

Somaiya Vidyavihar University

Name: Dr. Maruti B Zalte			E-mail:marutizalte@somaiya.edu		
Contact No: 9821132516 / 02266449323					
Department/Section: Electronics & Telecommunication					
College: K J Somaiya College of Engineering					
DOJ Somaiya: August 02,2023		Career Experience:___ Yrs		Industry Experience:01 Yrs	Teaching Experience: 23 Yrs
Present Academic Designation: Associate Professor			Present Administrative Designation: In-charge Admission, Jt. Associate Dean IAI		

Area of research/specialization and Courses Delivered					
Research domain/interests/areas <ol style="list-style-type: none"> Signal Processing VLSI Design Embedded Systems Sensors & IoT Courses Delivered <ol style="list-style-type: none"> Digital Signal Processing VLSI Design Microelectronics Devices and IC manufacturing Digital Electronics Introduction to MEMS Elements of Electrical and Electronics Circuits Digital Communication Analog Electronics Hardware Description Languages Signals & Systems 					

Recognition as a teacher by any University	UG: Yes	PG: Yes	Ph.D : Yes/No
Details of Recognitions			

Education					
Examination	Name of the Degree	University/Board	Institute/College	Year	CPI/SPI/ % Marks
Ph.D	PhD Electrical Engineering	EE IITB, Mumbai	EE IITB, Mumbai	2022	9
PG	M.E. E&TC	Pune	College of Engineering Pune	2001	65%
UG	B.E. E&TC	Dr. BAMU, Aurangabad	Govt college of Engineering Pune	1999	69%
Diploma	Industrial Electronics	MSBTE	P.L Govt Polytechnic Latur	1999	78%

Notable Experience Details					
Sr. No	Name of the organization	Designation	Date of Joining	Date of Leaving	Experience (Years)
1.	BE-DELFT Electronics Ltd	Trainee Engineer	September 2000	August 2001	01
2.	St. Francis Institute of Technology, Mumbai	Lecturer	September 2021	August 2022	01
3.	K J Somaiya College of Engineering	Lecturer	August 2022	July 2008	06
4.	K J Somaiya College of Engineering	Associate Professor	July 2008	Till date	--

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Research Accomplishments and Projects		
No of students pursuing Ph.D as on date:NIL		No of students completed Ph.D as on date:NIL
No of students completed PG thesis / Project work as on date:NIL		No of groups completed UG projects as on date: 40
Publications Total:10	Number of Peer review Journal papers:05	Number of Conference papers:05
Details of Publications: International Journals <ol style="list-style-type: none"> 1. "Passivation of solution-processed a-IGZO thin-film transistor by solution processable zinc porphyrin self-assembled monolayer," MB Zalte, TR Naik, A Alka, M Ravikanth, VR Rao, MS Baghini, IEEE Transactions on Electron Devices 68 (11), 5920-5924 2. "A solution processed amorphous InGaZnO thin-film transistor-based dosimeter for gamma-ray detection and its reliability," MB Zalte, V Kumar, SG Surya, MS Baghini IEEE Sensors Journal 21 (9), 10667-10674. 3. "Towards a low cost fully integrated IGZO TFT NO2 detection and quantification: A solution-processed approach," MT Vijjapu, S Surya, M Zalte, S Yuvaraja, MS Baghini, KN Salama Sensors and Actuators B: Chemical 331, 129450 4. "Performance of Naïve Bayes Classifier Multinomial Model on Different Categories of Documents", H Doshi, M Zalte Proceedings of the National Conference on Emerging Trends in Computer National Journals 5. "Comparison of supervised learning techniques for binary text classification," H Doshi, M Zalte International Journal of Computer Science and Information Security 10 (9), 52 Conferences <ol style="list-style-type: none"> 1. A Low-cost Acetone Sensor using Amorphous InGaZnO Transistor for Potential Diagnosis of Diabetes by Breath Analysis, MB Zalte, International Conference on Technologies for Energy Agriculture and Healthcare ICTEAH 2024, K J Somaiya College of Engineering 2. IGZO thin film transistor based sensors for environmental sensing, 2020 5th IEEE International Conference on Emerging Electronics (ICEE), 1-4, MB Zalte, Mumbai 3. a-InGaZnO Thin-film Transistor as an Oxygen Gas Sensor with In-Situ Electrical Characterization, TR Naik, MB Zalte, MS Baghini 2020 5th IEEE International Conference on Emerging Electronics (ICEE), 1-4 		
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:_____
Details of Research / consultancy / projects: Completed On-going Applied		
IPR/ Copyrights		

FDPs/Seminars/Workshops/Training Programs Attended/ Organized/ Delivered
Attended <ol style="list-style-type: none"> 1. Workshop: Industry 4.0 and smart manufacturing, ETRX Department KJSCE 2. Train the Trainer program by Festo Pvt Ltd and ETRX department August 1-5, 2022 3. INUP workshop on " Nanofabrication Technologies" IITB, 2014 4. CDEEP course on "Biosensors and Bio-MEMS" EE IITB, 2014 5.

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Organized

1. Visit to Nanofabrication facility for students enrolled in MEMS and VLSI 2022.

Delivered

1. Training for Staff MITCON Pune Vocational Training on Solar Energy 2013
2. Trainer Solar Photovoltaics: Fundamental, technologies & Applications 2011 NCPRE –IITB & K J Somaiya College of Engineering

Notable Key Scholastic Achievements

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| 1. | Completed PhD from EE IITB Mumbai under Quality Improvement program Fellowship AICTE |
| 2. | Qualified GATE 1999 with 90 percentile and Completed M.E with Scholarship AICTE |

Notable Positions and Responsibility

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| 1. | Sports In-charge and Associate Dean Students' Affair K J Somaiya College of Engineering , 2008-2011 |
| 2. | Dean Students' Affair K J Somaiya College of Engineering , 2011-2014 |
| 3. | Admission In-charge K J Somaiya College of Engineering , 2023 till date |
| 4. | Jt. Associate Dean IAI September 2024 till date |
| 5. | Convenor, Laboratory Development committee Electronics & Telecommunication KJSCE 2022 till date |
| 6. | Member, Examination Squad Somaiya Vidyavihar University A.Y. 2023-22 |
| 7. | Member, Prevention of Unfair Means Committee Somaiya Vidyavihar University 2022- till date |
| 8. | |

Date: 21 / 10 / 2024

MBZAlte
Signature of Faculty Member