

ADITI THAKUR

Mrs. Aditi Thakur

Asst. Prof. (ECE)

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OBJECTIVE

An effective **Research & Teaching** professional with the methodical approach to solving problems, reach independent decisions, enthusiastic with blend management skills. To evolve and manage challenging research and development and academic with electrical and Electronics Engineering.

PROFESSIONAL EXPERIENCE

I have been teaching for 10 years with experience in following institutions:

- I have been working as Asst. Prof. in the Department of ECE in Akal College of Engineering & Technology, Eternal University, Baru Sahib, H. P. from 26th December 2009.
- I have also worked as Sr. Lect. in the Department of ECE in K. C. College of Engineering & IT, District- Nawanshahr, Punjab from 15th July 2008 to December 2009.

PROFESSIONAL AFFILIATIONS

Scopus Author ID: 57201887234

Orchid ID: 0000-0002-9304-2618

Professional Membership: IAENG Member ID: 216048.

TECHNICAL SKILLS

i) Operating Systems: Windows-based all operating systems

ii) Editing Tool Packages: Microsoft office

iii) Language: C, C++, Assembly Languages: (8051, 8085/86)

iv) Hardware Description Language: MATLAB, MATHCAD

v) IDE and Simulation Tools: CST Microwave Studio, HFSS, ADS, Turbo C/C++.

PROFESSIONAL QUALIFICATION

- **Ph.D.** persuing in Electronics & Communication Engineering from Eternal University, Baru Sahib.
- **M.Tech. (Optical and Wireless Communication Technology)** From Jaypee University of Information Technology (JUIT), Wahnaghat, Solan (H.P) with **9**

CGPA in the year **2008**.

- **M. Sc. (Electronics)** From Jiwaji University, Gwalior (M.P) with **65%** marks in the Year **2006**.

EDUCATIONAL QUALIFICATION

- **B.Sc. (Non-Medical)** From Himachal Pradesh University in 2004 with 65% marks.
- **Intermediate(10 + 2)** From H. P. Board, Himachal Pradesh in 2001 with 71% marks.
- **High School (10th)** From H. P. Board, Himachal Pradesh in 1999 with 81% marks.

Project Work

- **Major Project** (4 Months) during M. Sc. on “**Wire-line Communication**”, from Himachal Futuristic Communication Limited (HFCL), Solan, Himachal Pradesh.
- **Major Project** (1 Year) during M. Tech. on “**Design Considerations for Microstrip Patch Antenna at THz Frequencies**” from Jaypee University of Information Technology, Wahnaghat, Solan, Himachal Pradesh.

Students Guided:

Name	Title of Thesis	Course	Awarded	Year
Harmandeep Kaur	Design Analysis of Patch Antenna Backed by EBG Structures	M. Tech.	Yes	2018

Courses Taught (B. Tech. & M. Tech.)

- Digital Electronics
- Analog Communication
- Digital Communication
- Electromagnetic Theory
- Antenna & Wave Propagation
- Circuit theory
- Cellular & Satellite Communication
- Radar & Navigational Aids
- Optical Fibre Communication
- Mobile Communication
- Microwave Engineering

References

Dr. Ghanshyam Singh

Professor, Department of Electronics & Communications Engineering, University of Johannesburg, South Africa. Contact: +27-629617050.

drghanshyam.singh@yahoo.com

Dr. Pardeep Kumar

Senior Lecturer, Howard College Campus, Discipline of Electronic Engineering, University of KwaZulu-Natal, Durban-4041, South Africa. Contact: +27-629796946,

+91-8894178994. kumarp@ukzn.ac.za

Personal Details:

Gender : Female
Marital Status : Married
Date of birth : 13th October 1983
Language Known: English, Hindi

Date:

Place: Baru Sahib, Himachal Pradesh.

(Aditi Sharma Thakur)

R & D PROJECTS

1. Submitted a R&D Project Proposal as a Co-PI for 2019 entitled “Sustainable and Smart Drip Irrigation System for ‘BaruSahib’ Panchayat of H.P” with the Department of Science & Technology (DST) under Young Scientist & Technologist (SYST) on 12th April 2019 with the file no. SP/YO//2019/1288
2. Submitted a R&D Project Proposal as a P.I for 2018-2019 entitled “Synthesis of Reconfigurable Ultrathin Metamaterial Absorber for the Radar Cross Section Reduction” with the Department of Science & Technology (DST) under SwaranJyanti Fellowship on 29th March 2019 with the file no. DST/SJF/ET/2019/91.

