

Curriculum Vitae

Dr. Anwar Ahmad

(Last Updated: April 2019)



1. Name: Dr. Anwar Ahmad
2. Designation: Professor (Electronics & Communication Engineering)
3. Office Address: Department of Electronics & Communication Engineering, Faculty of Engineering & Technology, Jamia Millia Islamia, New Delhi-110025
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anwar_ahmad@hotmail.com
6. Date of Birth: 18.04.1959
7. Date of Joining Service in JMI: 07.09.1987
8. Field of Specialization: Communication Engineering
9. Research Interests:
 - 2G/3G/4G/5G Mobile Communication
 - Analog & Digital Communication
 - Coding Techniques
 - Speech Coding
10. Teaching Experience: 31 Years 6 Months
11. Research Experience: 20 Years
12. Languages:
 - English: Read & Write
 - Hindi: Read & Write
 - Urdu: Read & Write
13. Memberships: ISTE Life Membership Since June 198

14. Courses Taught: Under Graduate and Post Graduate Levels

- Communication Systems
- Digital Communication System
- Mobile Communication
- Optical Fiber Communication
- Antenna
- Radio, TV and Radar
- Electromagnetic Field Theory
- Signals and Systems
- Networks and Transmission Lines
- Electronic Circuit Design
- Electronic Devices and Circuits

15. Academic Qualification

Examination	Year	Board/University	Division	Subjects
PhD	2014	Jamia Millia Islamia, New Delhi	-----	Thesis Topic: "Development of Signal Processing Scheme to Enhance the Overall Performance of EDGE and GPRS Enabled GSM Receiver"
ME (E&C)	1998 Batch	Delhi College of Engineering, Delhi University, Delhi	First Division with Distinction	Thesis Topic: "Noise Performance analysis of Global System for Mobile (GSM) Communication"
B. Sc. Engg. (E&C)	1983 Batch	Aligarh Muslim University, Aligarh	First Division with Honors	Electronics & Communication Engineering
Higher Secondary	1977	Delhi Board, Fatehpuri Muslim Higher Secondary School, Fatehpuri, Chandni Chowk, Delhi-110006	First Division	Physics, Chemistry, Higher Math, Engg. Drawing

16. Professional Experience: Teaching

Job Title	Employer	From	To
Professor	Department of E&C, Faculty of Eng. & Technology, JMI, New Delhi	11.02.2018	Till Date
Associate Professor	Department of E&C, Faculty of Eng. & Technology, JMI, New Delhi	28.10.2005	10.02.2018

Head of Section (Electronics)/Reader	University Polytechnic, Faculty of Eng. & Technology, JMI, New Delhi	15.10.1998	27.10.2005
Assistant Professor/Lecturer	University Polytechnic, Faculty of Eng. & Technology, JMI, New Delhi	07.09.1987	14.10.1998

17. Professional Experience: Technical

S. No.	Project	Status	Tenure	Scope of Work
1	ISDN EPABX and Campus-wide Networking Project of JMI	Technical Coordinator	March 2002- June 2005	<ul style="list-style-type: none"> • Preparation of Tender Document • Commissioning and installation of ISDN EPABX System • Campus-wide Networking for 1300 lines of EPABX System • Supervision and Maintenance of the System
2	Technical Committee for Purchasing the EPABX System for Office of VC, JMI	Member	October 2011	<ul style="list-style-type: none"> • Shortlisting, Procuring and Installation of most suitable EPABX System for VC Office
3	Technical Committee for Smart Class Rooms Project of JMI	Member	2013-2014	<ul style="list-style-type: none"> • Propose technical specifications • Recommending the configuration of the Smart Class Rooms equipment • Preparing the Tender Document • Processing of Technical Bids of Tenders • Recommending the qualified vendors based on the Technical Bids
4	Technical Committee for Upgradation of Existing ISDN EPABX System of JMI	Co-opted Member	January 2016 – Till Date	<ul style="list-style-type: none"> • Investigation of the Existing Network for further Extension • Recommendation for Upgradation of Existing ISDN EPABX System to Server-Based System

