Dr. Wasim Arif

Department: ECE
Assistant Professor (Grade-I)
Phone: 9435730057
Email: arif.ece.nits[at]gmail[dot]com

Alternate E-mail ID:	arif.ece.nits[at]gmail[dot]com
Date of Joining:	2010-05-10
URL of Web Profile:	http://www.nits.ac.in/departments/ece/ece.php

Academic Qualifications	
Qualifications Details :	PhD (NIT Silchar), ME(Jadavpur University), BE (Burdwan University)
Currently Teaching Subject:	Digital Communication Sem-V, Basic Electronics -Sem-I, Digital Electronics, Sem-II, Computer Networks, MTech

Experience	
Experience Duration:	16 years 7months
Experience Description:	Lecturer: 5 years Sr. Lecturer: 2 years Assistant Professor: 9 years 7 months
Area of Interest/Specialization :	Wireless communication and Technology, Information Theory and Coding, Cognitive Radio, Energy Harvesting and Rectenna, 5G communications
Teaching Interests :	Wireless Communication, Digital Communication, Signals and System, Probability and Statistics, Telecommunication Switching network, Computer networking, Digital Electronic Circuits
Research Interests :	Wireless Communication, Cognitive Radio, Spectrum Sharing and Mobility, Resource Allocation, Signal processing for bio-medical imaging, IOT and ML based system design
Administrative Interests :	Assosciate Dean (Students Welfare), Nodal Officer Procurement, TEQIP-III, NIT Silchar, Technical Coordinator of IITB remote center, Member DUPC, Faculty Advisor-VP(Gymkhana)

Biographical Sketch :	B. Tech (University of Burdwan), M. E. (Jadavpur University), Ph. D (NIT Silchar) Mr. Wasim Arif received the B.E degree Electronics and Communication Engineering from University of Burdwan (first class first in ECE) M. E. from Jadavpur University and PhD degree in Electronics and Telecommunication Engineering from NIT Silchar. I worked as Lecturer in ECE in BIET Suri from 2003 to 2008 and as Sr. Lecturer in the same institute from 2008 to 2010. I joined NIT Silchar as an Assistant Professor in 2010. Presently I am promoted to Assistant Professor (Grade-I). I have received some projects from MeitY, DHE, and NRDC. I am working on a project in collaboration with IIT Kgp. I like to play cricket and football and like to travel. Interacting with people makes me happy and I like to drink tea in the roadside dhaba/ kiosk/shop.
Awards/Achievements :	First Class First in BE
P.G. Scholars Guided:	1. Satya Narayan Mishra 2. B Prashanth Kumar 3. Govindreddy Gari Sachin Reddy 4. Shanidul Hoque 5. Sanjoy Debnath 6. Deepak Agarwal` 7. Nshimiyimana Arcade (International Student) 8. Debajyoti Datta 9. Mohd Azmal 10. Shashank Shekhar 11. Chandrasekhar Rai 12. Manash Kumar Sonowal 13. Ananad Jee 14. Raktim Acharjee 15. Deepak Kumar (Ongoing)
Ph.D. Scholars Guided:	Rinku Rabidas -Completed :: Shanidul Hoque -Completed :: Sanjoy Debnath-Ongoing :: Banani Talukdar- Ongoing :: Amit Dey-Ongoing :: Ravi Singh-Ongoing :: Arnab Kundu (QIP-July-2019)
Projects:	1. NRDC-NITS-IFC: NRDC, New Delhi (Ongoing), PI 2. Development of National Disaster Spectrum (NDS) and Disaster Communication Backbone Architecture (DiCoBA) with prototype development (On-going), MeitY, Co-PI 3. PMMM NMTT-Innovation, DHE, GoI (Ongoing), PI 4. IEDC, DHE, DST, GoI (Ongoing), Co-PI 5. Start Up Center, DST, MHRD, GoI, (Ongoing), PI 6. NRC, PMMMNMTT, DHE, GoI (Ongoing), PI

Book / Chapters Published :	Spectrum Handoff In Cognitive Radio: Modeling And Analysis, LAP LAMBERT Academic Publishing OmniScriptum AraPers GmbH Haroldstraße 14, D-40217 Düsseldorf, ISBN (978-620-2-05379-2

