

Name **DR. SUHASINI S. GOILKAR**

Designation Associate Professor

Department Electronics and Telecommunication Engineering

Date of Joining the Institute 05/12/2011

Education PhD (Electronics and Communication)
M.E. (E & TC)
B.E. (Electronics)

Branch/ Specialization Electronics and Telecommunication

Areas of Interest Analog and Digital communication
Digital Image Processing,
3D and Computer Vision

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Academic Appointments

Name of the University / Institute/ Industry	Designation
Finolex Academy of Management and Technology, Ratnagiri	Associate Professor
Finolex Academy of Management and Technology, Ratnagiri	Assistant Professor (Senior Grade)
J .J .Magdum College of Engg. , Jaysingpur.	Assistant Professor
Sanjeevan Engineering &	Lecturer (Sr. Grade)

Tech. Institute,
Panhala,
Kolhapur

Orchid college of Engineering &Technology, Solapur.	From 22/01/2010 to 31/05/2010	Lecturer
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K J. Somaiya College of Engineering, Vidyavihar, Mumbai.	From 10/07/2006 to 01/07/2008	Lecturer
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Bharati Vidhyapeeth's college of Engineering, Kolhapur	From 01/10/2004 to 30/05/2006	Lecturer
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Rajendra Mane College of Engineering & Technology, Ambav, Dist- Ratnagiri	From 03/02/2003 to 12/09/2004	Lecturer
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Institute of Polytechnic, Barshi, Dist.-Solapur.	From 01/07/1998 to 30/04/2002	Lecturer
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Total Experience – 22 Years

Awards / Honors / Prizes

1. Best Performance Award in Four weeks AICTE approved Faculty Development Program on “**Use of ICT in Education for Online and Blended Learning**” Conducted by IIT Bombay
2. Honor code certificate in Two-Week ISTE STTP on “**Technical Communication**” Conducted by IIT Bombay
3. Published research papers in IEEE, **Springer and AIP Conferences and book chapters.**
4. Completed month long research study on “**Developing Engineering teachers’ design expertise**”, of IDP, IIT Bombay
5. Received Mumbai university **Minor Research** project grant.
6. Selected as an Associate Faculty and worked as a mentor for **FDP 101X and FDP 201X** conducted by IIT Bombay.
7. IEEE and Springer conference paper **Reviewer.**
8. **Innovation Ambassador** of MoE’s Innovation cell and AICTE.
9. Worked as a panelist for **International Conference ICCS-2021, Mohali Punjab.**
10. Published and Granted **Design Patent.**
12. Editor board member of **Primera Scientific Publications Journal.**
13. Elite grade with 76% marks and Silver Medal in NPTEL course conducted by IIT Kharagpur for subject “**Digital Image Processing**”.
14. Elite grade with 71% marks in NPTEL course conducted by IIT Madras for subject “**Introduction to Research**”

Seminars/Lecture/Invited Talks Conducted

1. Worked as Teaching Assistant in Two Weeks ISTE-STTP of IIT Kharagpur on “**Signals and Systems**” conducted at Finolex Academy Remote center from 2nd January 12th January 2014.
2. Worked as Core Organizing Committee member of 2nd National Conference on “**Recent Advances in Science & Technology, RAST 2K16**”, FAMT, Ratnagiri, February 17-18, 2016.
3. Worked as Departmental Organizing Committee member of 2nd National Conference on “**Recent Advances in Science & Technology, RAST 2K16**”, FAMT, Ratnagiri, February 17-18, 2016.
4. Worked as coordinator, EXCT Dept. organized Webinar on “**Cyber Security**” dated on Saturday 20 June 2020 from 11.00 a.m. to 12.30 p.m.
5. Worked as coordinator, EXCT Dept. organized five days Training Program on “**Image and Video processing using OpenCV**” dated 27 Sept 2021 to 1st Oct 2021.
6. Worked as coordinator, EXCT Dept. organized A webinar on “**Future in Electronics as an Entrepreneur**” in Association with IIC, FAMT, dated on 19 th October 2021, Time 4.00 pm.

7. Worked as coordinator ISTE approved One-week online FDP on “**AI Algorithms & Applications in Healthcare**” organized by E & TC Department, FAMT, Ratnagiri held from 19th to 23rd June, 2023.
8. Conducted one session in ISTE approved One-week online FDP on “**AI Algorithms & Applications in Healthcare**” organized by E & TC Department, FAMT, Ratnagiri held from 19th to 23rd June, 2023.

