

# Resume of Dr. Shweta Rani

## PERSONAL INFORMATION

Date of Birth 05<sup>th</sup>, August, 1980  
Father's Name Sh. Manoj Kumar  
Marital Status Married  
Spouse Dr. Sushil Kakkar



## CORRESPONDENCE ADDRESS

AP-18, Staff Colony  
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## ACADEMIC CREDENTIALS

### **Doctor of Philosophy (PhD)**

PhD from Department of Electronics and Communication Engineering, SLIET Longowal, Punjab, India, Date of notification: 22.07.2014.

### **Doctoral Thesis topic**

On the Design and Optimization of Fractal Antennas

### **M.E (Electronics and Communication Engineering)**

M.E from Thapar University, Patiala, India, year of passing 2006.

### **B. Tech (Electronics and Instrumentation Engineering)**

B. Tech from Punjab Technical University (PTU), year of passing 2003.

## PROFESSIONAL EXPERIENCE

- (a) Assistant Professor in the Department of Electronics and Communication Engineering, Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda, Punjab from 12.08.2016 to till date.
- (b) Associate professor in the Department of Electronics and Communication Engineering, Bhai Gurdas Institute of Engineering and Technology, Sangrur, Punjab from 04.08.2014 to 11.08.2016.

- (c) Assistant Professor in the Department of Electronics and Communication Engineering, Sant Longowal Institute of Engineering and Technology (Deemed University), Longowal, Sangrur, Punjab from 30.08.2010 to 30.06.2014 on contract including short breaks.
- (d) Assistant Professor (as visiting faculty) in the Department of Electronics and Communication Engineering, Desh Bhagat Engineering College, Mandi Gobindgarh, Punjab from 18.01.2010 to 19.08.2010.
- (e) Lecturer in the Department of Electronics and Communication Engineering, Desh Bhagat Engineering College, Mandi Gobindgarh, Punjab from 03.05.2007 to 21.07.2009.
- (f) Lecturer in the Department of Electronics and Communication Engineering, National Institute of Technology, Kurukshetra, from 18.07.2006 to 30.04.2007 on ad-hoc including short breaks.
- (g) Lecturer (on contract) in the Department of Electronics and Communication Engineering, Sant Longowal Institute of Engineering and Technology (Deemed University), Longowal, Sangrur, Punjab from 22.08.2003 to 24.12.2003.

#### **ADDITIONAL RESPONSIBILITIES UNDERTAKEN**

- (a) Warden Gils Hostel-1 from 2016-2019 and Warden Girls Hostel-2 from 2022 - Till date.
- (b) Member BOS and BOC, ECE Department, GZSCCET, MRSPTU, Bathinda.
- (c) **Convener** of the "4<sup>th</sup> International Conference on Advancements in Engineering and Technology (ICAET-2016), held at Bhai Gurdas Institute of Engineering and Technology, Sangrur on 18-19<sup>th</sup> March, 2015. (*Proceedings published with MATEC Web of Conferences Journal, indexed with Thomson Reuters, SCOPUS*)  
<http://www.matec-onferences.org/articles/matecconf/abs/2016/20/contents/contents.html>
- (d) **Convener** of the "3<sup>rd</sup> International Conference on Advancements in Engineering and Technology (ICAET-2015), held at Bhai Gurdas Institute of Engineering and Technology, Sangrur on 20-21<sup>st</sup> March, 2015. (*Proceedings published with International Journal of Computer Applications (IJCA), indexed with DOAJ, Google Scholar, Informatics*)  
<http://www.ijcaonline.org/proceedings/icaet2015>
- (e) Assigned as **Observer** by PTU, Jalandhar at BHSBIET, Lehra Gaga for Examination Nov/Dec 2014.
- (f) Member of Departmental committee for finalizing syllabi for ICD scheme at SLIET Longowal.
- (g) Organizing member & main stage coordinator of two weeks winter school on Future Trends of Broadband Wireless Communication and Networking, 2014, ECE Deptt., SLIET, Longowal.
- (h) Organizing member & main stage coordinator of Faculty Development Training Program on Future of Communication Systems, 2014, ECE Deptt., SLIET, Longowal.
- (i) Member of registration committee in 14<sup>th</sup> Punjab Science Congress - 2011, held at SLIET Longowal.
- (j) Organizing member of National Conference on Communication and Networking, 2012, ECE Department, SLIET Longowal.
- (k) Organizing member of National Conference on Communication and Networking, 2011, ECE Department, SLIET Longowal.
- (l) Member of Departmental M-tech course committee, SLIET Longowal.
- (m) Member of Departmental PhD course committee, SLIET Longowal
- (n) Member of Departmental Electronics Society/ IE (I) Chapter Committee, SLIET Longowal.

