Name	MR. SUJAY D. MAINKAR
Designation	Assistant Professor
Department	Electronics & Telecommunication Engineering
Date of Joining the Institute	01/12/2008
Education	B.E.(E & TC), RMCET, Devrukh, 2007
	M. Tech(E & TC), COEP, Pune, 2015
Branch / Specialization	Wired and Wireless Communication
Areas of Interest	Speech and Audio Processing, Image and Video Processing, Communication and Networking, Soft Computing, Machine Learning, Pattern Recognition
Email	sujay.mainkar@famt.ac.in

Academic Appointments

Name of the University / Institute/ Industry	Duration	Designation
Finolex Academy of Management & Technology, Ratnagiri	From 01/12/2008 to till date	Assistant Professor
Rajendra Mane College of Engineering and Technology, Ambav, Devrukh	From 19/07/2007 to 30/11/2008	Lecturer
Total Experience – 11 Years		

Awards / Honors / Prizes

1. Received **First Rank with Gold Medal** in NPTEL certification exam for 8 week course Satellite Communication conducted by Prof. K. K. Bandyopadhyay (IIT, Kharagpur) during July, 2017 to October, 2017.

2. Published **a Book Chapter** in **"Advances in Computing Applications", Springer Singapore, 2017 (ISBN 978-981-10-2630-0).**

3. **SAP Award of Excellence for being one of the top performers in FDP by IIT Bombay on "Use of ICT in Education for Online and Blended Learning".**

Seminars/Lecture/Invited Talks Conducted

1. Worked as a **Coordinator** for One Week **AICTE – ISTE approved STTP** on **'Digital Image Processing- Issues, Challenges and Research Avenues'** from 4th June, 2018 to 8th June, 2018.

2. Organized a workshop and worked as a **Coordinator** for Two days' workshop on **'RF and Antennas: From Theory to Practice'** at Finolex Academy of Management & Technology, Ratnagiri from 11th August and 12th August, 2017.

3. Conducted a session on **'Do's and Don'ts in Project Work –Discussion through Case Studies'** as a resource person for B. E. – E & TC students on 22nd July, 2017 at Finolex Academy of Management and Technology Ratnagiri.

4. Organized a workshop and worked as a **Coordinator** for 3-days workshop on **'Networking Fundamentals with Hands-on using NS-2/NS-3 and Unified Communication'** at Finolex Academy of Management & Technology, Ratnagiri from 27th January to 29th January, 2017.

5. Worked as Departmental Coordinator for Two days' workshop on **'Mobile Antennas- Fundamentals, Design, Fabrication and Testing'** at Finolex Academy of Management & Technology, Ratnagiri on 1st and 2nd August, 2015.

Papers Published

Book Chapter – 01

1. Sujay D. Mainkar and S.P. Mahajan, **"Performance Comparison for EMD based Classification of Unstructured Acoustic Environments Using GMM and k-NN Classifiers,"** Chapter 8 in **"Advances in Computing Applications", Springer Singapore**, edited by Dr. Amlan Chakrabarti , Dr. Neha Sharma and Dr. Valentina Emilia Balas, pp. 123 – 135, 2017, ISBN 978-981-10-2630-0; DOI 10.1007/978-981-10-2630-0_8.

Papers Presented/Published in National / International Journals - 02

International Journals – 02

1. S. D. Mainkar, **"Fuzzy based routing mechanism for lifetime boosting in wireless sensor networks,"** International Journal for Science and Advance Research in Technology (IJSART), Volume 4, Issue 1, January 2018, pp. 741-747 (ISSN: 2395-1052).

2. S. D. Mainkar, **"Performance Comparison of EMD based Noise Classification for different SNR using GMM and k-NN Classifiers,"** International Journal of Emerging Technology and Advanced Engineering, (ISSN: 2250-2459, ISO 9001:2008 Certified Journal, Volume 5, Issue 9, September 2015), pp. 197-203.

Papers Presented/Published in National/ International Conferences - 03

International Conferences – 02

1. S. D. Mainkar, Dr. S. P. Mahajan, ***"EMD based Efficient Discrimination of Real-world Environmental Sounds using SVM classifier,"*** **IEEE International Conference on Information Processing (ICIP-2015),** Vishwakarma Institute of Technology, Pune, 16-19 December, 2015.

