

## Somaiya Vidyavihar University

<b>Name: Rajashree T. Daryapurkar</b>		<b>E-mail:rajashreedaryapurkar@somaiya.edu</b>	
<b>Contact No: 022 66449210</b>			
Department/Section: Electronics Engineering			
College: K J Somaiya College of Engineering			
DOJ Somaiya:06/11/2000	Career Experience:22 Yrs	Industry Experience: _0_Yrs	Teaching Experience: _22_Yrs
Present Academic Designation: Associate Professor		Present Administrative Designation: NA (Principal/Vice-Principal/ Associate Dean/ HOD etc)	

<b>Area of research/specialization and Courses Delivered</b>
<p>Research domain/interests/areas</p> <ol style="list-style-type: none"> <li>1. Data and wireless communication Networking</li> <li>2. Embedded systems</li> <li>3. Microcontrollers and Microprocessors</li> </ol> <p>Courses Delivered</p> <ol style="list-style-type: none"> <li>1. Computer architecture and organization</li> <li>2. Data structures laboratory (Using C/Python)</li> <li>3. Advanced Networking Technologies</li> <li>4. Data Communication and Networking</li> <li>5. Programming in C</li> <li>6. Embedded System Design</li> <li>7. Mobile Communication</li> <li>8. Wireless Communication</li> <li>9. Microcontrollers and Microprocessors</li> </ol>

Recognition as a teacher by any University	UG: Yes	PG: Yes	Ph.D : No
<p>Details of Recognitions</p> <ol style="list-style-type: none"> <li>1. Recognized as full time UG teacher in Mumbai University from August 2002.</li> <li>2. Recognized as PG teacher in Mumbai University from August 2007.</li> </ol>			

<b>Education</b>					
Examination	Name of the Degree	University/Board	Institute/College	Year	CPI/SPI/ %Marks
Ph.D	PhD in Electronics & Telecommunication Engineering	Mumbai University	Thadomal Shahani Engineering College, Bandra (W), Mumbai	2023	8.75
PG	Master of Technology (Electronics Engineering)	Mumbai University	V.J.T.I. Mumbai	2007	8.1
UG	B. E. (Electronics &Telecommunication Engineering)	Amravati University	Govt. College of Engineering, Amravati	1998	68.37%

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Diploma			
NET/SET/Other			

Notable Experience Details					
Sr. No	Name of the organization	Designation	Date of Joining	Date of Leaving	Experience (Years)
1.	K.J.S.C.E. Vidyavihar	Assistant Professor	06/11/2000	Working till date	22 years
2.					

Research Accomplishments and Projects		
No of students pursuing Ph.D as on date: NA	No of students completed Ph.D as on date: NA	
No of students completed PG thesis / Project work as on date: 08	No of students / groups completed UG projects as on date: 45	
Publications Total: 12	Number of Peer review Journal papers: 05	Number of Conference papers: 7

### Details of Publications:

#### International Journals

1. "Multi-level Architecture for a Swarm of Surveillance Rovers," published in the International Journal for Research in Applied Science and Engineering Technology (IJRASET), Volume 10, Issue X, Page No: 1100-1110, ISSN: 2321-9653, October 2022
2. "Implementation of Low Complex SLM Approach Using Sub-Block Conversion Matrices for OFDM-PARP Reduction ," International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211, Volume 9, Issue 10, October-2021
3. "Harmonic Mitigation Solution of three Phase Inverter", International Research Journal of Engineering and Technology, Volume 7, issue12, December 2020
4. "WLAN-WIMAX Scheduler-Based Hybrid Sensor Network for Data Aggregation in Smart Grid", International Journal of Future Generation Communication and Networking Vol. 12, No. 3 (2019), pp.11-24, <http://dx.doi.org/10.33832/ijfgcn.2019.12.3>.
5. "Performance Analysis of Embedded Linux in Embedded System," published in International Journal of Innovative Technology and Exploring Engineering (IJITEE Volume-2, Issue-2, )m ISSN:2278-3075, January-2013

#### National Journals: Nil

#### Conferences

1. "WIMAX Smart Grid Communication network for a Substation" , Sixteenth International Conference on Wireless and Optical Communications Networks (WOCN2019), Bhopal, December 2019
2. " WiMAX for Data Aggregation in Smart Grid Communication Network -A Review" in IEEE International Conference on Wireless Communications, Signal Processing and Networking (WSPNET 2017), Chennai
3. Design and Implementation of Wireless Heartbeat Measuring Device for Remote Health Monitoring," in International Conference on Recent Trends in Engineering and Technology VISHWACON 2016-17, Pune.
4. "Analysis of Fluidized Catalytic Cracking Process using Fuzzy Logic system," in 2016 International Conference on Advances in Computing, Communications and Informatics (ICACCI), Jaipur, India
5. " Coherent Power Controlling in Energy Scavenging Embedded system," in 2016 International Conference on Micro-Electronics and Telecommunication Engineering, ICMETE, Jaipur, India
6. "Intelligent appliance control system using arm processor and Zigbee," in international conference on Emerging Intelligent Sustainable Technologies (ICEISTCON) Pune.

