

**DR. PRAMOD KUMAR**  
PROFESSOR & REGISTRAR  
DEPARTMENT OF ELECTRONICS &  
COMMUNICATION ENGG.



### **EDUCATION**

- Ph.D Specialization in Speech Recognition from BU
- M.Tech (ECE) from Delhi University
- B.Tech (ECE) from Delhi University

### **PROFESSIONAL EXPERIENCE**

- Seven Year Teaching Experience
- Eight Year Industrial Experience

### **RESPONSIBILITIES AT WCTM**

- Registrar, WCTM
- Exam Controller of University Examination
- Students Enrollment with University.

### **AWARDS, HONORS AND FELLOWSHIPS**

- Research Fellow on DST Project
- Research Associate on CSIR Project

### **PROFESSIONAL MEMBERSHIPS**

- Member of IEEE.
- Member of college governing committee.

### **PUBLICATIONS AND PRESENTATIONS:**

- Two research papers published in national conference.

### **RESEARCH SUMMARY**

He has worked on the development of Automatic speech recognition system and voice controlled automatic motorized wheelchair for physically challenged persons.

**DR. AJAY KUMAR DAGAR**  
VICE PRINCIPAL AND CO-ORDINATOR  
DEPARTMENT OF ELECTRONICS &  
COMMUNICATION ENGG.



## **EDUCATION**

- ◆ B.TECH (Electronics and Communication), Shivaji university KOLHAPUR.
- ◆ M.TECH from MDU Rohtak.
- ◆ Ph.D from Thappar University, Patiala.
- ◆ Advanced post graduate diploma in web designing and E-commerce technology from software technology group, New Delhi.

## **PROFESSIONAL EXPERIENCE**

- ◆ Total 16 years industrial/ academics experience.

## **RESPONSIBILITIES AT WCTM**

- ◆ Vice Principal
- ◆ Coordinator ECE Department.
- ◆ Coordinator M.Tech courses at WCTM

## **AWARDS, HONORS AND FELLOWSHIPS**

- ◆ Best Faculty award by KRDWG IIT, New Delhi.
- ◆ Best Faculty award at college level in 2007.

## **PROFESSIONAL MEMBERSHIPS**

- ◆ Life membership of ISTE
- ◆ Also Member of IETE

## **PUBLICATIONS AND PRESENTATIONS**

Published several research papers in national and international conference on digital signal processing and robotics.

## **RESEARCH SUMMARY**

Mr Ajay Dagar's work is concerned with the optical signal processing using Matlab at M.Tech level and now he is doing thesis on digital signal processing using fractional Fourier transform.

**MRS. SAKSHI PAHUJA**  
ASSISTANT PROFESSOR  
DEPARTMENT OF ELECTRONICS AND  
COMMUNICATION ENGINEERING



**Educational Qualifications:**

- Pursuing Ph.D in Image Processing from Banasthali Vidyapeeth .
- M.S in Software Systems from BITS, Pilani
- B.E in ECE from Shivaji University , Kolhapur

**Experience:**

Presently working as an Assistant professor in ECE in World College of Technology and Management, Gurgaon from 20 Mar 17 onwards with 13 years of total teaching experience.

**Publication/Presentation:**

- Paper on **“A Comparative Analysis of novel approach based on wavelet transform used for compression of various bands of SAR imagery”** published in Advanced Science Letters, Scopus Indexed
- Paper on **“A Novel approach using curvelet transform for despeckling SAR data”** published in Information Sciences and Computing.
- Paper on **“Comparison of Wavelet and Curvelet Transform based on PSNR for SAR imagery”** presented during conference at IETE, New Delhi.
- Presented paper on “Image Compression Using Various Wavelet Techniques” in National Conference on **Technological Developments in Electrical Engineering “Macro to Nano World”** by DCE, GGN from 13-14 Mar 15.
- Presented paper on **“Standard Techniques of Microelectrical Systems”** at Shaastrath-2014 on 23-24 Mar 14.
- Presented Paper on **“Analysis of RGB and YCbCr Color Spaces Using Wavelet Transform”** at IACC(published in IEEE Xplore) at ITM University, GGN on 21-22 Feb 14.
- Paper on **“Wavelet Based Compression of Natural mages”** presented in “ICACITE” conference at TITS-Bhiwani 22-23 Nov 13.
- Paper on **“Wavelet based color Image compression using color space conversion”** presented in International conference by AIRCC in May 13.
- Paper on **“ Image compression using wavelets”** presented in International conference approved by AICTE at Manav Institute of Technology , Hisar in Mar 13.