## AREAS OF INTEREST

- (a) Fractal Antennas
- (b) Soft-Computing
- (c) Wireless Communication

## AWARDS/HONOURS/RECOGNITIONS

- 1) Recipient of the **IEI Young Engineers Award 2015-2016** in Electronics and Telecommunication Engineering by Institution of Engineers, India.
- 2) **Best Paper award** in 4<sup>th</sup> International Conference on Advancements in Engineering and Technology (ICAET-2016), BGIET, Sangrur (M. U. Singh, S. Kakkar and **S. Rani**, "BER performance analysis of OFDM-MIMO system using GNU Radio", *Proceedings of ICAET-2016*, BGIET, Sangrur, Mar. 2016.)
- 3) **Best Paper award** in 3<sup>rd</sup> International Conference on Advancements in Engineering and Technology (ICAET-2015), BGIET, Sangrur (A. Sonker, S. Rani and S. Kakkar, "Fractal Reconfigurable Antenna", *Proceedings of ICAET-2015*, BGIET, Sangrur, Mar. 2015.)
- 4) **K. F. Antia Memorial Prize** awarded by Institutions of Engineers (IEI) India in 2014 (S. Rani and A. P. Singh, On the Design and Analysis of Modified Koch Curve Fractal Antenna)
- 5) **Biography** published in 32<sup>nd</sup> Edition of MARQUIS Who's Who in the World, 2015, 890 Mountain Ave, Suite 300, New Province NJ-07974 (USA).
- 6) **Best paper award** in National conference on Communications & Networking-12, SLIET longowal (S. Kakkar, S. Rani and A.P Singh, "Analysis and Design of small size planar antennas", *National Conference on Communications & Networking-2012*, SLIET, Longowal, 2012).
- 7) **Best paper award** in National Conference on GTSEM-12, EIE Department, SLIET Longowal. (S. Kakkar, S. Rani and A.P Singh, "Design of RFID antenna for High Energy Transfer", *National Conference on Green Technologies*, EIE Deptt., SLIET Longowal, Feb, 2012).
- 8) **Setting up Research Laboratory:** Establishment of SDR lab for ECE Deptt., at BGIET, Sangrur that comprises GNU Radio software and Hardware (Taransreceivers) from AMITECH Solutions and 05 M.tech students successfully completed their projects & thesis on it.

## RESEARCH PAPERS (Total: 71)

- (a) Papers in referred International Journals: 36
- (b) Papers in international conferences: 22
- (c) Papers in national conferences: 13

## FDPs/WORKSHOPS ATTENDED: (Total 18)

### **REVIEWER FOR THE JOURNALS**

Name included in the panel of Reviewers of the International Journal of Electronics, published by Taylors & Francis and International Journal of Applied Electromagnetic and Mechanics, published by IOS press.

### **SESSION CHAIRED**

- Chaired 01 Technical session in 4<sup>th</sup> International Conference on Advancements in Engineering and Technology (ICAET-2016), BGIET, Sangrur, 2016.
- Chaired 01 Technical session in 3<sup>rd</sup> International Conference on Advancements in Engineering and Technology (ICAET-2015), BGIET, Sangrur, 2015.
- Chaired 01 Technical session in National Conference on communication and Networking, organized by the Department of Electronics and Communication Engineering, SLIET Longowal, 2012.

### **MEMBERSHIP OF PROFESSIONAL BODIES/SOCIETIES**

- (a) Member of the Institution of Engineers (India), IEI; AM-100240.
- (b) Member of the Institution of Electronics and Telecommunication Engineers (IETE); AM-229941.
- (c) International Association of Engineers (IAENG), UK, (M. No: 114669)

### **COMPUTER PROFICIENCY**

Working knowledge of Windows, OR-CAD, MATLAB, Electromagnetic Simulator (IE3D), CISCO Packet Tracer.

**(Dr. Shweta Rani)**