Papers Published

Book Chapter – 02

1. 15. Mrs. Suhasini S Goilkar, “**Image Enhancement in Frequency Domain Fingerprint Detection and Matching Approach.**” Springer- Engineering Cyber-Physical Systems and Critical Infrastructures book series (ECPSCI,volume 3) (Scopus Indexed).
2. 14. Mrs. Suhasini S Goilkar, “**Restoration of defocused X-Ray images with blind and nonblind deconvolution for the use in bio-medical applications.**” Springer- Lecture Notes Electrical Engineering, Vol.828, ICCCE2021,978-981-16-7984-1,511255_1_En, Chapter 29. (Scopus Indexed).

Papers Presented/Published in National / International Journals – 15

International Journals – 15

1. S S Goilkar, “Speech Feature Extraction and Matching Technique” International Journal of Recent Advances in Engineering & Technology (IJRAET), ISSN (Online): 2347-2812, Volume 4, Issue 7, 2016, pp. 18-22, **(Impact Factor 1.57)**.
2. S S Goilkar, “Speaker recognition with various feature extraction and classification techniques: A review” International Journal of Creative Research Thoughts, ISSN: 2320-2882, Volume 6, Issue 2, 2018, pp. 861-865 **(Impact Factor 5.97)**.
3. S S Goilkar, “Smart bag with theft prevention and real time tracking” International Journal of trends in scientific research and development, ISSN: 2456-6470, Volume 2, Issue 2, 2018, pp. 1118-1120 **(Impact Factor 4.101)**.
4. S S Goilkar, “An efficient smart garbage disposal system- A review” International Journal of trends in scientific research and development, Volume 2, Issue 2, 2018, pp. 1506-1509 **(Impact Factor 4.101)**.
5. S S Goilkar, “IOT Based advanced vehicle security system” International Journal of management technology and engineering, Volume 9, Issue 4, 2019, pp. 450-457 **(Impact Factor 6.3, UGC approved journal)**.
6. S S Goilkar, “Remotely Accessible Retestable Robotic Arm using IOT” International Journal of management technology and engineering, Volume 9, Issue 4, April - 2019, pp. 906-913 **(Impact Factor 6.3, UGC approved journal)**.
7. S S Goilkar, “IOT Based City Monitoring System” International Journal of management technology and engineering, Volume 9, Issue 4, April-2019, pp. 1978-1983 **(Impact Factor 6.3, UGC approved journal)**.
8. S S Goilkar, “IOT Based City Monitoring System- A Review” International Journal for science and advanced research in Technology, IJSART, Volume 5, Issue 3, March-2019, pp. 367-371 **(Impact Factor 6.3, UGC approved journal)**.
9. `Mrs. Suhasini S Goilkar, “Implementation of blind and nonblind deconvolution for restoration of defocused image.” **(Scopus Indexed, Available in IEEE Xplore)**,
10. Mrs. Suhasini S Goilkar, “Orthopantomographic X- Ray defocused image restoration with blind and nonblind deconvolution for diagnostic use in dental applications.” **(Scopus Indexed, Available in IEEE Xplore)**

11. Mrs. Suhasini S Goilkar, "Depth Map Estimation of Single Defocused Image" IEEE International Conference on Forensics, Analytics, Big Data and Security, IEEE-FABS 2021, 21 to 22 December 2021, Organized by BMS Institute of Technology and Management, Bengaluru. Belagavi
(Scopus Indexed),
12. Mrs. Suhasini S Goilkar, "Analysis and Implementation of Defocused images based on different point spread functions", Renewable Research Journal, REX -ISSN 2321-1067, page no. 206- 208. 2021.
Journal Publication
13. Mrs. Suhasini S Goilkar, "Depth Estimation of Defocused image using Markov Random Field Method", Renewable Research Journal, REX -ISSN 2321-1067, page no. 206- 208. 2022. **Journal Publication**
14. Mrs. Suhasini S Goilkar, "Defocused image restoration using wiener and inverse filter in context of security application" 3rd International Conference on Innovations in Communication Computing and Sciences, AIP-ICCS 2021, 27 to 28 August 2021, Organized by Electronics and Communication Engineering Department, Chandigarh Engineering College, Landran, Mohali, Panjab, India. (Scopus Indexed),
15. Filled Published and Granted Design Patent as Dustbin with Cleanliness Tracker