## Conference/Seminar/Workshops:

- **2<sup>nd</sup> Smart Cities Expo** at Pragati Maidan on 11 – 13 May 2016.
- **21<sup>st</sup> Technology Summit & Expo ‘Smart Technologies for Sustainable Growth’** organized by CII in association with **DST, Govt. Of India** and **Ministry of Science, ICT and Future Planning** on **17-18 December 2015** at Hotel Lalit, **New Delhi**.
- **“5<sup>th</sup> National Summit on Institutionalizing Academia-Industry Interface”** on 9 Dec 15 at PHD Chamber, New Delhi.
- Attended “Faculty Development Program on Cloud Computing” on 7 Aug at Huawei, GGN.
- Attended Seminar on “Engineering Education and Research” Seminar by National Instruments on 30 Jul 15 at Park Inn , GGN
- Attended workshop on “Two Day TEQIP II/CEP on Power System Optimization: A Journey from Conventional to Meta-heuristic Techniques” at IIT, Delhi on 5-6 Jun 15.
- Attended National Conference on **Technological Developments in Electronics Engineering “Macro to Nano World”** by DCE, GGN from 13-14 Mar 15.
- Attended Two-week ISTE Short Term Training Programme (STTP) on **Pedagogy for Effective use of ICT in Engineering Education** from 5 Jan 15 to 21 Jan 15.
- Attended Two-week ISTE Workshop on **Control Systems** by IIT, Khargpur under NMEICT (MNRD,GOI) from 2 Dec 14 to 12 Dec 14.
- Attended two day Summit on **“India-US Technology Summit”** on 18-19 Nov 14 at Greater Noida.
- Attended a two days’ workshop on **“STEPS 2 RESEARCH”** held at DCE Gurgaon from 19-20 Sep 14.
- Attended a one day workshop on **“LabView”** on 24 Jul 14 organized by NITTTR..
- Attended a 5 day ICT based program on **“Virtual Instrumentation”** organized by NITTTR, Chandigarh.
- Participated in Faculty Development Program on **“Accelerobotics”** conducted by ARK Technosolutions in Dronacharya College of Engineering.
- Attended webinar organized by IUCEE
  - ❖ Outcomes Based Education on 24 July 14.
  - ❖ Bloom’s Taxonomy on 28 July 14.
  - ❖ Assessing Learning Outcomes on 24 Aug 14
  - ❖ Teaching Strategies for Learning Outcomes on 27 Aug 14.
- Attended Two-week ISTE Workshop on **Signal and System** by IIT, Khargpur under NMEICT (MNRD,GOI) from 2 Jan 14 to 12 Jan 14.
- Attended five days faculty development program at NIT-Delhi on **Image Processing, Computer Vision and Pattern Recognition** in Jun 13.
- Attended Two Week ISTE workshop on **Analog Electronics** by IIT (Khargpur) sponsored by MHRD,GOI in Jul 13.
- Attended Two Week ISTE workshop on **DBMS** by IIT (Bombay) sponsored by MHRD,GOI in May 13.
- Attended on line course on **“Research Methodology”** sponsored by IUCEE in Mar 13.

## Memberships:

- Annual Membership of IEEE, Life time Membership of ISTE, IETE New Delhi, CSTA, IAENG, SDIWC.

## **MS. MONIKA BHAT**

ASSISTANT PROFESSOR  
DEPARTMENT OF ELECTRONICS AND  
COMMUNICATION ENGINEERING



### **EDUCATION :**

- M.Tech. in Digital electronics from SVN University, Sagar, M.P.  
B.E. in Electronics Engg. From North Maharashtra University, Maharashtra.
- Diploma in Electrical Engg. From Govt. Polytechnic, Nashik.

