

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

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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 – 10.5 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. 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.
2. 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.
3. 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.
4. 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 - 01

International Journals – 01

1. 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 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.
2. 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.
3. 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

4. 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

5. 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
6. 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.
7. 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

8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. Attended One day workshop on '**Quality Education in Engineering and Technical Institution**' at Finolex Academy of Management & Technology, Ratnagiri on 24th January, 2009.
14. 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 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 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 RM CET, 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)	2 Years

2.	Optical Communication and Networks	B.E.-E & TC (Sem - VII)	3 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)	7 Years
12.	Electromagnetic Fields and Waves	T.E.-Electrical (Sem - V)	1 Year
13.	Principles of Communication Engineering	S.E.-IT (Sem - IV)	1 Year
14.	Communication Systems	T.E.-E & TC (Sem - VI)	1 Year
15.	Electronic Hardware Workshop	T.E.-E & TC (Sem - V)	3 Years