WORKSHOPS/SHORT TERM COURSES

1. Attended a Webinar on "World's **Largest Drug Awareness Webinar**", on 26th June, 2020, organized by Kalgidhar society, BaruSahib, H. P.
2. Participated in a Webinar "**Numerical Techniques: An Introduction applications**", on 9th July, 2020, organized by the Department of Applied sciences, Chitkara University, Punjab.
3. Participated in FDP on “**Antenna Design Using Microwave Studio**” from 27th April to 1st May, 2020, organized by Department of Electronics & Communication Engineering, Chitkara University, Punjab.

4. Attended 3-days Faculty Development Program on "**Universal Human Values for Student Induction**" held on November 21st to 23rd, 2019 at Eternal University Baru Sahib (HP).
5. Participated in the workshop on "One day Python workshop for teachers" organized by the Teaching Learning Centre (ICT) at IIT Bombay on 22nd June, 2019
6. Participated in 2-day workshop on "**Intellectual Property Rights: Issues and Challenges (IPRIC- 2019)**" during 28-3-19 to 29-3-19 organized by IPR Cell, Eternal University, Baru Sahib, in association with Himachal Pradesh Patent Information Center (HPPIC) and Himachal Pradesh Council for Science, Technology, and Environment, Shimla, H.P., India.
7. Attended Short Term Course (STC) organized by NITTTR Chandigarh on "**4G and 5G**" through ICT (Information & Communication Technology) between 17th-21st September 2018 at Eternal University, Baru Sahib (H.P), India.
8. Attended short term course organized by NITTTR Chandigarh on "**VLSI Design**" through ICT between 24th-28th September 2018 at Eternal University, Baru Sahib (H.P), India.
9. Member of organizing committee of National Workshop on "**Solar and Smart Energy Systems for Sustainable Environment**" 6th -7th April, 2018, Eternal University, Baru Sahib.
10. Member of organizing committee of DST sponsored two days National Workshop on "**Real Time Applications Using Next Generation IoT Technology**" 20th -21st April, 2018, Eternal University, Baru Sahib.
11. Workshop attended on "**Entrepreneurship Development**" by National Entrepreneurship Development Cell (NEDC), New Delhi, 19th August, 2017.
12. Participated in faculty development program on "**Goods and Service Tax**", 29th April, 2017, Eternal University, Baru Sahib.
13. Short term course organized by ITTTR Chandigarh on "**Power Electronics for Renewable Systems**", through ICT, 14th-18th April 2017, Eternal University, Baru Sahib.
14. Member of organizing committee of DST sponsored International Conference on "**Innovative Research in Engineering, Science, and Technology (IREST-2017)**" 7th -8th April, held at Eternal University, Baru Sahib.

List of Publications

JOURNALS

1. Dhawan Singh, Amanpreet Sandhu, Aditi Thakur, and Nikhil Priyank, "An Overview of IoT Hardware Development Platforms," *International Journal on Emerging Technologies, IJET-RT-3058*.(Accepted)