### **PROFESSIONAL EXPERIENCE**

- ◆ Worked as Sr. Lecturer at B.B.D. University, Lucknow from August-2008 to April-2013.
- ◆ Worked as Senior Lecturer at M.C.S.C.E.T., Lucknow from May-2006 to July 2008.
- ◆ Worked as Lecturer in C.E.S.T., Lucknow from March-2005 to April-2006.
- ◆ Worked as lecturer in Govt. Polythetnic Jammu from July-2004 to February-2005.
- ◆ Worked as Assistant Engineer in R&D Deptt., ARO equipments at Gurgaon from Sept-2003 to June-2004.

### **RESPONSIBILITIES AT WCTM (describe your current job profile with all additional responsibilities)**

- ◆ teaching B.Tech. students of Electronics & Commn. Engg. Of various semesters besied conducting seminars, guiding students in project works etc.

### **AWARDS, HONORS AND FELLOWSHIPS**

- ◆ Awarded best faculty award in M.C.S.C.E.T., Lucknow.

### **CERTIFICATIONS AND SHORT TERM COURSES**

- ◆ Attended faculty development program at TCS, Lucknow.
- ◆ Attended seminar on "IT and present Society".
- ◆ Attended seminar on "Human values and professional ethics".
- ◆ Attended seminar on "Wide area coverage of telecommunication".
- ◆ Attended faculty development program at Govt. Polythetnic, Jammu.
- ◆ Attended seminar on emerging trends in Electric Power System.
- ◆ Attended seminar on Magnetic Resonance Imaging (MRI) by Prof. Richard R. Ernst.
- ◆ Attended seminar on Fucushima Daiichi Nuclear Power Plant crises in Japan.

### **PUBLICATIONS AND PRESENTATIONS:**

- ◆ Presented a paper entitled "Microstrip Patch Antenna" in the National Conference (COTII-2013) held at A.I.T.M., Lucknow in Feb-2013.
- ◆ Presented paper entitled "Cybernetics" in the National Conference held at B.B.D.N.I.T.M. Lucknow in Jan-2012.

### **RESEARCH SUMMARY: (in 4-5 lines)**

Have been project guide of final year students for the last six years and have been conducting/ guiding students in seminars etc.

## **MR. ANIL KUMAR**

ASSISTANT PROFESSOR  
DEPARTMENT OF ELECTRONICS &  
COMMUNICATION ENGINEERING



### **EDUCATION**

- ❖ M.Tech (POWER SYSTEM) from LIET, ALWAR, Rajasthan Technical University (Kota)
- ❖ B.Tech (ELECTRICAL ENGINEERING) from JIET, JIND, Kurukshetra University (Haryana).

### **PROFESSIONAL EXPERIENCE**

- ❖ Presently working as Assistant Professor at WCTM, Gurgaon, (Since August 2016).
- ❖ Worked as Assistant Professor at Career Point University, Kota, Rajasthan (July 2015 – June 2016)
- ❖ Worked as Assistant Professor at Mata Raj Kaur Institute of Engineering & Technology, Rewari, Haryana. (July 2013 - June 2015)
- ❖ Worked as Assistant Professor at Laxmi Devi Institute of Engineering & Technology, Alwar, Rajasthan. (January 2011 – June 2013)
- ❖ Worked as Course Coordinator at Bhiwani Institute of Technology & Science, Bhiwani, Haryana. (January 2007 – August 2010)
- ❖ Worked as Site Engineer at Siemens India Limited at Bhopal site. (August 2006 – January 2007).

### **RESPONSIBILITIES AT WCTM**

- ❖ Teaching under Graduate Course in Electrical Engineering subjects – Power System, Automatic Controls, Power Electronics, Power System Operation & Control.

