



# Dr. Sangeeta Shekhawat Tripathi

Assistant Professor

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**A:** 2/563 Jawahar Nagar, Sector 2,  
Jaipur, Jaipur, 302004, India

**Nationality:**

Indian

**Place of Birth:**

Bikaner

**Date of Birth:**

09/11/1985

## SKILLS

Research

Problem solving

Administrative

Problem solving

Presentation

Writing

Time management

Leadership

## EXPERIENCE (14 years)

- Presently, working as a Senior Assistant Professor in Electronics and Communication Department at Amity University Rajasthan, Jaipur, since 2010.
- Had 2-year experience of teaching at Shekhawati Engineering College, Rajasthan as a Lecturer in the department of Electronics and Communication from 2008 to 2010.

## EDUCATION

### PhD | Amity University Rajasthan, Jaipur

Jul 2017 - Aug 2022

Ph.D. in **"Wearable Microstrip Patch Antenna for Wireless and Body-worn Communication"** from Amity University Rajasthan. (Thesis evaluated and vivataken by IIIT Allahabad, Dean and Prof. Neetesh Purohit Sir)

Also Ph.D. Coursework topper with 10 CGPA.

### M.Tech | Rajasthan Technical University, Kota, Jaipur

Jul 2013 - Oct 2016

M. Tech (**Digital Communication, From RTU, Kota**) with 65%

### B.E | Govt. Engineering College Bikaner, Bikaner

Aug 2005 - Jul 2008

**B.E.(Electronics & Communication)** from **Govt. Engineering College, Bikaner** with 68% in 2008

### Engineering Diploma | Govt. Women's Poly technique College Bikaner, Bikaner

Jul 2002 - Jul 2005

Three-Year **Engineering Diploma** in Electronics from **Govt. Women's Poly technique college Bikaner** with 69% in 2005

## EXPERIENCE

### Assistant Professor | Amity University Rajasthan, Jaipur, Jaipur

Aug 2010 - Aug 2022

Current

### Lecturer | Shekhawati Engineering College Jhunjhunu, Jhunjhunu

Aug 2008 - Jun 2010

Past Employer

## ACHIVEMENTS

- Invited by National Television Doordarshan to participate in the LIVE programme celebrating the 50th anniversary of "International Telecommunication Society Day" as a communications expert.
- Invited by National Television Doordarshan in the program "SKHISHA JAGAT" as an academican with Co-panelist Dr. Puja Agrawal (Vice President, Arya Group of Institutes)
- Awarded by RAJASTHAN WOMEN AHIVERER AWARD 2019
- Awarded by Principle Teachers' Award-8 , in University Category 2019 Invited by All India Radio as an expert for debating on the issue "Girls Higher Education.
- Invited by "Miss India 2017" Rajasthan contest as a Judge in 2 Sep, 2017.

## TRAINING DURING STUDY

- 45 days training in Vodafone switch, Jaipur.
- 30 days training in Doordarshan Relay Kendra, Bikaner
- 30 days training in B.S.N.L. Bikaner

## PROJECTS

- Infrared object counter
- Load protector with remote switching facility
- Display counting machine.

## BOOKS

- Book on Basic Electrical Engineering is under process
- Book on Parenting for the publication of Jaipur Based publisher is under process
- Book on Computer Architecture is under process

## Project Submitted

- Project submitted on "DESIGNING OF HIGH PERFORMANCE NANO LOW NOISE AMPLIFIER" for the S-NAP (ISRO).

## Patent

- Patent submitted on "Body Worn Antenna Using AMC Structure with Multiband Operations" through Amity University Rajasthan.

## RESPONSIBILITES PERFORMED

S.N.	Responsibility Name	Duration
1.	Co-Convener in Institute Innovation Council (IIC), AUR supported by MHRD	May 2022 to present
2.	Innovation activity coordinator in IIC, AUR	June 2021 to present
3.	Entrepreneurship-Cell and Amity Innovational Incubator member( <a href="http://65.1.43.184:8080/team.php">http://65.1.43.184:8080/team.php</a> )	June 2021 to present
4.	Member of session Organizing Committee in 2nd International Convention on "Green Environment, Technology & Entrepreneurship through Innovation" ICGETEI-2022	March 2022
5.	Technical committee Member in International Conference On Issues and Challenges in Doctoral Research (ICICDR-2022)"	Coming in 25th August,2022
6.	Member of Admission test Parents students counseling committee	April 2018 to till
7.	In- Charge of Electrical Science First Year Subject and Laboratory	Jan.2017- till

