: Assistant Professor			Present Administrative Designation: --		

<b>Area of research/specialization and Courses Delivered</b>
Research domain/interests/areas 1. Data science and Machine Learning 2. Active learning and Teaching-Learning evaluation in Mathematics Education Courses Delivered 1. Applied Mathematics I and II 2. Applied Mathematics III and IV

Recognition as a teacher by any University	UG: Yes	PG: No	Ph.D : No
Details of Recognitions 1. Approved as Assistant Professor by Mumbai University from December 2017 to December 2020 2. Approved as Assistant Professor by SVU from December 2020 till date			

<b>Education</b>					
Examination	Name of the Degree	University/Board	Institute/College	Year	CPI/SPI/ %Marks
PG	M. sc. Mathematics	IIT Bombay	IIT Bombay	2009	6.5/10
UG	B. sc. Mathematics	Mumbai University	Ramnarain Ruia College, Matunga	2007	83.12%
SET		Maharashtra State		2016	Qualified

<b>Notable Experience Details</b>					
Sr. No	Name of the organization	Designation	Date of Joining	Date of Leaving	Experience (Years)
1.	K. J. Somaiya college of engineering, SVU	Assistant Professor (UGC approved)	18/12/2017	Till date	5 years
2.	Konkan Gyanpeeth College of Engg	Assistant Professor	5/10/2009	15/12/2017	8 years

<b>Research Accomplishments and Projects</b>		
No of students pursuing Ph.D as on date:		No of students completed Ph.D as on date:
No of students completed PG thesis / Project work as on date:		No of students / groups completed UG projects as on date:
Publications Total: 2	Number of Peer review Journal papers: 2	Number of Conference papers: 2
Details of Publications: International Journals 1. Published a research paper titled "Poster Presentation: a novel online assessment tool for motivation, relevance and foundation for research in Mathematics" in Journal of Engineering Education Transformation, Special issue 36: 492-499, 2023 2. Published a research paper titled "Optimum Use of LMS for Dynamic Mathematics Classrooms in Blended Mode" in Journal of Engineering Education Transformation, Special issue 35: 168-174, 2022		

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### Conferences

1. Presented a research paper titled “Poster Presentation: a novel online assessment tool for motivation, relevance and foundation for research in Mathematics” in International Conference on Transformations in Engineering Education, ICTIEE 2023 on 7<sup>th</sup> January, 2023 at Vidyavardhaka College of Engineering, Mysuru, Karnataka, India