### **AREA OF EXPERTISE**

- ❖ Power System

### **PUBLICATIONS & PRESENTATIONS**

- ❖ Paper presented at National Conference on Power and Energy Management (PEMCON-2012) organized by Department of Electrical Engineering, Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, Punjab.
- ❖ Paper published at International Conference on Electronic Communication & Instrumentation (EMANTHAN-2012) organized by S R Group of Institutions, Jhansi.
- ❖ Digambar Singh, Anil Kumar and Dwarka Prasad, "Photovoltaic Power Supply Systems of Rural Areas in Hotel and India" published in journal of Engineering, Science & management Technology (JESMT-2012) ISSN: 2231-1521, Vol. 2, No. 2, July-Dec. 2012.

## **CONFERENCES & WORKSHOPS ATTENDED**

- ❖ Attended the six day workshop on Integrated Renewable Energy in Deregulated Power Sector (IRESDPS-2016) organised by Department of Electrical, National Institute of Technology, Hamirpur (HP).
- ❖ Attended the two day workshop on Advances in Microwave Integrated Circuit (AMIC-2012) organised by Department of Electronics and Communication, Hindustan Institute of Technology & Management, Agra.
- ❖ Two week ISTE workshop on Signal & Systems conducted by IIT, Kharagpur at MRKIET, Rewari, Haryana.
- ❖ Two day national workshop on Advances in Microwave Integrated Circuit (AMIC-2012).
- ❖ Attended the one day workshop on PCB Design, organized by ECE Deptt. , TIT&S Bhiwani on 26th March, 2009

## **RESEARCH SUMMARY**

Have been project guide of final year students for the last six years and have been conducting/ guiding students in seminars etc.

## **MR. AJAY KUMAR**

ASSISTANT PROFESSOR  
DEPARTMENT OF ELECTRONICS &  
COMMUNICATION ENGINEERING



### **EDUCATION**

- AMIETE (B.TECH), Electronics and Telecommunication Engg, IETE, New Delhi
- M.Tech, Electronics Design & Technology, Tezpur University (A Central University), Assam

### **PROFESSIONAL EXPERIENCE**

- Teaching Associate at Department of ECE, Tezpur University, Assam (2009-2010)
- Project Trainee at SAMEER, IIT Bombay (2010-2011)
- Assistant Professor, WCTM, Gurgaon (January, 2012 onwards)

### **RESPONSIBILITIES AT WCTM**

- Teaching Engineering subjects like Digital System Design, Signal & System, Data and Communication Engg., Digital and Analog Communication, Communication Engg, Radar and Sonar Engg.
- Timetable and Discipline management.
- University and Sessional exam center representative.

### **AREA OF EXPERTISE**

- Data Communication, Satellite Communication, Digital System Design.
- Signal & Systems, Analog and Digital circuit design.
- Opto Electronic, Fiber optics communication and sensor design.
- Control system, Electromagnetic Theory, Communication system

### **PUBLICATIONS/WORKSHOP**

- Himanshu Saxena, Ajay Kumar, Sachin Kumar, "Voice and Data communication over Wi-Fi using Mobile Ad-Hoc Network (Voice Over Wi-Fi)", IJIRCCE, Volume 5, Issue 2, February 2017 ISSN (Print): 2320-9798
- Sachin Kumar, Ajay Kumar, Pooja Nain, "Analysis and Simulation of E-Shape Microstrip Patch Antenna for Wideband Applications", International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 4 Issue VII, July 2016, ISSN: 2321-9653
- Divya Gupta, Ajay Kumar "Evolution Algorithm for Enhancing Energy for Sensor Networks", International Journal for technologies Research in Engineering, Volume 3, Issue 10, June 2016
- Ajay Kumar, Geeta Gupta, Arun Kumar Mallik and Anuj Bhatnagar, "Single Mode Fiber-Optic Temperature Sensor using Wet Etching" IEEE International Conference on Fiber Optics and Photonics, 978-1-55752-959-0/13/\$31.00 ©2013 Optical Society of America.



