

Dr. Amit Kumar Ahuja (Electronics and Communication)

Soft Skills:Communication, Team work, Professional Ethics

Specialization

M.Tech: Digital Communication

Ph.D: BER reduction techniques at physical layer.

Area of Interest

Research: Communication Engineering, Detection mechanisms at physical layer, BER-reduction techniques, Quality of Service (QoS) at Physical Layer, Green Technologies in wired and wireless communication, Signal and Image Processing.

Technology Development: Technologies on Societal Applications

Innovation: BER reduction Techniques, Signal Processing

Technology Transfer:

Other: 2-Patents Applied

Participated - In Specialized Training / Certified Courses:

1. One Week STS on "5G Technology", NITTTR Chandigarh, Jan, 2020
2. One week Faculty development Program on "Universal Human Values and Professional Ethics" from 10-16 May, 2018 by AKTU value education cell, held at MIET, Meerut.
3. One week Faculty development Program on "Universal Human Values and Professional Ethics" from 10-17 December, 2018 by AKTU value education cell, held at MIET, Meerut.
4. Two days Conference on 'Quality of Technical Education through National Assessment and Accreditation Council', Ambedkar Institute of Advanced Communication Technology and Research, Delhi, 18-19 July, 2018.
5. A Week Workshop on "Advanced Microcontroller and Microprocessors through ICT", 14-18 Sept., 2015, ICT based workshop by NITTTR Chandigarh.
6. Wipro Mission 10x Academic Leadership Workshop, 3rd March to 6th March, 2014 at Wipro Technologies Campus, Electronics City, Bangalore.
7. 4th International Conference on "Recent Trends in Computing, Communication and

Information Technologies (OBCOMS-2011)" held at Vellore Institute of Technology (VIT), Vellore, December 9-11, 2011.

8. One day Seminar on "Intellectual Property and Innovation Management in Knowledge Era", Organised by NRDC and MIET, Meerut on 23rd Sept., 2011.
9. One week Short term course on LTE and Wi-Max at IIT Kanpur, between 9-11 May, 2011.
10. One day Workshop on Recent Trends in Image Processing at Shobhit University, Meerut on 23rd Oct., 2010.
11. One week STC on Wireless Communication at NITTTR Chandigarh, 20-24 July, 2009.
12. One day workshop on Current Trends of Cad Tools for VLSI Design conducted by C-DAC, Noida on 12th April, 2007.
13. One week short term course on Digital Signal & Image Processing conducted by IIT Roorkee, between 10-14 Dec., 2007.
14. Attended a one day seminar on VLSI Technology at MS-BIDWAY Engg. College, Distt. Latur, Maharashtra, in 2001.

Publication - Books / Chapters / Papers / Articles / Blogs:

- 1 A.K. Ahuja, Ram Chakka, "A New Receiver for a Digital Passband System with CPSPK Modulation: The STTS-CPSPK receiver", Journal of Scientific & Industrial Research, October, 2019 (SCI expanded)
- 2 Ram Chakka, A.K. Ahuja, "New Receiver for a Passband System for CFSK receiver-The STTS-CFSK Receiver", Journal of Scientific & Industrial Research, 2018 (SCI expanded)
- 3 Lavi, Amit Kumar Ahuja, "Speech Signal de-noising using Wavelet and Standard Software: Performance Evaluation and Comparison Study", Int. Conf. on Electrical, Electronics and Computer Engg. (UPCON-2018), MMMUT Gorakhpur, 2018, IEEE
- 4 P. Kumar, A.K. Ahuja, Ram Chakka, "BCH/Hamming/Cyclic coding techniques: Comparison of PAPR Reduction Performance in OFDM System", Advances in Intelligent Systems and Computing, Springer (Through ICICA-2016, 20-22 Dec., 2016) 2017 Scopus
- 5 A.K. Ahuja, R. Chakka and T.S. Pathak, "First Order Correlations in Simulated and Real

Digital Traffic: Importance, Study and Analysis", Journal of Scientific & Industrial Research (JSIR), 2016 (SCI expanded)

- 6 R. Chakka and A.K. Ahuja, "New Receivers in Digital Communications, Performance Evaluations and Comparisons", Journal of Scientific & Industrial Research (JSIR), 2015 (SCI expanded)
- 7 A.K. Ahuja and R. Chakka, "Analysis of the Performance-Improvement due to a New Receiver for Baseband Telecomns, and Development of a Fast Predictive Model", Journal of Scientific & Industrial Research, 2014 (SCI expanded)
- 8 A.K. Ahuja, R. Chakka and P.V. Krishna, "BER Reduction in Signal Receivers towards Greening of Digital Communications", International Journal of Communication Networks and Distributed Systems (IJCNDS), Inderscience, 2014 (Scopus)
- 9 A.K. Ahuja and R. Chakka, "A New method for BER Reduction and its Impact on Telecomn Performance", Journal of Scientific & Industrial Research, 2013 (SCI expanded)

Funded Projects Undertaken: UPCST

Any other information: 1. NAAC Coordinator, Assessment and Accreditation Cycle-1. Institute is accredited with

B++ grade on 26th Sept., 2018 for five years.

2. Convener, AKTU Sponsored Faculty Development Program on 'Mobile and Wireless Communication' from 15-19 June, 2018.
3. Convener, AKTU Sponsored Faculty Development Program on 'Mobile and Wireless Communication' from 15-19 June, 2018.
4. Coordinator, AICTE-CII Survey since 2017.
5. Coordinator and resource person of two weeks certification course on 'MATLAB Step-2: An Advanced Level Course on MATLAB'; 15th – 24th June, 2017, conducted for the inter-disciplinary students of MIET, Meerut.
6. Coordinator, M.Tech Programme of ECE department, MIET, Meerut from 2013 till 2017.
7. Member of Panel discussion, NITTTR Chandigarh, November, 2016..

8. Coordinator and resource person of one week certification course on 'Quick Learn Program on MATLAB'; 27th – 31st Dec., 2016, conducted for the inter-disciplinary students of MIET, Meerut.
9. Coordinator and resource person of 3 days certification course on 'Primer Workshop on MATLAB'; 23rd – 26th Sept., 2015, conducted for interdisciplinary students of Meerut Institute of Technology (MIT), Meerut.
10. Resource person of Two Days Quick Learn Workshop on 'MATLAB and its Applications in Chemical Engineering'; 16th – 17th Dec., 2014, for faculty of Chemical Engg., MIET, Meerut.
11. Organizer, 2 days Robotics workshop in ECE department, MIET in January-2014.
12. Member, departmental NBA Committee-2007, 2013.
13. Convener of AICTE sponsored National Conference on 'Emerging Technologies in VLSI (NCETVLSI-2011)' held on 18th Sept., 2011 at MIET, Meerut.
14. Organizing member of AICTE sponsored staff development program on 'Mobile Computing & Wireless Networks' conducted by IT dept in Jan. 2010, at MIET, Meerut.
15. Organizing member of AICTE sponsored staff development program on 'VLSI Design: Recent Trends and Future Aspects', conducted by ECE deptt., 8-13 Oct, 2010, at MIET, Meerut.
16. Delivered a guest lectures on 'GSM Technology' in AICTE sponsored staff development program on 'Mobile Computing & Wireless Networks', conducted by IT dept, at MIET, Meerut, 2010.