18. Corporate Life Contribution: Administrative and Academic within JMI

S. No.	Project	Status	Tenure	Scope of Work
1	Examination Center, JMI	Tabulator	1990-2006	Tabulation of Various Courses of Faculty of Engg. & Tech., JMI
2	Entrance Test- Faculty of Engg. & Tech., JMI	Center Superintendent & Assistant Superintendent	Many Times During 2001-2008	Managing & Conducting the various Entrance Tests of Faculty in Delhi and Outside Delhi
3	End-Semester Examination-Faculty of Engg., JMI	Assistant Superintendent Examination	2004-2008	Assisted the Superintendent of Examination of Faculty of Engg., JMI
4	Curriculum Development-B. Tech & M. Tech.	Subject Expert	2005-2015	Design and Updation of Syllabi of Analog, Digital, Mobile, Optical Fiber, Modern Digital Communication and Probability Theory
5	B. Tech. Lab Establishment	Incharge and Subject Expert	2007	Communication System Lab
6	MCRC-Interview Panel for Admission	Member Expert	Several Years During 2007-2012	P. G. Diploma in Broadcast Technology
7	MCRC-Physical Verification Committee	Vice-Chancellor's Nominee/Member-Expert	2008-2012	Conducting Physical verification of the equipment for 2006-2008
8	Entrance Test-B. Tech./M. Tech./M. Sc. (Electronics)/BE (Evening)	Incharge and Tabulator	2009-2010	Managing the over-all Execution of Entrance Tests and Tabulation
9	Curriculum Development-B. Tech	Incharge	2011	Design and Updation of Over-all Course Structure of B. Tech. (E&C)
10	Sr. Sec. School, JMI	Subject Expert for Screening Committee	2014	Screening the Candidates for Audio-Visual-Aid Operator
11	Arjun Singh Center for Open & Distance Learning (ASCDOL), Jamia Millia Islamia	Hony. Joint Director (Administration)	December 2014 – January 2016	Looking after the various administrative tasks of Center
12	MCRC-P. G. Diploma	Member-Expert	2016	Review of course

	in Broadcast Technology			Content and finding the ways to further popularize the course
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19. Corporate Life Contribution: Administrative and Academic Outside JMI

S. No.	Project	Status
1	AMU, Aligarh	Practical Examiner and Member of Interview Panel
2	Dayal Bagh Educational Institute, Agra	Paper Setter for B. Tech. (E&C, Electrical)
3	Teerthanker Mahaveer University, Moradabad	Paper Setter for M. Tech (E&C)
4	IGNOU DD Gyan Darshan	Expert Member for Evaluation of Video Lectures on Various Subjects
5	UPSC	Expert Member of Interview Panel for Selection for Various Technical Posts
6	DRDO	Expert Member of Interview Panel for Selection for Various Technical Posts
7	EDCIL	Technical Expert for Evaluation of Various Technical Assignments
8	Central Schools	Expert Member of Interview Panel for Selection for Various Technical Posts

20. PhD Guidance

S. No.	Name of Scholar	Date of Registration	Title of Thesis	Status
1	Saurabh Sachdeva	01.10.2014	Design of Microwave Antenna	In Progress
2	Vandana Pundir	08.10.2014	An Investigation to improve the performance of MIMO-OFDM Systems	In Progress
3	Neeraj Kumar	09.10.2014	Novel Resource Allocation in LTE-A Networks	Submitted/ January 2019
4	Arshida Khan	28.09.2015	Enhancement of Bandwidth and Energy Efficiency of Video Broadcasting Services in LTE-A	Dropped Out
5	Nitin Garg	29.09.2015	Performance Analysis of Optimum Channel Model for FSO Communication	In Progress
6	Sandeep Gulia	07.10.2015	Some Techniques for Performance Improvement in CoMP Based LTE-A	In Progress

			Heterogeneous Networks	
7	Naveen Kumar	06.02.2019	Intelligent Mobile Communication: When 5G Meets Artificial Intelligence	Course work

21. M. Tech. Dissertation

S. No.	Name of Scholar	Title of Thesis	Date of Defense
1	Salman Ahmad Siddiqui (16MEL012)	“Comparative Analysis of Propagation Path Loss Models in LTE Networks”	August 2018
2	Asif Iqbal (16MEL003)	“Design and Simulation of Multiband Microstrip Fed Dipole Loop Antenna”	August 2018
3	Neda Fatima (17MEL013)	“Comparative Performance Analysis of various M-ary Digital Modulation Schemes with Digital Audio Transmission through AWGN Channel”	In Progress

22. Research Publications: International Journals

1. **Anwar Ahmad**, M. T. Beg, “An Investigation into the Performance Enhancement and Salient Features of AMR-WB Speech Codec Used in GSM Communication”, IOSR-JECE, Volume 3, Issue 3, pp. 38-40, Sep-Oct. 2012
2. Neeraj Kumar, **Anwar Ahmad**, “Bell Curve Based Resource Scheduling in LTE”, AJCS, Volume 1, Issue 1, 2017
3. Neeraj Kumar, **Anwar Ahmad**, “Resource Allocation in LTE Advanced for Different Services”, AJCS, Volume 1, Issue 2, 2017
4. **Anwar Ahmad**, “Simple & Scalable Resource Scheduling in LTE-Advanced Network”, International Journal of Electronics Engineering, Volume 10, Issue 1, pp. 5-8, Jan 2018-June 2018
5. Neeraj Kumar, **Anwar Ahmad**, M.T. Beg, “Delay based Scheduling Technique in LTE Advanced Network”, International Journal of Computer Science & Communication, Volume 9, Issue 1, pp. 173-177, Sept 2017-March 2018
6. Neeraj Kumar, **Anwar Ahmad**, M.T. Beg, “Unified Utility Function for Resource Allocation in 4G Communication Network”, International Journal of Electronic Engineering, Volume 10, Issue 1, pp.43-46, Jan 2018-June 2018