- Ajay Kumar, Geeta Gupta, Arun Mallik, Anuj Bhatnagar, "Single mode optical fiber based refractive index sensor using etched cladding", Journal of Instrument Society of India, vol.41, No.2, June 2011.
- Ajay Kumar, Dr. Pramod Kumar, Sachin Kumar. "Optimize Etching Based Single Mode Fiber Optic Temperature Sensor", International Journal of Engineering Research and Applications, ISSN : 2248-9622, Vol. 4, Issue 2( Version 1), February 2014.
- Geeta Gupta, Ajay Kumar, Arun Mallik and Anuj Bhatnagar "Single Mode Etched Fiber Coupler for Temperature Sensing", Frontiers in Optics and Photonics (FOP11), XXXVI OSI Symposium, Dec 5, 2011 POSTER SESSION (3P).
- Workshop on "Renewable Energy Sources in Green Building Technology" in Feb, 2013 at WCTM, Gurgaon
- Workshop on "Advance and innovation in Electronics & Communication Devices, System, and Application" in April, 2013 at WCTM, Gurgaon.
- Workshop on "Global Research and Development in Electronics Design & Applications" in Nov, 2014 at WCTM, Gurgaon.
- Workshop on "Industrial Automation – PLC & SCADA", Shaastra'15, IIT Madras association with Innovians Technology, in Feb 2015 at WCTM, Gurgaon.
- Workshop on " VLSI FPGA & CPLD Design & Application", in October, 2015 at Dkop Labs Pvt. Ltd., Noida

#### **AWARDS, HONORS AND MEMBERSHIPS**

- "RAJA RAM SINGH CHAUHAN" Memorial Award for getting highest mark in DEC 2008 in my AMIETE (Grad-IETE) degree by IETE.
- Associate Member of IETE, New Delhi.
- GATE 2009 Qualified.

#### **RESEARCH SUMMARY**

Mr. Ajay Kumar work is concerned with the Optical fiber sensor and coupler design and testing. During his work, he has fabricated etching based single mode optics fiber sensor and couplers. Which are best suited for use in refractive index and temperature sensing (-40°C to 150°C), Along with that sensor were used to monitor solid solution concentration with real time monitoring of sensor data using Labview. He has also very good knowledge on VHDL for digital system design. He teaches engineering subjects like Digital system Design using VHDL, Radar & Sonar, Signal & Systems, Optical Communication and Satellite communication etc. to undergraduate with emphasis on organizations use accounting information to create value in a dynamic engineering environment. His main research interest focuses on the use Telecommunication, Sensor Designing, Electronics system design and Optical devices. Research articles by him have appeared for the technical review, Photonics journal IEEE.

## **MR. RAVINDER SINGH**

ASSISTANT PROFESSOR  
DEPARTMENT OF ELECTRONICS AND  
COMMUNICATION ENGINEERING



### **EDUCATION**

**M.Tech.( Power Electronics & Drives), B.Tech.( EEE)**

### **PROFESSIONAL EXPERIENCE**

- ♣ Presently working as Assistant Prof. at WCTM, Gurgaon.
- ♣ As Assistant Prof. at LIET, Alwar from July 2013 to July 2014.

### **RESPONSIBILITIES AT WCTM**

- ♣ Teaching under graduate courses in EE

### **AWARDS, HONORS AND FELLOWSHIPS**

- ♣ GATE 2011 and GATE 2013 Qualified.

### **RESEARCH SUMMARY:**

Mr. Ravinder Singh 's research areas include power system and power flow analysis. In his M.Tech. dissertation, he has worked on AC-DC Hybrid Micro Grid; in which he worked on inter connection of power grids.

- ≠ Attended 2 days workshop 'Workshop on IT Industry Practices- Practitioners' Approach in Testing– NASSCOM initiative 2006 At Accenture, Gurgaon
- ≠ Attended 5 days workshop SUN Faculty Training Program CORE JAVA SL275 IT work force development organized with Sun Systems– NASSCOM initiative 2006 At J.I.E.T Jodhpur

### **Conferences:**

*Presented Paper in International Conferences*

- ≠ Presented Paper "e-bus: Web Services" in International Conference held at Hyderabad in Jan 2009.
- ≠ Presented paper "Interpretability of Data Sources - Providing Information" in INDIACOM-2009 at Bharati Vidyapeeth's Institute of Computer Applications and Management, New Delhi