### FDPs/Seminars/Workshops/Training Programs Attended/ Organized/ Delivered

#### Attended

1. Attended and successfully completed Online international workshop on "Teaching for and with Creativity in Science and Inquiry-based Learning" organized by Durham University, UK MS-DEED Team IISER Pune and MSFDA From 22<sup>nd</sup> to 23<sup>rd</sup> August, 2022
2. Attended and successfully completed MS-DEED level 2 in-person Master Trainers Workshop on “Effective Teaching for Science & Mathematics Undergraduate Teachers” organized by MS-DEED Team IISER Pune and MSFDA From 16<sup>th</sup> to 26<sup>th</sup> August, 2022
3. Attended and successfully completed MS-DEED level 1 Workshop on “Introduction to Innovative Pedagogies for Science & Mathematics Undergraduate Teachers” organized by Ruia College, in collaboration with IISER Pune and MSFDA From 27<sup>th</sup> to 28<sup>th</sup> July, 2022
4. Attended and successfully completed online FDP on “Symposium on Engineering Mathematics with MATLAB” organized by IUCEE foundation, RV college of engineering and Mathworks India Pvt. Ltd. From 6<sup>th</sup> to 8<sup>th</sup> September, 2021
5. Attended Webinar “Challenges in Science Education and Research in the Covid-19 Scenario” coordinated by Somaiya Institute on 29 July, 2020
6. Successfully Completed 3 day online STTP On ”Latex for Everyone” organized by department of Engineering sciences, RAIT, Nerul from 18-20 June 2020
7. Attended FDP on “Online Teaching and E-Content” organized by S K Somaiya college in Association with IIDE on 11-12 June, 2020
8. Attended Two days National level FDP on “Techniques and Applications in Teaching Engineering Mathematics” organized by Dept. of Mathematics, K.R College of Engineering, Tamil Nadu on 10-11 June, 2020
9. Attended Webinar on “Applications of Mathematics in Engineering and Real Life” organized by Dept. of Engineering sciences and Humanities, Sanjivani College of Engineering, Kopargaon on 8 June, 2020
10. Attended and Successfully completed one week online FDP on “Evolution from offline to online Teaching” organized by IQAC and FDP committee Satish Pradhan Dnyanasadhana College, Thane in association with Department of IT, Mumbai University, YCMU Mumbai regional center and Microsoft on 30<sup>th</sup> May – 3<sup>rd</sup> June, 2020
11. Successfully completed “Effective and Efficient online teaching in the age of Corona: A hands on Workshop” on 24<sup>th</sup> May, 2020 involving 3 days of video lectures and hands on work, organized by TLC ICT at IIT Bombay Through IITB Bodhi Tree Platform and Funded By PMMMMNMTT, MHRD, GOI
12. Attended Guest lecture delivered By Prof. Michel Waldschmidt, France on “A LUCID INTRODUCTION TO ERROR CORRECTING CODES” organized By TLC, K. J. Somaiya College of Engineering, on 14 Dec 2018.
13. Attended state level workshop on “Mathematics for Industry” organized by IAIAM and Dept. of Mathematics and LTC, SPPU in association with the Mathematics Consortium and Bhaskaracharya Pratishthana, Pune on 5-6 Oct, 2018
14. Attended One week Workshop for “Innovative Teaching Learning Practices to achieve Outcome Based Education and Accreditation” organized by SPIT, Andheri, Mumbai from May 3 –May 9, 2018
15. Attended ISTE approved one week STTP on Applications of Mathematics in Science and Engineering in DEC 2013 at Saraswati College of Engineering, Kharghar
16. Attended ISTE approved one week STTP on Recent Trends in Material Science and Energy Engineering in NOV 2011 at Konkan Gyanpeeth College of Engineering, Karjat
17. Attended Faculty Training Workshop on Ethical Hacking and Information Security in Sept 2011 at Konkan Gyanpeeth College of Engineering, Karjat
18. 8 week online FDP course on “Programming, Data Structures And Algorithms Using Python” organized by NPTEL-IITM through July-September 2022
19. 12 week online FDP course on “Computational Mathematics using SageMath” organized by NPTEL through Jan-April 2022
20. 6 Month Training program in 3 phases “IUCEE International Engineering Educator Certification Program (IIEECP 2019)” in engineering education completed successfully on January-July 2019

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21. 8 week online FDP course on “Data Science for Engineers” organized by NPTEL through July-Sept 2019
22. 8 week online course on “Introduction to Abstract and Linear Algebra” organized by NPTEL through Aug-Oct 2018

### Organized

1. Coordinator for Faculty Training program organized by LMS-KJSCE on “Features of LMS” for new joined engineering faculty on 5<sup>th</sup> November 2022
2. Coordinator for Faculty Training program organized at KJSCE on “Impartus Lecture Capturing” for the engineering faculty on 7<sup>th</sup> October 2022
3. Judge for the Inter-collegiate PPT presentation competition on “Real Life application of Mathematics” organized by Department of Mathematics, B. K. Birla college, Kalyan on 17<sup>th</sup> December, 2021
4. Member of the organizing team for “CIASSP- Challenges, Innovations and Adaptations of Covid-19: Science & Society Perspectives” organized jointly by Dept. of SAH, KJSCE and SKSC, SVU on 29<sup>th</sup> and 30<sup>th</sup> Oct, 2021
5. Member of the organizing team for “e-MAPCO: Poster Presentation competition on Application of Mathematics” organized by AMTSI On 18 Oct 2020
6. Member of the organizing Team for International conference ICERAT 2016 held at K.G.C.E.

### Delivered

1. Delivered an online session as a workshop facilitator on “Transforming Mathematics Education in Engineering: The Model KJSCE” during 9<sup>th</sup> International conference on Transformations in Engineering Education on 7<sup>th</sup> January 2022

### Notable Key Scholastic Achievements

1. Completed all 3 levels of MTTs (Mathematics Training and Talent Search), a national level summer program organized by NBHM (National Board of Higher Mathematics).
2. Attended and organized workshops in Astronomy, Telescope handling.

### Notable Positions and Responsibility

1. Institute Coordinator for LMS implementation Under SVU
2. Faculty member in SAHAS and Emfinity Student Body
3. In-charge in Departmental LMS committee
4. Member in Departmental attendance committee

Date: 8 / 2 / 2023

Jitendra Hemant Karekar  
Signature of Faculty Member