Papers Presented/Published in National/ International Conferences – 12

International Conferences – 10

1. Mrs. Suhasini S Goilkar, "Speech feature Extraction and Matching Techniques." International Conference on ICRCTCCS'16 2016, dated 08 to 09 January 2016, Organized by International Institute of Information Technology, Pune
2. S S Goilkar , "Wavelet Based Image Compression Using EZW and SPIHT Coding" International Conference on Engineering Confluence, EQUINOX-2015, 30th September – 1st October 2015, Terna Engineering College, Nerul (West), Navi Mumbai.
3. Mrs. Suhasini S Goilkar, "Implementation of blind and nonblind deconvolution for restoration of defocused image." 3rd IEEE International Conference on Emerging smart computing and informatics, IEEE-ESCI 2021, 05 to 07 March 2021, Organized by AISSMS, Institute of Information Technology, Kennedy Road, Pune
4. Mrs. Suhasini S Goilkar, "Restoration of defocused X-Ray images with blind and nonblind deconvolution for the use in bio-medical applications." 3rd IEEE International Conference on Communications and Cyber physical Engineering, ICCCE-Springer 2021, 09 to 10 April 2021, Organized by CMR Engineering college, Hyderabad.
5. Mrs. Suhasini S Goilkar, "Orthopantomographic X- Ray defocused image restoration with blind and nonblind deconvolution for diagnostic use in dental applications." IEEE International Conference on Communication information and Computing Technology 2021, IEEE-ICCICT 2021, 25 to 27 June 2021, Organized by Sardar Patel Institute of Technology, Andheri, Mumbai.
6. Mrs. Suhasini S Goilkar, "Defocused image restoration using wiener and inverse filter in context of security application" 3rd International Conference on Innovations in Communication Computing and Sciences, AIP-ICCS 2021, 27 to 28 August 2021, Organized by Electronics and Communication Engineering Department, Chandigarh Engineering College, Landran, Mohali, Panjab, India.
7. Mrs. Suhasini S Goilkar, "Image Enhancement in Frequency Domain Fingerprint detection and matching approach " Springer International Conference on ICOICT2022 , held on 11 to 12 August 2022, Organized by EEE, JCT College of Engineering and Technology , Coimbatore.
8. Mrs. Suhasini S Goilkar, "Depth Estimation of Defocused image using Markov Random Field Method", International conference on Reimagining Future Librarianship: Roles and Competencies, 29th January 2022, Department of Library and Information Science, SJJTU, Rajasthan.
9. Mrs. Suhasini S Goilkar, "Depth Map Estimation of Single Defocused Image" IEEE International Conference on Forensics, Analytics, Big Data and Security, IEEE-FABS 2021, 21 to 22 December 2021, Organized by BMS Institute of Technology and Management, Bengaluru, Belagavi
10. Mrs. Suhasini S Goilkar, attended the first International Conference on ICISA 2022, dated 04 to 05 May 2022, Organized by World Peace University, Pune.

National Conferences – 02

1. Mrs. Suhasini S Goilkar, "A comparative study of various image restoration Techniques" National Conference on Changing Technology and Rural development, CKRD-2018, 30th September – 1st December 2018, RMCET, Ambav.
2. Mrs. Suhasini S Goilkar," Analysis and Implementation of Defocused images based on different point spread functions", National conference on Futuristic Directions in Applied Science, Education and Research, 31st July 2021, Institute of Science, SJJTU, Rajasthan.

Number of STTPs/FDPs/Workshops/Seminars or Webinars Attended – 47

STTPs and FDPs

1. Attended Two weeks ISTE-IITB workshop on "Introduction to Research Methodology" conducted at Finolex Academy Remote center from 25th June to 4th July 2012.
2. Attended Two days ISTE-IITB workshop on "Aakash for Education" conducted at Finolex Academy Remote center from 10th to 11th November 2012.
3. Attended Two weeks ISTE-IITB workshop on "Database Management Systems" conducted at Finolex Academy Remote center from 21st May to 31st May 2013.
4. Attended Two weeks ISTE-IITKGP workshop on "Analog Electronics" conducted at Finolex Academy Remote center from 4th June to 14th June 2013.
5. Attended One day orientation program "Signals and Systems" of S. E. (Electronics and Telecommunication Engineering Subject at RGIT, Andheri, Mumbai on 3rd January 2014.
6. Attended Two weeks ISTE-IITB workshop on "Computer Programming" conducted at Finolex Academy Remote center from 20th May to 21st June 2014.
7. Attended Two weeks ISTE-IITB workshop on "Computer Networking" conducted at Finolex Academy Remote center from 30th June to 05th July 2014.
8. Attended Two weeks ISTE-IITB workshop on "Technical Communication" conducted at Finolex Academy Remote center from 8th October to 5th December 2015.
9. Attended Four weeks AICTE approved Faculty Development Program of IITB on "Use of ICT in Education for Online and Blended Learning" conducted at Finolex Academy Remote center from 2nd May to 10th July 2016.
10. Attended total one week workshop on weekends of RDCC of FAMT on "Funding Schemes available for Research Proposal" conducted at Finolex Academy of Management and Technology from 13th February to 23rd April 2016.
11. Attended Faculty Development Program of Lemures Technologies and IEEE Delhi on "Self-Dependence and Advantages of Technology and Digital Marketing" conducted at Finolex Academy of Management and Technology on 23rd September 2016.
12. Attended Four weeks AICTE approved Faculty Development Program of IITB on "Foundation Program in ICT for Education (FDP101x)" conducted at Finolex Academy Remote center from 03rd August 2017 to 07th September 2017.