### ***Presented Paper in National Conferences***

- ≠ Presented Paper in National Conference on Distributed Computing NCDC 2006 on “Artificial Neural Network Based Distributed Intrusion detection System (ANN-DIDS)” with co-author Dr. Jayshree Vajpayi Associate Professor Department of Electrical Engineering MBM Engg. College Jodhpur Organized by: Padmashree Dr.D.Y.Patil Institute of Engineering and technology, Pimpri, Pune-411018
- ≠ Presented Paper in National Level Seminar on Current Advances in Information Protection and Security 26-28 Feb., 2005 on “Prevention of Malicious Signals Intrusion Using ANN” with co-author Mr. Anurag Purohit Assistant Professor Department of Computer Science Engineering JECRC Jodhpur Organized by: MBM Engineering College, Jodhpur, Rajasthan
- ≠ Presented Paper in AICTE-UGC sponsored National Seminar on Emerging trends in soft computing based Artificial Intelligence Feb 27-29, 2004 on “Computer Aided Group Engg.: Application in Indian Industries” with co-author Dr. R. K. Jain, Professor JECRC Jodhpur Organized by: MBM Engineering College, Jodhpur, Rajasthan
- ≠ Presented Paper “Internet Information Provider: Web Services” in 23rd National Convention of Computer Engineers and National Seminar on "RECENT ADVANCES IN COMPUTATIONAL SCIENCE AND ENGINEERING" at the Institution of Engineers (India), Jodhpur Local Centre, Jodhpur.

### ***Presented Paper in State level Conference***

- ≠ Presented Paper in NAAC sponsored State Seminar on Improving the Quality of Education through ICT Feb 12-13, 2005 on “Enhancing Effectiveness of Engineering Education through ICT” with co-author Dr. R. K. Jain Professor JECRC Jodhpur Organized by: Department of CSE L. M. College, J. N. V. U Jodhpur.

## **MR. SACHIN KUMAR**

LECTURER

DEPARTMENT OF ELECTRONICS AND  
COMMUNICATION ENGINEERING



### **EDUCATION**

- ♣ B.E. (Electronics Engineering and communication), University of Rajasthan, Jaipur;
- ♣ M.Tech (Digital and Wireless communication Engineering, Gyan Vihar University, Jaipur).

### **PROFESSIONAL EXPERIENCE**

- ♣ Having 3 Years Extensive Teaching Experience in AICTE Affiliated Engineering College.
- ♣ Worked as a Lecturer in Gyan Vihar University, Jaipur (Raj.) since 15th July 2010 to 20th Jan 2013.
- ♣ Presently working as a Lecturer in World College of Technology and Management (WCTM), Gurgaon .

### **RESPONSIBILITIES AT WCTM**

- ♣ Teaches subjects to undergraduate students like Communication system, Microwave & Radar Engineering.
- ♣ Member of college organizing committee for Workshop on “Advance and Innovations in Electronics and Communication Devices, Systems and Applications” 2013.
- ♣ Member of organizing committee of National conference on Renewable Energy Resources and Green building Technology, 2013.,Sports day event-2013,Cultural fests at WCTM like Zenith-2013.

### **PUBLICATIONS AND PRESENTATIONS**

- ♣ Paper published in International journal IJCSET (ISSN: 2229-3345) on “Semiconductor Optical Amplifier (SOA) Performance Optimization in Optical Communication System”.
- ♣ Paper published in International journal IJSCE (ISSN: 2231-2307, Volume-2, Issue-3) on “Optical Communication System Performance Using MZI Switching”.
- ♣ Paper presented on “sixth sense technology” in National Conference, Regional College for education research and technology, jaipur.
- ♣ Paper presented on “I sense Technology” in National Conference , Yagyavalkya Institute of Technology (YIT) , Jaipur
- ♣ Paper presented in Ayam Tech. in Suresh Gyan Vihar University, jaipur.
- ♣ Paper presented on “CDMA Communication” in The Institution of Engineers (INDIA), Jaipur.

**MS. RITIKA MAKHIJA**  
ASSISTANT PROFESSOR  
DEPARTMENT OF ELECTRONICS AND  
COMMUNICATION ENGINEERING



### **EDUCATION**

B.Tech(hons.) Electronics and Communication, MDU.  
M.Tech (hons.) Electronics and Communication, MDU, Rohtak.