Journals (International):	1. Anand Jee, Shanidul Hoque, Wasim Arif, "Performance Analysis of Secondary Users under Heterogeneous Licensed Spectrum Environment in Cognitive Radio Ad Hoc Networks", Annals of Telecommunications, Springer(DOI: 10.1007/s12243-020-00761-8) 2. K.Panda, S.Das, D.Sen,W.Arif,Design and Deployment of UAV- Aided Post-Disaster Emergency Network, IEEE Access 3. Shanidul Hoque, Wasim Arif, "Performance analysis of spectrum handoff under heterogeneous spectrum environment in ad hoc and centralized CR networks", Elsevier Ad Hoc Networks, Volume 91, 2019, 101877, ISSN 1570-8705, https://doi.org/10.1016/j.adhoc.2019.101877. 4. Shrayan Das, Kirtan Gopal Panda, Debarati Sen & Wasim Arif, "A Survey of National Disaster Communication Systems and Spectrum Allocation - an Indian Perspective", IETE Technical Review, Jan, 2019, DOI: 10.1080/02564602.2019.1566030 5. Rinku Rabidas, Jayashree Chakraborty, Abhishek Middya, Wasim Arif, “Multi-resolution Analysis of Edge-Texture Features for Mammographic Mass Classification”, Journal of Circuits, Systems, and Computers (JCSC), doi.org/10.1142/S021812662050156X 6. S. Hoque, S. Shekhar, D. Sen, and W. Arif, “Analysis of Handoff Delay for Proactive Spectrum Handoff Scheme with PRP M/G/1/K Queuing System in Cognitive Radio Networks”, IET Communications, 2019. https://doi.org/10.1049/iet-com.2018.5687 (in press). (IF: 1.443) 7. Shanidul Hoque, Debarati Sen, Wasim Arif," Impact of residual time distributions of spectrum holes on spectrum handoff performance with finite switching delay in cognitive radio networks," , AEU - International Journal of Electronics and Communications (SCI), Volume 92, 2018, Pages 21-29, ISSN 1434-8411, 8. S.Hoque and W. Arif, "Impact of Secondary User Mobility on Spectrum Handoff under generalized residual time distributions in Cognitive Radio Networks," International Journal of Electronics and Communications (AEÜ), 2018. DOI: 10.1016/j.aeue.2018.01.031 (Impact factor: 1.147) (accepted, in

	press) 9. S. Hoque and W. Arif, "Performance analysis of cognitive radio networks with generalized call holding time distribution of secondary user," Telecommunication Systems, vol. 66, no.1, pp. 95-108, 2017, (Impact factor: 1.542). 10. W. Arif, S. Hoque, D. Sen and S. Baishya, "A Comprehensive Analysis of Spectrum Handoff Under Different Distribution Models for Cognitive Radio Networks", Wireless Personal Communication (WPC), Springer, vol. 85, No. 4, pp. 2519-2548, 2015 11. S. Hoque, W. Arif, D. Sen, and S. Baishya, "Analysis of Spectrum Handoff under General Residual Time Distributions of Spectrum Holes in Cognitive Radio Networks," Journal of Information Science and Engineering (JISE), 2017. (Impact factor: 0. 414) (accepted, in press) 12. Wasim Arif , Dhrubjun Nath Saikia, S. Baishya , "An Adaptive Spectrum Sensing Model for Cognitive Radio Application ", IJSCE, ISSN: 2231-2307, Volume-4, Issue-1, March 2014, PP- 171 – 176 13. Wasim Arif, Sanjoy Debnath, Srimanta Baishya, "Optimization of secondary user capacity in Dual Threshold Scheme in Cognitive Radio Using Evolutionary Algorithm", International Journal of Innovations in Engineering and Technology, Volume 5 Issue 3 June 2015, pp 215-224, ISSN: 2319 – 1058. 14. S. Debnath, S. Reddy, S. Hoque, W. Arif, and S. Baishya, "Optimization of Spectrum Handoff Probability in Cognitive Radio Networks", Discovery Journal, vol. 46, no. 213, pp. 121-127, Discovery, 2015.

Journals (National):	
Conferences (International):	1. Shrayan Das, Kirtan Gopal Panda, Debarati Sen, Wasim Arif, "Maximizing Risk-aware Last-Minute Inter-Datacenter Backup with Progressive Disasters", IEEE-ICC '20, Jun 7-11, Dublin , Ireland, pp. 1-6, 2020. 2. S. Das, K. Panda, D.Sen, W. Arif,"Minimizing Last- Minute Inter- Datacenter Backup with Risk- Awareness",IEEE GLOBECOM 2019 3. Sanjoy Debnath, W. Arif, D. Sen, S. Baishya,"Improved Self-adaptive Differential Evolution Based Throughput Maximization of Energy Harvesting Cognitive Radio Network",9 th International Conference on Soft-Computing And Problem Solving (SocPros-2019) 4. Deepak Kumar, Banani Talukdar, Wasim Arif,"Performance analysis of Prediction based Sensing in Energy Harvesting Cooperative CRN", Second International Conference on Advanced Computational and Communication Paradigms (ICACCP-2019) 5. Deepak Kumar, Banani Talukdar and W. Arif,"Impact of Weibull Distribution on Prediction Based Sensing in Energy Harvesting Cooperative CRN",6th IEEE International Conference on Signal Processing and Integrated Networks (SPIN 2019)

TO BE CONTINUED...