

STAFF PROFILE



Dr. Renuka Gaurav Bhandari

Assistant Professor

Electronics & TeleCommunication

rbhandari@aitpune.edu.in

Date of Joining
02/08/2009

Nature of Appointment
Regular

Educational Details

Qualification	Degree	University	Grade	Year
Graduation	BE	RGPV	72.47	2002
PG	ME(Digital Communication)	DAVV	76.9	2005
Doctoral	PhD	SPPU		2019

Areas of Interest

Experience Details

Type	Duration/ Period	Designation/ Organisation Name	Brief Job Profile
Total : 2.80 years Teaching : 2.80 years Research : 0.00 years Industry : 0.00 years			
Educational	0.00 Years 17/08/2009- till date	ASSt. professor AIT, Pune	To conduct Theory and practical classes, debate club incharge, Communication Lab incharge, different department and college activities incharge
Educational	0.40 Years 24/1/2008 to 31/5/2008	lecturer AIT, Pune	To conduct Theory and practical classes
Educational	0.80 Years 1/6/2007 to 11/1/2008	Senior training officer NTTF, Jamshedpur	To give training of Electronics & communication system
Educational	0.60 Years 21/7/2006 to 21/1/2007	lecturer SDBCT, Indore	To conduct theory and practical classes
Educational	1.00 Years 7/7/2005 to 17/7/2006	lecturer GSITS, Indore	To conduct theory and practical classes

Journal Publications

- Renuka Bhandari, (2020). [Design and Implementation of Black Box for Security and Monitoring of Automobile](https://www.researchtrend.net/ijet/ijet.php). *International Journal on Emerging Technologies* . 11(2), 825-828. ISBN/ ISSN No : 0975-8364. URL : <https://www.researchtrend.net/ijet/ijet.php>.
- Renuka Bhandari, (2020). [Secure Radio Frequency Transmission for Paperless Voting System](http://www.ijitee.org/wp-content/uploads/papers/v9i7/G5626059720.pdf). *International Journal of Innovative Technology and Exploring Engineering (IJITEE)* . 9(7), 842-846. ISBN/ ISSN No : 2278-3075. URL : <http://www.ijitee.org/wp-content/uploads/papers/v9i7/G5626059720.pdf>.
- Renuka Bhandari, Sangeeta Jadhav, (2018). Spectral Efficient Blind Channel Estimation Technique for MIMO-OFDM Communications . *International Journal of Advances in Applied Sciences*. 7(3), 286-297. ISBN/ ISSN No : ISSN:2252-8814. URL : www.iaescore.com/journals/index.php/IJAAS/article/view/13547.
- Renuka Bhandari, Sangeeta Jadhav, (2018). [Novel Spectral Efficient Technique for MIMO-OFDM Channel Estimation with Reference to PAPR and BER Analysis](#). *Wireless Personal Communications*. in

press(in press), DOI 10.1007/s11277-018-6077-7. ISBN/ ISSN No : 1572-834X. URL : <https://www.springerprofessional.de/en/novel-spectral-efficient-technique-for-mimo-ofdm-channel-estimat/16253782>.

5. Renuka Bhandari, Sangeeta Jadhav, (2018). [Insight on Blind Channel Estimation of MIMO- OSTBC using Higher Order Statistics with Kalman Filter \(HOS-KF\)](#) . *Helix the scientific explorer*. 8(4), 3431-3437 . ISBN/ ISSN No : 2319 – 5592. URL : <http://helix.dnare.in/wp-content/uploads/2018/08/3431-3437.pdf>.
6. Renuka Bhandari, Sangeeta Jadhav, (2018). [Spectral Efficient Blind Channel Estimation Technique for MIMO-OFDM Communications](#) . *Journal of Advanced Research in Dynamical and Control Systems*. 10 (12), 771-785. ISBN/ ISSN No : 1943-023X. URL : <http://www.jardcs.org/abstract.php?archiveid=5536>.
7. Renuka Bhandari, Sangeeta Jadhav, (2018). [Spectral and Power Efficient Blind Channel Estimation Technique for MIMO-OFDM Communications](#) . *Jour of Adv Research in Dynamical & Control Systems*. 10(8), 93-106. ISBN/ ISSN No : 1943-023X. URL : <http://www.jardcs.org/abstract.php?archiveid=5401>.
8. Renuka Bhandari, Sangeeta Jadhav, (2017). [Blind Channel Estimation using Novel Independent Component Analysis with Pulse Shaping for Interference Cancellation](#). *Springer's series -Studies in Computational Intelligence*. 722(1), 45-56. ISBN/ ISSN No : 1860-949X. URL : https://link.springer.com/chapter/10.1007/978-3-319-61388-8_3.
9. Renuka Bhandari, (2016). Centralized security system based on IoT. *International Journal of Research in Advance Engineering*. 2(3), 15-20. ISBN/ ISSN No : 2395 - 1648. URL : www.knowledgescuddle.com/index.php/IJRAE.
10. Renuka Bhandari, (2016). Wireless Network For Unmanned Ground Vehicle. *International Journal of Research in Advance Engineering*. 2(3), 21-27. ISBN/ ISSN No : 2395 - 1648. URL : www.knowledgescuddle.com/index.php/IJRAE.
11. Renuka Bhandari, (2015). MEMS Based Safe Arm and Fire Device (SAM) . *Journal of Innovative and Emerging Research in Engineering* . 2(4), 37-39. ISBN/ ISSN No : 2394 – 5494 . URL : www.ijere.com/FinalPaper/FinalPaper20155311252821.pdf.
12. Renuka Bhandari, (2014). Controlling Algorithm for a Remote Head Module Carrier in Nuclear Environment. *International Journal of Electrical, Electronics and Data Communication*. 2(5), 76-80. ISBN/ ISSN No : 2320 -2084. URL : www.ijeedc.iraj.in/volume.php?volume_id=53.
13. Renuka Bhandari, (2014). ZIGBEE and GSM Based Patient Monitoring System. *International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering*. 3(1), 6664-6669. ISBN/ ISSN No : 2320 – 3765. URL : www.ijareeie.com/upload/2014/january/18J_ZIGBEE.pdf.