2. A. A. Tatugade, S. D. Mainkar, ***"A Bandwidth sharing approach to improve licensed spectrum utilization in broadband communication,"*** Proceedings of **International Conference on Emerging Technologies and Applications in Engineering, Technology and Sciences (ICETAETS-2008),** Volume-II, pp. 1682-1687, ISBN: 978-81-906220-1-1, Saurashtra University, Rajkot (Gujarat), 13-14 January, 2008.

National Conferences – 01

1. S. D. Mainkar, Dr. S. P. Mahajan, ***"Optimized Feature Set Extraction using Empirical Mode Decomposition for Classification of Noisy Environmental Conditions,"*** Proceedings of **IETE and IE approved National Conference on Signal and Data Processing (NCSDP-2015),** pp. 33-38, Army Institute of Technology, Alandi, Pune, 11 July, 2015.

Number of Workshops, Seminars, STTPs, FDPs Attended – 14

STTPs and FDPs

1. Attended a One Week AICTE – ISTE approved STTP on '***Digital Image Processing-Issues, Challenges and Research Avenues'*** from 4th June, 2018 to 8th June, 2018.

2. Attended Faculty Development Program on **'*Self-Dependence and Advantages of Technology and Digital Marketing'*** at Finolex Academy of Management & Technology, Ratnagiri on 23rd September, 2016, conducted by Lemures Technologies and IEEE Delhi.

3. Attended an AICTE approved Four-week Faculty Development Program on **'*Use of ICT in Education for Online and Blended Learning'*** conducted by IIT Bombay under the National Mission on Education through ICT (MHRD, Govt. of India) at Finolex Academy of Management & Technology, Ratnagiri from 2nd May to 10th July, 2016.

4. Attended Two week AICTE sponsored Faculty Development Program on *'Select Topics in Signal Processing and Machine Intelligence with Hands-on'* conducted during 23rd May to 3rd June, 2016 organized by Department of Electronics and Telecommunication Engineering, College of Engineering, Pune.

Conferences and Seminars

1. Attended a **Seminar** on *'Introduction to Speech Technology-Automatic Speech Recognition and Text-to-Speech Synthesis'* conducted by C-DAC Experts organized by Department of Electronics and Telecommunication Engineering, Finolex Academy of Management and Technology, Ratnagiri on 31st January, 2018.

2. Attended 2nd **National Conference** on '*Recent Advances in Science and Technology (RAST-2K16)* organized by Finolex Academy of Management and Technology, Ratnagiri from 17th to 18th February 2016.

Two Week or One Week Workshops

3. Attended **One Week Workshop** on **"Funding Schemes Available for Research Proposals"** organized by Research Development and Consultancy cell (RDCC) of Finolex Academy of Management and Technology, Ratnagiri from 13th February to 23rd April 2016

4. Attended a Five-day IEEE workshop on **'*Research Issues and Hands-on in Wireless Sensor Network including NS-2'*** at Maharashtra Institute of Technology, Pune organized under IEEE Communication Society (Pune Chapter) during 7th to 11th April, 2015.

5. Attended a Two-Week ISTE workshop on *'Basic Electronics'* conducted by IIT Bombay under the National Mission on Education through ICT (MHRD, Govt. of India) at Finolex Academy of Management & Technology, Ratnagiri from 28th June to 8th July,2011.

Workshops

6. Attended Two days' workshop on **'*Cisco Networking'*** at Finolex Academy of Management & Technology, Ratnagiri on 3rd and 4th February, 2016 organized jointly by TechKriti IIT Kanpur and Azure Skynet.

7. Attended Two days' workshop on **'*Mobile Antennas-Fundamentals, Design, Fabrication and Testing'*** at Finolex Academy of Management & Technology, Ratnagiri on 1st and 2nd August, 2015.

8. Attended National workshop on **'Microwave, Antenna and Propagation for Modern Wireless Communications'** at Pune Institute of Computer Technology, Pune on 7th and 8th February, 2014.

9. Attended a Two-day workshop on **'*Virtual Labs, Electronics'*** Conducted by IIT Bombay in association with MHRD, (Govt. of India) at Finolex Academy of Management & Technology, Ratnagiri on 9th and 10th April, 2011.

10. Attended a Two-day workshop on **'*Simulation of Electronic Circuits and Power Electronics Systems using SEQUEL'*** Conducted by Prof. M. B. Patil, IIT Bombay at Finolex Academy of Management & Technology, Ratnagiri on 31st October and 1st November, 2009.