2. Dhawan Singh, Aditi Thakur, and Viranjay M. Srivastava, "Miniaturization and Gain Enhancement of Microstrip Patch Antenna with Defected Ground and EBG," *Journal of Communication (JOCM)*, vol. 13, no. 12, pp. 730-736, December 2018, [Doi:10.12720/jcm.13.12.730-736](https://doi.org/10.12720/jcm.13.12.730-736).
3. HarmandeepKaur, Aditi Sharma, and Dhawan Singh, "Design analysis of patch antenna using EBG structure," *International Journal of Emerging Technologies and Innovative Research (JETIR)*, vol. 5, no. 4, pp. 916-921, April 2018. [DOI:10.1729/IJCRT.17507](https://doi.org/10.1729/IJCRT.17507), ISSN: 2349-5162, Impact Factor: 5.87
4. Aditi Thakur and Dhawan Singh, "Reliable and Fast Future Communications with Millimeter Waves: A Review," *International Journal for Research in Applied Science and Engineering Technology (IJRASET)*, vol. 6, no. 3, pp. 2320-2326, March 2018, ISSN: 2321-9653, Impact Factor: 5.969
5. HarmandeepKaur and Aditi Sharma, "Microstrip Patch Antennas using Metamaterials: A Review" *International Journal of Electronics, Electrical and Computational System(IJEECS)*, vol. 6, Issue 7, June 2017, ISSN (Online): 2347-2820, Impact Factor: 2.04
6. Dhawan S. Thakur and Aditi Sharma, "Voice Recognition Wireless Home Automation System Based on Zigbee," *Journal of Electronics and Communication Engineering (IOSR-JECE)*, vol. 6, no. 1, pp. 65-75, June 2013, ISSN (Online): 2278-2834, Impact Factor: 3.12
7. Dhawan S. Thakur, Aditi Sharma, and Dileep Kumar Sharma, "A Low-Cost Design & Monitoring of Automatic Irrigation System Based on ZigBee Technology," *International Journal of Engineering Research and Technology*, vol. 2, no.5, pp. 1112-1121, May 2013, ISSN (Online): 2278-018.
8. Aditi Sharma and G. Singh, "Single pin shorted ultra-broadband rectangular microstrip patch antenna for THz communication," *International Journal of Microwave and Optical Technology (IJMOT)*, vol. 5, no. 1, January 2009. ISSN: 1553-0396, Impact Factor: 0.7
9. Aditi Sharma and G. Singh, "THz electromagnetic radiation-potential application areas," *Electronics for You Magazine*, vol. 41, no. 1, pp. 50-56, January 2009.
10. Aditi Sharma and G. Singh, "Rectangular microstrip patch antenna design at THz frequency for short distance communication systems," *Journal of Infrared, Millimeter and Terahertz Waves*, vol. 30, no. 1, pp. 1-7, January 2009. [DOI.org/10.1007/s10762-008-9416-z](https://doi.org/10.1007/s10762-008-9416-z), Impact Factor: 2.54
11. Aditi Sharma and G. Singh, "Design of short-range ultra-broadband rectangular microstrip patch antenna for THz communications," *International Journal of Computer and System Engineering*, vol. 1, no. 2, December 2008.
12. A. Sharma and G. Singh, "Design of single pin shorted three-dielectric-layered substrates rectangular patch antenna for communication systems," *Progress in Electromagnetic Research Letters*, vol. 2, pp. 157-165, 2008. [DOI:10.2528/PIERL08010703](https://doi.org/10.2528/PIERL08010703)

CONFERENCES ATTENDED

1. Ankita Sharma and **Aditi Thakur**, “Smart domestic refuse management in villages using IoT,” *3rd Himachal Pradesh Science Congress*, H.P, India, 22-23 October, 2018, pp.1, Accepted.
2. **Dhawan Singh** and **Aditi Thakur**, “Designing of Smart Drip Irrigation System for Remote hilly Areas,” *IEEE 5th International Conference on Parallel, Distributed and Grid Computing (PDGC)*, H.P, India, 20-22 December, 2018, pp.1-5, DOI: [10.1109/PDGC.2018.8745934](https://doi.org/10.1109/PDGC.2018.8745934)
3. Dhawan S. Thakur and **Aditi Sharma**, “Wireless Solar Irradiance Meter,” *International Conference on Renewable Energy*, H.P, India, 5-6 May 2012, pp. 1-9.
4. Dhawan Singh and **Aditi Sharma**, “Microcontroller Based Digital Solar Insolation Meter,” *International Conference on Recent Advances in Electronics and Computer Engineering*, H.P, India, 17-18 December 2011, pp. 1-7.
5. **Aditi Sharma**, Vivek K. Dwivedi and G. Singh, “THz rectangular microstrip patch antenna on multilayered substrate for advanced wireless communication systems,” *Progress in Electromagnetic Research Symposium (PIERS-2009)*, 23-27 March 2009, Beijing, China, pp. 627-631.
6. **Aditi Sharma**, Vivek K. Dwivedi and G. Singh, “THz Rectangular Patch Microstrip Antenna Design Using Photonic Crystal as Substrate,” *Progress in Electromagnetic Research Symposium*, PIER 2008, July 2-6, 2008, Cambridge, USA, pp. 161-165.
7. **Aditi Sharma** and G. Singh, “Concept of surface plasmons for development of nanoscale optical antennas,” *International Conference on Microwave and Optoelectronics (ICMO 2007)*, pp. 228-236, 17-20 December 2007, Aurangabad, India.
8. **A. Sharma**, G. Singh and D. S. Chauhan, “Design considerations to improve the performance of a rectangular microstrip patch antenna at THz frequency,” *33rd International Conference on Infrared, Millimeter, and Terahertz Waves*, 15-19 September 2008, California, USA, pp. 1-2. DOI: [10.1109/ICIMW.2008.4665717](https://doi.org/10.1109/ICIMW.2008.4665717)
9. **Aditi Sharma** and G. Singh “Microstrip-line fed single pin shorted rectangular patch antenna for broadband communication,” *National Conference on Wireless and Optical Communication (WOC-2007)*, PEC Chandigarh, India, pp. 195-198.