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7. Presented a paper named “Digital Image Watermarking Using Vector Quantization “National Conference on “Emerging Technologies in Control & Instrumentation” at Thadomal Shahani Engineering College, 19-20th October 2007.

Books/Book Chapters

Patents/Copy Rights

No of Research / consultancy / projects completed: Rs:	No of Research / consultancy / projects on-going: Rs:	No of Research / consultancy / projects on applied as on date: Rs:
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Details of Research / consultancy / projects:

Completed

On-going

Applied

IPR/ Copyrights

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

Attended

1. Attended National conference,” National Education Policy 2020 Implementation in Maharashtra: Opportunities and Challenges” organized by Preeminent Education and Research Association Pune and Somaiya Vidyavihar University, Mumbai on 30<sup>th</sup> March 2022
2. Completed online course, “LaTeX101x: LaTeX for Students, Engineers, and Scientists,”conducted by Indian Institute of Technology Bombay from 26 January 2021 to 28 May 2021.
3. Completed online Coursera course on, “Welcome to Game Theory,” by The University of Tokyo
4. Attended Short Term Training Program, “CCNAV7: Enterprise Networking, Security, and Automation,” August 3-6, 2020 conducted by CISCO Center, EXTC Department, K. J. Somaiya College of Engineering, Vidyavihar, Mumbai
5. Attended Short Term Training Program, “CCNAV7: Switching, Routing, and Wireless Essentials,” August 1-3, 2020 conducted by CISCO Center, EXTC Department, K. J. Somaiya College of Engineering, Vidyavihar, Mumbai
6. Attended online STTP on “Sensor, IoT & Machine Learning” from 1st June 2020 to 5th June 2020 conducted by K. J. Somaiya College of Engineering, Vidyavihar, Mumbai
7. Attended Short Term Training Program, “CCNA Routing and Switching: Introduction to Networks,” Jul 1-6, 2019 conducted by CISCO Center, EXTC Department, K. J. Somaiya College of Engineering, Vidyavihar, Mumbai
8. Attended Short Term Training Program on “ Recent Trends in Wireless Networks” held during 2nd Jan to 7th Jan 2019 at DJSCE, Wile Parle
9. Completed (a blended mode)course on “ College to Corporate program” conducted by IIT Bombay from 6 September to 8 November 2018
10. Completed SWAYAM NPTEL course on “ Introduction to smart grid” from July 2018 to Oct 2018 conducted by IIT Roorkee
11. Attended Short Term Training Program on “ Internet of things and its Applications,” held during 3rd July to 7th July 2017 organized by Thadomal Shahani Engineering College, Bandra, Mumbai
12. Attended a national level , “workshop on NS3” at Sinhararh Institute of technology, Lonawala on 23th-24th December 2016
13. Attended an orientation program in the subject of “Advanced Networking Technologies,” on 18th Jan 2016
14. Attended two days workshop on , “ Wireless Networks,” at PVPP’s College of Engineering, Mumbai on 18th -19th December 2015
15. Participated in IEEE Authorship Workshop: How to publish a Technical Paper with IEEE at DBIT, Mumbai on 18th August 2015

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<p>16. Attended two days workshop on “ARM, ARM Cortex and RTOS “at SPIT, Mumbai on 07th - 08th August 2015.</p> <p>17. Participated in one day workshop on , “ Raspberry Pi, “ at SPIT , Mumbai on 27th June 2015</p> <p>18. Attended two days workshop on “Research Proposal and technical paper writing “at SPIT, Mumbai on 10th -11th April 2015.</p> <p>19. Attended one day workshop on Communication Systems Design using MATLAB (Toolbox and Simulink) 9th January 2015, by Mr.Tarbez Khan, Mathworks, KJSCE, Vidyavihar</p>
<p><b>Organized</b></p> <ol style="list-style-type: none"><li>1. Organized a guest lecture on “Role of LabVIEW in Specific Aspects of Engineering" on 04th April 2018 at KJSCE, Vidyavihar</li><li>2. Organized guest lecture on “Embedded systems” 5th March 2015 by Dr. Y.S. Rao, SPIT, Mumbai</li><li>3. sss</li><li>4. sss</li></ol>
<p><b>Delivered</b></p> <ol style="list-style-type: none"><li>1. sss</li><li>2. sss</li></ol>

<b>Notable Key Scholastic Achievements</b>	
1.	Distinction in M.Tech. (C.P.I.- 8.1)
2.	Certified CCNA instructor for CISCO Networking Academy

<b>Notable Positions and Responsibility</b>	
1.	Worked as associate head and program coordinator of Electronics Department from Nov 2013 to July 2015
2.	

**Date: 23 / 06 / 2023**

**Rajashree T. Daryapurkar**  
**Signature of Faculty Member**