11. Attended One day workshop on **'Quality Education in Engineering and Technical Institution'** at Finolex Academy of Management & Technology, Ratnagiri on 24th January, 2009.

12. Attended One day workshop on **'Quality & Research in Engineering Education'** at Rajendra Mane College of Engineering and Technology, Ambav, Devrukh on 7th April, 2008.

Professional Membership

1. Indian Society of Technical Education (I.S.T.E): Life Member.

2. The Society of Digital Information and Wireless Communications (SDIWC).

3. International Association of Engineers (IAENG).

College Exam Duties

1. Worked as a **Senior Supervisor** for **summer 2018 Exam and summer 2011 Exam.**

2. Carried out exam related duties such as **Moderator, Examiner and External Examiner** for conducting theory, practical and oral exam as appointed by Board of Examination, Mumbai University.

3. Worked as a **result-checking committee member**.

4. Worked as a **coordinator** for scheduling and arrangement for conduction of departmental university Practical/Viva Exam.

5. Worked as a **scrutiny committee member**.

6. Worked as an **Invigilator** for University theory exams.

Other Experience

College Level Committees

1. Working as a **departmental coordinator** of **Website Administration committee** (WAC) of Finolex Academy of Management and Technology, Ratnagiri.

2. Working as a **Core Committee Member** of result analysis committee.

3. Working as a **departmental coordinator** of **result analysis committee.**

4. Worked as departmental organizing **committee member** in 2nd National Conference on **"Recent Advances in Science and Technology" (RAST-2K16).**

5. Working as a department coordinator for **NAAC Criteria-3 committee.**

6. Working as a **departmental coordinator** of **Library Advisory Committee (LAC).**

7. Worked as **Committee Member** of **AICTE Extension of Approval (EOA) committee** in January 2017.

Judge Panel / Staff Selection Committee / Subject Expert

1. Organized a workshop and worked as a **Coordinator** for 3-days workshop on *'Networking Fundamentals with Hands-on using NS-2/NS-3 and Unified Communication'* at Finolex Academy of Management & Technology, Ratnagiri from 27th January to 29th January, 2017.

2. Worked as **Expert Judge for Project Presentation event of National Level Technical Symposium *"Scintilla 2K16"*** held on 18th & 19th March, 2016 at RMCET, Devrukh.

3. Worked as **Departmental Coordinator** for Two days workshop on **'Mobile Antennas-Fundamentals, Design, Fabrication and Testing'** at Finolex Academy of Management & Technology, Ratnagiri on 1st and 2nd August, 2015.

4. Worked as **Organizing Committee member** for a Two-day workshop on **'Simulation of Electronic Circuits and Power Electronics Systems using SEQUEL'** conducted by Prof. M. B. Patil, IIT Bombay at Finolex Academy of Management & Technology, Ratnagiri on 31st October and 1st November, 2009.

Subject Taught

Sr. No.	Name of the Subject	Year/Branch/Semester	Experience
1.	Internet and Voice Communication	B.E.-E & TC (Sem - VIII)	3 Years
2.	Optical Communication and Networks	B.E.-E & TC (Sem - VII)	4 Years
3.	RF Modeling and Antennas	T.E.-E & TC (Sem - V)	2 Years
4.	Communication Engineering	T.E.-Electrical (Sem - V)	1 Year
5.	Satellite Communication	B.E.-E & TC (Sem - VIII)	1 Year
6.	Antenna and Wave Propagation	T.E.-E & TC (Sem - VI)	3 Years
7.	RF Circuit Design	T.E.-E & TC (Sem - V)	1 Year
8.	Discrete Time Signal Processing	B.E.-E & TC (Sem - VII)	1 Year
9.	Signals and Systems	T.E.-E & TC (Sem - V)	1 Year
10.	Electrical Networks	S.E.-E & TC (Sem - III)	3 Years
11.	Electromagnetic Wave Theory	S.E.-E & TC (Sem - IV)	6 Years
12.	Electromagnetic Fields and Waves	T.E.-Electrical (Sem - V)	1 Year
13.	Principles of Communication Engineering	S.E.-IT (Sem - IV)	2 Years
14.	Communication Systems	T.E.-E & TC (Sem - VI)	1 Year
15.	Electronic Hardware Workshop	T.E.-E & TC (Sem - V)	3 Years