8.	Head of Gender Equality Cell in Electronics & Communication Department, Amity University Rajasthan	September 2017-till
9.	EDITOR Faculty Member of ASET-TIMES Quarterly Magazine in AMITY UNIVERSITY RAJASTHAN	2016-till
10.	IN-CHARGE of AMITY LITREACY MISSION in AMITY SCHOOL of ENGINEERING & TECHNOLOGY	2016
11.	Core Member of ALUMNI DIRECTORATE of AMITY UNIVERSITY RAJASTHAN	2015-till
12.	Electronics and communication Department EVENT AND CULTURAL FACULTY IN- CHARGE in Amity University Rajasthan	2014-till
13.	AMITY LEADERSHIP FEST overall in-charge of AMITY SCHOOL OF ENGINEERING & TECHNOLOGY	ALF-2012
14.	INSPIRE (Program conducted by DST) committee member in Amity University Rajasthan	INSPIRE-2013 and INSPIRE-2016
15.	Price Distribution committee member in AMITY SPORTS EVENT SANGATHAN	2011-2012
16.	Central Library Committee Member in Amity University Rajasthan	2010- 2015
17.	Stage Decoration and Management Committee Member in AMITY LEADERSHIP FEST in Amity University Rajasthan	2010
18.	Cultural Coordinator and Stage Management In charge while teaching in Shekhawati Engineering College, Jhunjhunu (Raj.)	2008-2009
19.	Student Coordinator during B.E.	2007-2008

## SUBJECT TAUGHT

- ✚ Computer Architecture
- ✚ Digital Electronics
- ✚ Basic Electrical Engineering
- ✚ Digital Communication
- ✚ Microwave Engineering
- ✚ Advance Microwave Engineering
- ✚ Antenna Wave propagation
- ✚ Advance Antenna and Wave Theory
- ✚ Electrical and Electronics Engineering
- ✚ Mobile Communication
- ✚ Integrated Circuit and Technology
- ✚ Electronics Engineering
- ✚ Analog Electronics
- ✚ Electrical Science
- ✚ Operational Amplifier
- ✚ Electromagnetic Field Theory
- ✚ Wireless Communication

## SEMINAR, WORKSHOP AND CONFERENCES ATTENDED/ORGANIZED

- ✚ Attended one day workshop on "Microwave Communication "organized by Govt. Engineering College Bikaner (Rajasthan) in 2007.
- ✚ Organized One day workshop on "Advanced sources of microwave energy" While teaching on 20th Feb, 2010.
- ✚ Attended one day workshop on "Emerging of Technology and Research Clean Technology and Sustainable Business" organized by AMITY UNIVERSITY RAJASTHAN in 2010.
- ✚ Attended 4 days" Workshop of "Wipro Mission 10X", organized by AUR in 2011.
- ✚ Attended days" Workshop of "Advance Training of Wipro Mission 10X", organized by AUR in 2011.
- ✚ Attended International "International Conference on Computational Electronics and Nanotechnology (ICOCENT-2012)" organized by AUR on 1st to 2nd March 2012.
- ✚ Attended one day workshop on "Effective teaching through self- awareness knowing my teaching style" organized by AMITY UNIVERSITY RAJASTHAN.
- ✚ Attended one day workshop on Lab VIEW in AUR 2013.
- ✚ Attended 2 days National conference on "GEOGRAPHICAL INDICATIONS application filling and awareness program

- ✚ "organized by AUR in collaboration with DEPARTMENT OF SCIENCE & TECHNOLOGY in 2013.
- ✚ Attended one day lecture on Research Project Writing and Patenting presented by Prof. Pankaj Sharma (Member Amity Science, Technology & Innovation Foundation) AUUP, NOIDA in 2015.
- ✚ Coordinated Guest Lecture on "POWER AMPLIFIER FOR SATELLITE COMMUNICATION" on 20th September, 2016.
- ✚ Coordinated Two days" Workshop on "EMBEDDED SYSTEM & ROBOTICS" from 29th-30th September, 2016.
- ✚ Organized Guest Lecture of Dr. Sebastian Basterrech on "Neural Network: New trends and challenges" in 2016.
- ✚ Attended 5- Days INDO-USA workshop on "Computational Intelligence and Optimizing Tools (CIOT-2017)", in Amity University Rajasthan. From August 21-25, 2017
- ✚ Attended 3-Days Rajasthan Science Congress-2017 in Amity University Rajasthan from 13-15 Oct., 2017.
- ✚ Organized Technical Session for two days in Rajasthan Science Congress - 2107, in Amity University Rajasthan.
- ✚ Chaired one session in Rajasthan Science Congress -2107, in Amity University Rajasthan.
- ✚ Invited by Intel in their "INTEL BUSINESS SHOWCASE SOLUTIONS"
- ✚ at Jaipur in May 2019.
- ✚ Attended Short Term course (One Week) on "Outcome Based Curriculum" at the remote center of NATIONAL of TECHNICAL TEACHERS TRAINING AND RESEARCH CHANGDIGARH from 24/05/19 to 28/05/19.