7. Nitin Garg, **Anwar Ahmad**, “A new Model of Free Space Optical Communication using Mach Zehnder”, International Journal of Computer Science & Communication Volume 9, Issue 1, pp. 178-181, Sept 2017-March 2018
8. **Anwar Ahmad**, Sanjiv Kumar Gupta, Mayank Kumar, Ravendra Singh, “CDTA Based Analog Multiplier”, International Journal of Electronics Engineering, pp. 47-50, Volume 10, Issue 1, Jan 2018-June 2018
9. Neeraj Kumar, **Anwar Ahmad**, “Rate Allocation for Mixed Traffic Users in Relay Based Communication Network”, Journal of Engineering Technology, Volume 7, Special Issue (Internet of Things), pp. 96-105, Oct. 2018
10. Neeraj Kumar, Shashank Awasthi, **Anwar Ahmad**, “Adaptive Rate Allocation Technique for Mixed Traffic Users in Communication Network”, International Journal of Engineering & Technology, Volume 7, pp. 388-392, 2018
11. Nitin Garg, **Anwar Ahmad**, “Outage Analysis of Optical Wireless Communication over Turbulent Channel by Using Misalignment Fading Model Given by Beckmann Distribution”, Journal of Engineering Technology, Volume 8, Issue 1, pp. 343-355, Jan. 2019
12. Nitin Garg, **Anwar Ahmad**, “Optical Wireless Communication: Atmospheric turbulence and pointing error models”, JETIR, Volume 6, Issue 4, pp. 201-210, April 2019

23. Conferences

1. Neeraj Kumar, **Anwar Ahmad**, Dinesh Prasad, “Survey of downlink control channel resource allocation techniques in LTE”, Annual IEEE India Conference (INDICON), Jamia Millia Islamia University, New Delhi, Electronic ISSN: 2325-9418, pp. 1-5, 17-20 December 2015
2. Vandana Pundir, **Anwar Ahmad**, Dinesh Prasad, “Study of some peak-to- average power ratio reduction techniques in MIMO-OFDM system”, Annual IEEE India Conference (INDICON), Jamia Millia Islamia University, New Delhi, Electronic ISSN: 2325-9418, pp. 1-6, 17-20 December 2015
3. Dinesh Prasad, **Anwar Ahmad**, Abhinav Shukla, Apratim Mukhopadhyay, Bharat Bhushan Sharma, Mayank Srivastava, “Novel VDCC based low pass and high pass Ladder filters”, Annual IEEE India Conference (INDICON), Jamia Millia Islamia University, New Delhi, Electronic ISSN: 2325-9418, pp. 1-3, 17-20 December 2015

4. Neeraj Kumar, **Anwar Ahmad** and Dinesh K. Singh, "Priority Based Power Allocation in a Mobile Communication Network", International Conference on Power Energy, Environment and Intelligent Control (PEEIC), Greater Noida, India, pp. 713-716, 13-14 April 2018

24. Invited Talks

1. "Applications of Random Variables and Random Processes in Analog and Digital Communication", HMR Institute of Technology & Management, Hamidpur, Delhi-110036, May 14, 2014
2. "Issues Related to Video Broadcast in LTE-A System", SAMALKHA Group of Institutes, SGI Campus, NH-1, Delhi-NCR, August 2, 2014
3. "Evolution of Mobile Communication : 0G To 4G", HMR Institute of Technology & Management, Hamidpur, Delhi-110036, February 9, 2015
4. "Security Aspects of LTE And LTE-A", HMR Institute of Technology & Management, Hamidpur, Delhi-110036, March 9, 2015
5. "Resources Allocation in LTE-A System", SAMALKHA Group of Institutes, SGI Campus, NH-1, Delhi-NCR, March 5, 2016

25. Conference Chair

1. Session Chair, IEEE INDICON 2015, 17-20 December, D/o Electrical Engineering, JMI, New Delhi-110025

26. Paper Reviewer

1. IEEE INDICON 2015, 17-20 December, D/o Electrical Engineering, JMI, New Delhi-110025

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