Conference Publications

1. FD, (2019). RTE. *TERT*. RTH(FH), DFG. ISBN/ ISSN No : FDG.
2. Sangeeta Jadhav, Renuka Bhandari, (2017). [Blind Channel Estimation using Novel Independent Component Analysis with Pulse Shaping for Interference Cancellation](#) . *15 th International Conference on Software Engineering Research, Management and Application (SERA 2017)*. -(), 45-56. ISBN/ ISSN No : ISBN 1860-949X .
3. Renuka Bhandari, Sangeeta Jadhav, (2015). [A literature Review on BSS Approaches for MIMO -OFDM Communication](#). *International Conference, ICCUBEA (IEEE sponsored)*. 10.1109/ICCUBEA.201(NA), 238-241. ISBN/ ISSN No : 978-1-4799-6892-3 .
4. Renuka Bhandari, (2014). Controlling Algorithm for a Remote Head Module Carrier in Nuclear Environment. *International Conference, ICE2CSM2E*. x(x), 76-80. ISBN/ ISSN No : 2325-9418.
5. Renuka Jain, (2006). [Speech Pitch Shifting Using Complex Continuous Wavelet Transform](#). *India Conference, 2006 Annual IEEE*. 10.1109/INDCON.2006(10.1109/INDCON.2006), x. ISBN/ ISSN No : 2325-9418 .

Book Chapters

1. renuka bhandari, sangeeta jadhav, (2017). [Blind Channel Estimation Using Novel Independent Component Analysis with Pulse Shaping for Interference Cancellation](#). *Software Engineering Research, Management and Applications*. Springer, Cham. ISBN/ ISSN No : 978-3-319-61388-8.

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1. RenukaBhandari, Sangeeta Jadhav, (2018). L -76176/2018. [Investigation of Blind Source Separation Approaches for MIMO communication Sytems](#). 21/06/2018, India.

Seminar

1. Seminar on “Mathematical Modeling and Simulation of Tank weapons Systems (Organized),

- Mathematical Modeling and Simulation of Tank weapons Systems, 2018, AIT, Pune
- 1 day seminar on "Test & Measurement" (Attended), Test & Measurement, 2017, JW Marriott Hotel Pune
 - 1 day seminar (Attended), Test & Measurement, 2017, Pune
 - Best in Test with Agilent Technology (Attended), Best in Test with Agilent Technology, 2013, Pune

Workshop

- 2 week FDP (Attended), Paradigm shift in higher education institutes: Opportunities and Challenges, 2020, DYPIT Pune
- 1 week FDP on Python programming with industry perspective (Attended), Python programming with industry perspective, 2019, AIT Pune
- One and a half week FDP on Python (NPTEL) (Attended), Python, 2019, IIT Madras
- FDP attended for Audio Video Engineering (Attended), Audio Video engineering revised syllabus 2015, 2018, VIIT and SPPU.
- One day workshop attended on "How to conduct counseling (Attended), How to conduct counseling , 2018, AIT, Pune
- Foundation Program in ICT for Education- (FDP101x) (Attended), Pedagogy for Online and Blended Teaching-Learning Process-(FDP201x), 2018, Online face to face (IIT Bombay), AIT Pune
- 3 days FDP for faculty under the aegis of BoS, SPPU Pune (Organized), ITCCN, 2017, AIT, Pune
- 5days workshop on Computer network and labview (Attended), Computer network and LAB view, 2017, AIT Pune
- Workshop for TE and BE Students (Organized), Computer networks & Labview, 2017, AIT Pune
- One Day FDP on Maplesoft Product Overview- Level1 (Attended), One Day FDP on Maplesoft Product Overview- Level1, 2017, AIT Pune
- 3 Days Workshop on SE E&TC Revised Syllabus (Attended), Digital Electronics, 2016, BS COE, Narhe Pune
- FDP on BE E&Tc revised Syllabus (Attended), Audio-Video Engg., 2016, BOS, SPPU with Dr. D. Y. Patil IOET Pune
- Two-Week ISTE workshop (Attended), Control Systems , 2014, D Y patil (on line IIT Khargpur)
- 3 days Faculty orientation workshop of TE (E&TC) revised syllabus 2012 course under UOP. (Attended), Digital Communication, 2014, MES COE Pune
- 2 days National Workshop (Attended), Software define Radio, 2014, Wadia college Pune

Research Grants

Title Of Project	Funding Agency	Duration		Sanctioned Amount	Role of Investigator
Study and implementation of MIMO based wireless communication system.	BCUD Pune	02/12/2013	03/10/2015	140000.00	Principal Investigator

Consultancy

Title Of Project	Funding Agency	Duration	Sanctioned Amount	Investigator Role
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Professional Memberships

Society	Membership No	Duration	
ISTE	LM71720	09/06/2010	19/06/2069

Achievements/ Contribution

Year	Details
2020	Received appreciation letter on being selected as one of the top five performers of AIT for AY 2018-19.
2015	Won Best Result Award for BE (E & TC) Television and Video Engg. result
2003	1. Received a monthly stipend and Contingency grant from Government of India while pursuing P.G as a GATE qualified student in 2003

No of PhD Students Guided : 0
No of PhD Awarded Students : 0

No of PG Students Guided : 0