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#### EMPLOYMENT STATUS

- January, 2018 - Present : Assistant professor, Department of Electronics and Communication Engineering, Govt. Engineering College, Ajmer

#### ACADEMIC DETAILS

Examination	Specialization	Institute	Year
M.Tech	Electronic System and Communication	NIT Rourkela	2017
B.Tech	Electronics and Communication	NIT Agartala	2015
Intermediate	Science	Shishu Bihar H.S School	2011
Matriculation	General	Shishu Bihar H.S School	2009

#### RESEARCH INTEREST

- Statistical analysis of heterogeneous network based on several mathematical tools to find out the basic properties and relationship between several entities like Macro cell, Pico cell, Femto cell, Device to Device communication (D2D) and Internet of Things (IoT) deployed in a specific coverage area.
- Pattern Recognition and Machine Learning.

#### FIELDS OF INTEREST

- Signal Processing, Wireless Communication, Networking, Digital Communication, Digital Electronics, Control Systems and Microprocessor.

#### TECHNICAL SKILLS

- **Languages** : C, C++, Data Structure, HTML, XML
- **Assembly Languages** : Microprocessor 8085, Microcontroller 8051
- **Database** : MySQL
- **Script** : Python
- **Tools** : MATLAB, Simulink, PROTEUS, Keil microvision, ANSYS HFSS, LABVIEW, Android Studio, Xilinx-ISE, T-CAD, Asterisk PBX,  $\LaTeX$ .

#### IEEE PUBLICATION

- N.Mallik, S.Chakrabarti, S.Das, "**Study of Throughput based on the Impact of Propagation Effects and Traffic Patterns in Wireless Cellular Networks**," IEEE International Conference On Recent Trends In Electronics Information Communication Technology, May 19-20, 2017, India. DOI: 10.1109/RTEICT.2017.8256566. ISBN: 978-1-5090-3704-9.

## MAJOR PROJECTS

- **STUDY OF THROUGHPUT BASED ON THE IMPACT OF PROPAGATION EFFECTS AND TRAFFIC PATTERNS IN WIRELESS CELLULAR NETWORKS** (M.Tech Project)  
(Guide: Prof. Susmita Das , July'16 - May'17)
  - **Objective** :In this project, we frame a network model using Poisson point process (PPP) distribution for characterizing the throughput with respect to the signal-to-interference-plus-noise ratio (SINR). Furthermore, we provide a study of the impact of the wireless propagation characteristic (e.g., Path loss and Rayleigh fading) and packet traffic patterns (e.g., slotted-synchronous, slotted-asynchronous) on the throughput of the wireless heterogeneous cellular network.
- **SOME ASPECTS OF FINLINE ANTENNAS WITH SYMMETRIC AND ASYMMETRIC CONFIGURATIONS** (B.Tech Project)  
(Guide: Prof. Dibyendu Ghoshal , July'14 - May'15)
  - **Objective** :In this project I studied that finline antenna structure is closely related to microstrip and slotline antenna. Further ,I studied the radiation pattern and gain of symmetric (unilateral) and asymmetric (antipodal) finline antenna.
- **PERFORMANCE ANALYSIS AND OPTIMISATION TECHNIQUES FOR VoIP IN Wi-Fi COMMUNICATION SYSTEM** (IIT Madras Internship Project)  
(Guide: Prof. Devendra Jalihal , May'16 - July'16)
  - **Objective** :In this project,a set of standard voice codecs (G711, G722,iLBC, Opus etc) were analyzed for VoIP over WiFi with a specific focus on the effect and mitigation of loss of voice quality due to packet loss. In addition, the tolerance of G711 codec to packet loss was determined using MATLAB for varying payload sizes and a threshold was obtained.

## INTERNSHIP PROJECTS

- **Computer networking of SCADA in ONGC**  
(May-June,2014)
  - **Objective** : Focused on Computer networking of SCADA in ONGC.
- **Navigation and Surveillance(AAI)**  
(June - July , 2014)
  - **Objective** : Focused on operations of various Communications, Navigation and Surveillance facilities provided by AAI, Agartala Airport.
- **Multi Protocol Link Systems in IOCL**  
(May - July , 2013)
  - **Objective** : Focused on operations of 'MULTI PROTOCOL LINK MANAGEMENT SYSTEMS' in Indian Oil Corporation Ltd.

## SCHOLARSHIPS AND CERTIFICATES

- 2011 : B.R Ambedkar Memorial Award
- 2012 : Workshop at Topcon Sokkia, on GPS and Mobile mapping
- 2013 : Training at Indian oil corporation Ltd.,on MPLS.
- 2014 : Training at ONGC, on SCADA Networking.
- 2014 : Training at Airport Authority of India, on Navigation and Surveillance.
- 2016 : GIAN Course on 'TOWARDS 5G'.
- 2016 : Workshop on 'Security Issues on WSN-WBAN'.
- 2016 : GIAN Course on 'Advanced Digital Signal Processing.

## **POSITIONS OF RESPONSIBILITY**

- All India Radio (Vocal Artist , 2013 - 15) : Vocal arstist in 3 musical sections in All India Radio Agartala.
- NIT Agartala Cultural Fest (Music Coordinator, 2013 , Event Coordinator , 2013) : Coordinated the Music event and technical event in Cultural Fest of NIT Agartala.
- Music Competition (Winner, 2012) : Winner of Music competition in NIT Agartala.
- Robotics Competition (Winner, 2012) : Winner of Robotics competition in NIT Agartala.
- INSPIRE Summer Camp (Participant, 2010) : Participated in Summer camp in Tripura University Organised by DST Delhi.

## **STRENGTHS**

- Leadership ability,Team working,Positive Attitude,Punctual, Social Interaction, Hardworking.

## **INTEREST AND HOBBIES**

- Solving Puzzles, Analyzing problems, Singing, Reading, Painting, Driving car, Cooking, Surfing internet, Badminton.