**PROFESSIONAL EXPERIENCE** 3.5 years of academic experience.

### **RESPONSIBILITIES AT WCTM**

- Involve in cultural and technical fest held in college
- Coordinated play performed in cultural fest held in college.
- Organise workshop in college on emerging trends in electronics.
- Currently teaching post graduate and undergraduate students.

### **PROFESSIONAL MEMBERSHIPS**

Life membership of ISTE.

### **AWARDS, HONORS AND FELLOWSHIPS**

- Gold medal at national science exhibition.
- Student of the year at college level.

**CERTIFICATIONS AND SHORT TERM COURSES** CCNA (Cisco Certified)

### **PUBLICATIONS AND PRESENTATIONS:**

- Presented Two Paper In National Conference.
- Attended National Conference “Renewable resources” at WCTM

**MR. ABHAY KR. SHAH**  
ASSISTANT PROFESSOR  
DEPARTMENT OF ELECTRONICS &  
COMMUNICATION ENGINEERING



#### **EDUCATION:**

- B.Tech (Electrical & Electronics Engg), GBTU;
- M.Tech (Power System), AFSET MDU Rohtak ;

#### **PROFESSIONAL EXPERIENCE:**

- ◆ WCTM, Gurgaon 14 MAR 2016– till date Assistant professor
- ◆ GNIOT, Gr. Noida 04 FEB 2011-13 MAR 2016 Assistant professor
- ◆ AIMT , Gr. Noida 04AUG 2010-03 FEB2011 Lecturer

#### **RESPONSIBILITIES:**

- ◆ Class Incharge
- ◆ Organizer of workshop for EEE Deptt.
- ◆ To teach the B.Tech (EE) students and lab Incharge of Basic Electrical lab , NT lab. EMEC lab and Electric Drives lab.
- ◆ Using computer added teaching learning process.
- ◆ To prepare student for different extracurricular activities such as training, workshop etc.
- ◆ **Co-ordinator( B.Tech IIndyr, IIIrd yr. and IVth yr.) of EE Department.**
- ◆ **Project-Guide**of IV<sup>th</sup> year Students.
- ◆ Scholarship Co-OrdinatorOf EE Department.
- ◆ Guest faculty in **IGNOU** for B.Tech Student.
- ◆ To Conduct Electrical Engineering experiments in the laboratory and help the students to learn the technical aspects of practicals.

#### **BIOGRAPHY:**

Abhay Kr. Shah, Assistant professor teaches Element of Power Systems, Special Electrical Machines, Electric Drives , Basic Electric Engineering, Electro Mechanical Energy Conversion, Transmission & Distribution, to undergraduate students. Research interested area are **Dynamic Voltage Restorer (DVR)** against Balanced and Unbalanced **Voltage Sag/Swells: Modeling and Simulation**. Presented papers in International Journals in the field of Electrical and has attended many workshops on research & development in science and technology.

## **PUBLICATIONS :**

1. Volume No 03, Issue No 06, June 2014 **Dynamic Voltage Restorer (DVR)** against Balanced and Unbalanced **Voltage Sag/Swells: Modeling and Simulation.** In **International Journal** of Advance Research in Science & Engineering. (ISSN 2319-8354).

2. Volume No 04, Issue No. 07, July 2015 **DESIGN & SIMULATION OF DVR USING SRFT.** In **International Journal** of Advance Research in Science & Engineering. (ISSN 2319-8354).

3. Volume No.07, Issue 02, July-December 2015 **OPC: OLE FOR PROCESS CONTROL.** In **International Journal** of Electrical and Electronic Engineers (IJEET) (ISSN 2321-2055).