13. Attended Four weeks AICTE approved Faculty Development Program of IITB on "Pedagogy for Online and Blended Teaching-Learning Process (FDP201x)" conducted at Finolex Academy Remote center from 14th September to 12th October 2017.
14. Attended one week Faculty Development Program on 'Opportunities and challenges in electronics and allied industries in india" from 25 th to 30 th may 2020 organized by department of electronics engineering in association with IIC of Vivekananda education society's institute of technology, Chembur, Mumbai.
15. Attended Two weeks Online Faculty Development Program on "Prayog - Experiments on Clock - Using Virtual Labs" from 18/05/2020 to 27/05/2020, organized by Dept. of instrumentation Engg. Vidyavirdhini's college of Engg. And Tech. Vasai Mumbai.
16. Attended One-week Online Faculty Development Program on "Engineering education and the industry- A post covid 19 prospective" from 1/06/2020 to 05/06/2020, organized by Rajiv Gandhi Institute of Technology, Mumbai.
17. Attended One-week Online Faculty Development Program on "Research Methodology" from 20/05/2020 to 25/05/2020, organized by Shri Chhatrapati Shivajiraje college of engineering, Pune.
18. Attended One-week Online Faculty Development Program on "The effective Techniques of Teaching and E- Commerce" from 01/06/2020 to 05/06/2020, organized by Saraswathi institute of Technology, Kharghar, Navi Mumbai
19. Attended One-week Online Faculty Development Program on "Academic measures, process and metrics TEL for NAAC RAF" from 08/06/2020 to 12/06/2020, organized by Internal quality assurance cell, VOC college of education. Tamil Nādu.
20. Attended One-week Online Faculty Development Program on "Signal, video and image processing- a practical approach" from 26/05/2020 to 30/05/2020, organized by TEQIP-III, Dept. of EXTC, Government college of Engineering, Karad.
21. Attended One-week Online Faculty Development Program on "Implementation and simulation of electrical engineering applications using PLECS tool." from 25/05/2020 to 29/05/2020, organized by Vaagdevi college of engineering in association with PLEXIM, Switzerland.
22. Attended One-week Online Faculty Development Program on "Recent trends and applications of machine learning and deep learning in IT." from 25/05/2020 to 29/05/2020, organized by Dept. of information Technology, RAIT, Mumbai
23. Attended One-week Online Faculty Development Program on "Matlab based teaching learning in mathematics, science and engineering." from 18/05/2020 to 22/05/2020, organized by Dept. of information Technology, RAIT, Mumbai
24. Attended One-week Online Faculty Development Program on "Innovative trends in engineering and technology." from 25/05/2020 to 29/05/2020, organized by L R Tiwari college of engineering, Mumbai
25. Attended One-week Online Faculty Development Program on "Education from offline to online teaching." from 30/05/2020 to 03/06/2020, organized by Satish Pradhan Dnyanasadhana college, Thane, Mumbai