## PAPERS PRESENTED/PUBLISHED IN INTERNATIONAL CONFERENCE/INTERNATIONAL JOURNALS

1. Presented paper in ICEST, Jaipur, 2016.
2. Paper published in ICEST 2016 Proceeding for International Conference on Advances in Engineering, Science & Technology, IFERP.
3. Presented research paper in RTEED-2016, in JECRC University, 2016.
4. Presented research paper in NIT Srinagar in International Conference on IC on Nanotechnology for better living, 2016.
5. Paper published in Research Publishing, Singapore by the name "Specially designed microstrip patch antenna parameter optimization by artificial neural network", in 2016.
6. Paper published in International Journal of Engineering Research & Technology, National Conference in 2016.
7. Attended International Seminar of Soft Computing & Machine Learning in Amity University, 2016
8. Presented Paper in "Rajasthan Science Congress 2017", Amity University Rajasthan, on the topic of „Review on Wearable Microstrip Patch Antenna“.
9. Presented paper in "Rajasthan Science Congress 2017", Amity University Rajasthan, on the topic of „Review Paper on "Super High Frequency Microstrip Patch Antenna“.
10. Paper titled as "An Insight of Polymer-Based Flexible Patch Antenna for Wireless and IoT Applications". In Materials Today's proceeding Conference in Jaipur in Feb. 2022.
11. Paper titled as "Textile Based Via-less EBG Unit Cell Analysis for 2.45GHz and 5.5GHz Band of Frequencies. In International conference on multifunctional advanced Materials (VICMAM-2021). August 2021

## JOURNAL PAPER



1. Shekhawat Sangeeta et al. 2021. Electromagnetic Band Gap Based Via-less Jeans Patch Antenna for 5.5 GHz, WiMax Application. In Gazi University Journal of Science. DOI: : 10.35378/gujs.1008125. **(Scopus Indexed)**
2. Shekhawat Sangeeta et al. 2022. Designing of Unit EBG Cell Using Conductive Textile for Dual Band Operation. In Indian Journal of Science and Technology (IJST). **(Web of Science Indexed)**
3. Sangeeta Shekhawat et al. 2021. Conductive Textile EBG Unit Cell AMC Surface Analysis for 2.45 GHz and 5.5 GHz Band of Frequencies. In Journal of Hunan University Natural Sciences, volume 48, Issue 8, July 2021. **(Scopus Indexed)**

4. Sangeeta Shekhawat et. al. 2022. An Insight of Polymer-Based Flexible Patch Antenna for Wireless and IoT Applications. In Materials Today's proceeding. <https://doi.org/10.1016/j.matpr.2022.06.401> **(Scopus Indexed)**
5. Sangeeta Shekhawat, Sudhanshu Singh et al. Specially Designed Microstrip Patch Antenna Parameter Optimization By Artificial Neural Network, IC on Nanotechnology for better living 3 (1), 225. **(Indexed)**
6. Sangeeta Shekhawat, et al. Microfluidics Based Air Pollutants Detection Device By Using Solvent Cast Method International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181 ICBA - 2016 Conference Proceedings, 5 (12), 20-23. **(Indexed)**
7. Sangeeta Shekhawat, Sudhanshu Singh\*, Micro/Nano-Technology Based Renewable Energy Devices And Possibilities – A Detail And Experimental Aspects, International Journal of Engineering Sciences & Management Research 3 (10), 1-3
8. Sangeeta Shekhawat, Sudhanshu Singh et al. Texture Feature Extraction And Classification Using Radial Basis Function For Diagnosis Of Brain Tumour, Far East Journal of Electronics and Communications 3 (1), 161-168. **(Scopus Indexed)**
9. Sangeeta Shekhawat, Sudhanshu Singh, Ashok Kajal,, Designing and Analysis of Compact Crown Circular Patch Antenna by using Artificial Neural Networks, ICEST 2016 Proceeding for International Conference on Advances in Materials Sciences.






## BOOK CHAPTERS

Submitter the Book Chapter in **Taylor and Francis** book on "Cognitive Predictive Maintenance Tools for Treatment of Cognitive Diseases using Future Technologies - Design and Analysis" the chapter name is **"ADVANCES IN TREATMENT OF COGNITIVE DISEASES USING IOT BASED WEARABLE DEVICES"**

## SOCIAL ACTIVITY INVOLVEMNT

-  As a part of "AMITY LITRACY MISSION" regularly visiting the nearby villages of Jaipur to spread the awareness among children and counseling their parents. Along with my students, we go visit and teach the poor children and organized some activity with them.
-  On my personal front, from last four years I am celebrating my daughter's birthday with the ORPHANAGE (VATSLAYA) near to Achrol, Jaipur (Rajasthan).

## SOFTWARE KNOWLEDGE

-  IE3D MICROWAVE SIMULATION SOFTWARE
-  HFSS SOFTWARE
-  CST Studio
-  MATLAB
-  LABVIEW

## PERSONAL PROFILE

Husband Name : Avinash Swaroop Tripathi (Film Maker, Senior Journalist)

Nationality : Indian

Language : Hindi, English, Regional Marital

status : Married DECLARATION:

I hereby assure that the entries made in the resume are Correct to the best of my knowledge and belief.

Date: - 04/11/2022

Sangeeta Shekhawat Tripathi

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+ 91 9828695294





Invited by DD Rajasthan in LIVE  
Program on the 50<sup>th</sup> Anniversary of  
'World Telecommunication Day



Invited by DD Rajasthan in their  
Program 'Skhisha Jagat' on  
debating the topic 'Girls Technical  
Education'

Sep 2022 - Present