4. Volume NO. 08, Issue 01, Jan –June 2016 **A Review Paper On Mitigation of Voltage Sag/Swell using Dynamic Voltage Restorer.** In

**International Journal** of Electrical and Electronic Engineers (IJEET) (ISSN 2321-2055).

## **WORKSHOP ATTENDED :**

1. A Workshop on “Recent Advancement in Electrical Electronics & Instrumentation Engineering” Conducted by **IEEE in Galgotia College of Engineering & Technology Greater Noida U.P.**

2. Workshop on Industrial Automation which is covering PLC (ALLEN-BRADELY), SCADA software (In-Touch), Seminar on Industrial Automation in **Greater Noida Institute of Technology Greater Noida U.P.**

## **RESEARCH SUMMARY :**

Abhay kr. Shah concerned to solve the problem of voltage sags and swells and its severe impact on non linear loads or sensitive loads. Severe impacts on Sensitive load itself due to voltage sags and swell. The Dynamic Voltage Restorer (DVR) is fast, flexible and efficient solution to mitigate voltage sag/swell by injecting Voltage as well as power into the system. Dynamic Voltage Restorer (DVR) is a power costumed device used in power distribution network using for voltage enhancement after occurring disturbance in the power system. The DVR can restore the load voltage within few milliseconds. Dynamic Voltage Restorer (DVR) with sinusoidal pulse width (SPWM) based controller by using the Mat lab /Simulink verify the performance of the proposed method.

## **TIME AT WCTM**

Since March 2016

## **MR. ABHISHEK SAINI**

ASSISTANT PROFESSOR  
DEPARTMENT OF ELECTRONICS &  
COMMUNICATION ENGINEERING



### **EDUCATION**

- ❖ PhD Pursuing from Punjab Technical University (Punjab)
- ❖ M.Tech (ELECTRONICS & COMMUNICATION) from BBSBEC, Punjab Technical University (Punjab) with First Division.
- ❖ B.Tech (ELECTRONICS & COMMUNICATION) from SDDIET, Kurukshetra University (Haryana) With First Division.

### **PROFESSIONAL EXPERIENCE**

- ❖ Sant Baba Bhag Singh University, Jalandhar, Punjab (February 2016 – November 2016)
- ❖ Rayat Bahra Institute of Engineering & Biotechnology, Kharar, Punjab (August 2008 - November 2014)
- ❖ IEET-Institute of Engineering & Emerging Technologies, Baddi, Himachal Pradesh (August 2007 – June 2008)

### **RESPONSIBILITIES AT WCTM**

- ❖ Teaching Engineering subjects –VLSI Design, Embedded Systems, Electromagnetics field theory

### **AREA OF EXPERTISE**

- ❖ Electromagnetics and Antennas, Power Electronics

### **CONFERENCES, SUMMER/WINTERSCHOOLS, WORKSHOPS ATTENDED**

- ❖ AICTE sponsored Winter School Short Term Course on “Advances In Image Processing”
- ❖ MHRD Sponsored workshop on “MELT- Mobile e-learning Terminal”, a project of IIT, Roorkee conducted through video conferencing.
- ❖ PTU sponsored Faculty Development Program on the topic of “Emerging Trends in Various Fields of Electronics & Communication Engineering”.
- ❖ PTU sponsored Faculty Development Program on the topic of “MATLAB & Its Application and Implementation of Wireless Networks on FPGA/CPLD”.
- ❖ AICTE sponsored National Seminar on “Optical Communication – Trends and Applications”.
- ❖ Given Expert lecture on “Normal Incidence of Electromagnetic Waves in Perfect Dielectric” at RBIEBT, Mohali.

### **AWARDS, HONORS AND FELLOWSHIPS**

- ❖ Qualified JGC National Eligibility Test (NET-2015).
- ❖ Qualified Graduate Aptitude Test for Engineers (GATE-2011).



## **PUBLICATIONS**

- ❖ “Comparative Analysis of Bit Error Rate and Outage Capacity in MIMO Space Time Trellis Coding”, in International Journal on Recent and Innovation Trends in Computing and Communication, Vol.2, Issue 11 ISSN: 2321-8169.

## **RESEARCH SUMMARY**

- ❖ In this thesis report MIMO Space Time Trellis Coding (STTC) Scheme is devised to reduce BER below  $10^{-3}$ . Trellis Coding is used which uses Viterbi algorithm and Rank criterion to reduce BER (Bit error rate) using different modulations like QAM-16, QAM-32, QAM-64 and PSK.