26. Attended One-week Online Faculty Development Program on "Technological advancement in the field of electronics and telecommunication engineering." from 05/05/2020 to 09/05/2020, organized by Vidyavaridhi's college of Engg. And Tech. Vasai Mumbai.
27. Attended One-week Online Faculty Development Program on "Artificial Intelligence" from 22/05/2020 to 26/05/2020, organized by Dept of computer science and engineering of Vardhman college of engineering in collaboration with Brain o vision solution India Pvt. Ltd. Mumbai.
28. Attended One-week Online Faculty Development Program on "Amazon Web Services." from 22/08/2022 to 27/08/2022, organized by Brain o vision solutions and AISSM college of engineering, Pune.
29. Attended One-week international level Faculty Development Program on "The effective techniques of Teaching and E Commerce." from 01/06/2020 to 05/06/2020, organized by Saraswati college of engineering, Mumbai.
30. Attended Three days Online workshop on "Education 4.0 Session II" of electronics and telecommunication engineering from 28/05/2020 to 30/05/2020, organized by Atharva college of Engg. And Tech. Vasai Mumbai.
31. Attended National Level One-week Online Faculty Development Program on "Advances in 5G and Next Generation Networks" from 26/06/2023 to 30/06/2023, organized by EXTC Dept. SIT Lonavala.
32. Attended ISTE approved One-week Online Faculty Development Program on "AI Algorithms and Applications in Healthcare" from 19/06/2023 to 23/06/2023, organized by FAMT, Ratnagiri
33. Attended National IPR Awareness Mission on 17/11/2022, organized by FAMT, Ratnagiri
34. Attended Webinar series Program on "Hands on session on covid 19 Prevention Devices" from 25/05/2020, organized by EXTC Dept. IETE Students Forum, SIT Lonavala.
35. Attended Webinar series Program on "5G Communication of next Generation" from 25/05/2020, organized by EXTC Dept. IETE Students Forum, VIT Mumbai.
36. Attended One Day Webinar on "Kick Start your Research work" from 30/05/2020, organized by School of Computer Science and Technology, Mumbai.
37. Attended Webinar on "Intellectual Property Rights" on 30/05/2020, organized by BVCOE. Pune.
38. Attended National Webinar on "Tipa To Write Thesis" on 05/06/2020, organized by VOC. Tamil Nadu.
39. Attended Two Days FDP on "NBA Preparation" from 05/03/2020 to 05/03/2020 organized by FAMT, Ratnagiri.
40. Attended One Day Seminar on "An Introduction to Speech Technology" organized by FAMT, Ratnagiri from 31/01/2018.
41. Attended National IPR Awareness Mission on 01/04/2022, organized by FAMT, Ratnagiri
42. AICTE training and learning (ATAL) Academy online FDP on one-week Online faculty development program On "Sensors Technology" from 2020- 09- 07 to 2020-09-11 at shri Vithal Education and research Institute College of engineering, Pandharpur.
43. AICTE Training and learning (ATAL) Academy online FDP on one-week Online faculty development program On "Recent Trends and Applications In Biomedical Signal and Image Processing" from 2020-09-20 to 2020-09-25 at g. H. Raisonni college Of engineering, Nagpur

44. AICTE training and learning (ATAL) Academy online FDP on one-week Online faculty development program On "Artificial Intelligence" from 2021- 06- 07 to 2021-06-11 at Poornima Institute of engineering and Technology.
45. AICTE training and learning (ATAL) Academy online FDP on one-week Online faculty development program On One-week online faculty Development program on "Electric Vehicles" from 2021-07-05 to 2021- 07-09 at Vivekanand education Society's Institute of Technology. Mumbai.
46. AICTE training and learning (ATAL) Academy online FDP on one-week Online faculty development program On "Cyber Security and Applications" From 2021-09-12 to 2021-07-12 at Sharad institute of technology College of engineering.
47. AICTE training and learning (ATAL) Academy online FDP on one-week Online faculty development program On "signal processing for cognitive Neuroscience applications" from 2022-06- 17 to 2022-06-21 at National institute of technology Meghalaya.

Exam Duties

1. Worked as an **Department Exam Coordinator** for conduction of online **DSE University Exam**.
2. Worked as a **Senior Supervisor** for **University Exam**.
3. Exam related duties as **Paper Setter, Answer book Evaluator and Moderator, Internal and External Examiner** for conducting theory, practical and oral exams.
4. Working as a **result-checking committee member**.
5. Worked as a **scrutiny committee member**.
6. Working as an **Invigilator** for University theory exams.

Subjects Taught

Sr. No.	Name of the Subject	Year/Branch/Semester
1.	Principles of communication Engineering	SE / EXTC/ IV
2.	Digital Communication	TE / EXTC/ V
3.	Analog Communication	SE / EXTC/ IV
4.	Network Theory.	SE / EXTC/ III
5.	Principles of communication Engineering	SE / IT/III
6.	Microwave Engineering	BE / EXTC/ VIII
7.	Data Compression and Encryption	TE / EXTC/ VI
8.	Signals and Systems.	SE / EXTC/ IV

9.	Circuit Theory and Network	SE / EXTC/ III
10.	Digital Image Processing	TE / EXTC/ VI
11.	Digital Signal Processing	TE / EXTC/ V
12.	Control Systems.	SE / EXTC/ III