



Shrawan Kumar Patel

Assistant Professor [Selection Grade, Level-12]

Department of Electronics & Communication Engineering

School of Studies of Engineering & Technology

Guru Ghasidas Vishwavidyalaya Bilaspur CG

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Educational Qualification:

- **Ph. D.** (Pursuing)
Specialization: Microwave Circuits
Institute: Indian Institute of Technology, Kharagpur WB
- **Master of Engineering** (Electronics and Tele-Communication Engineering)
(Percent - 84.45%)
Specialization: Electronics & Telecommunication Engineering
University: Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal MP
Institute: SGSITS, Indore M.P. (June, 2009)
- **Bachelor of Engineering** (Electronics and Tele-Communication Engineering)
(CPI - 8.26/10)
Specialization: Electronics & Telecommunication Engineering
University: Guru Ghasidas University, Bilaspur CG
Institute: GEC, Bilaspur C.G. (June, 2007)
- **12th Standard** (HSSC)
(Percent - 83 %)
Subjects: Physics, Chemistry, Mathematics, Hindi, English
Board: Chhattisgarh Board of Secondary Education, Raipur C.G. (May, 2003)
School: Saraswati Shishu Mandir Higher Secondary School, Laxmipur Raigarh CG
- **10th Standard** (HSC)
(Percent - 80 %)
Subjects: Hindi, English, Mathematics, Science, So. Science, Sanskrit
Board: Madhya Pradesh Board of Secondary Education, Bhopal M.P. (May, 2001)
School: Saraswati Shishu Mandir Higher Secondary School, Laxmipur Raigarh CG

Experience:

- **Designation:**
 - Assistant Professor – Selection Grade, Level-12 (12th Sep, 2020 to till date)
 - Assistant Professor – Senior Scale, Level-11 (12th Sep, 2016 to 12th Sep, 2020)
 - Assistant Professor – Level-10 (12th Sep, 2011 to 12th Sep, 2016)**Department:** Electronics & Communication Engineering
Organization: School of Studies of Engineering and Technology
Guru Ghasidas Vishwavidyalaya, Bilaspur (CG), INDIA
- **Designation:** Junior Telecom Officer (Since Apr, 2010 to Aug, 2011)
Department: OFC Maintenance (ETR) Division, Rourkela, ODISHA
Organization: Bharat Sanchar Nigam Limited, INDIA
- **Designation:** Senior Lecturer (Since July, 2009 to Mar, 2010)
Department: Electronics & Telecommunication Engineering
Organization: Lakhmi Chand Institute of Technology, Bilaspur (CG), INDIA

Areas of Interest/Specialization:

- Microwave Antennas
- RF Beamformers
- Microwave Circuits: RF Amplifiers, RF Switches, RF Phase-shifters, RF Filters, Power Dividers and Couplers.

Awards and Honors:

- Awarded with NPTEL Believers Award from NPTEL during Jan-Dec, 2020.
- UGC-NET Qualified in Electronic Sciences in June-2019
- GATE Qualified (GATE 2007, 2010 and 2011 in Electronics Engineering)
- Received MHRD Scholarship in Master in Engineering
- Received Merit Scholarship during Bachelor of Engineering

Publications:

UGC CARE-List:

1. Soni A.K., **Patel S.K.**, Varshney G., "Metal-free Terahertz Absorber/Sensor Using Multi-layered Graphite", In: Ambrish Maurya, Anmesh Kumar Srivastava, Pradeep Kumar Jha, Shailesh Mani Pandey (eds) Progressive Research in Industrial & Mechanical Engineering (PRIME 2021). Lecture Notes in Mechanical Engineering, <https://link.springer.com/book/9789811977084> (In press)
2. Soni A.K., Kumar R., **Patel S.K.**, Soni A. (2021), "Non-destructive Fusion Method for Image Enhancement of Eddy Current Sub-surface Defect Images", In: Bajpai M.K., Kumar Singh K., Giakos G. (eds) Machine Vision and Augmented Intelligence—Theory and Applications. Lecture Notes in Electrical Engineering, vol 796. Springer, Singapore. https://doi.org/10.1007/978-981-16-5078-9_50

UGC Listed Journals:

1. **Patel S. K.**, "Parameter Improvement of MPA using Square Shape Reflector for S-Band Wireless Application", International Journal of Technical Innovation in Modern Engineering & Science, vol. 05, issue 05, pp. 1045-1047, May 2019.
2. **Patel S. K.**, "Performance Enhancement of Microstrip Patch Antenna Using EBG Structures for Wireless Applications", International Journal of Technical Innovation in Modern Engineering & Science, vol. 04, issue 05, pp. 1267-1271, May 2018.
3. **Patel S. K.**, "An E-Shaped Microstrip Patch Antenna for IEEE 802.11a High Speed Wireless LAN Application", International Journal of Advanced Research in Electronics and Communication Engineering, vol. 06, issue 12, pp. 1320-1322, Dec 2017.
4. **Patel S. K.**, and Shukla G. P. "Bandwidth Enhancement of an E-Shaped Antenna for WLAN Application", International Journal of Electrical Electronics & Computer Science Engineering, vol. 04, issue 06, pp. 88-90, Dec 2017.
5. Agrawal U. K., **Patel S. K.**, and Sharma N., "Recognition of Face on Different Facial Expressions", International Journal of Advanced and Innovative Research, vol. 05, issue 07, pp. 231-233, July 2016.

6. **Patel S. K.**, "Enhancement of Directional Parameter of a Microstrip Patch Antenna resonating at 2.4 GHz", INTERNATIONAL JOURNAL OF CURRENT ENGINEERING AND SCIENTIFIC RESEARCH, vol. 02, issue 04, pp. 111-114, April 2015.
7. **Patel S. K.**, "Improvement in Efficiency Parameter of a Microstrip Patch Antenna operating at 2.4 GHz for WLAN", IOSR Journal of Electronics and Communication Engineering, vol. 01, pp. 01-06, April 2015.
8. **Patel S. K.**, and Dewangan R. K. "Design of RF CMOS Gilbert Cell Mixer at 30MHz using 0.12 μ m Technology", International Journal of Advances in Electronics Engineering, vol. 02, issue 02, pp. 120-124, March 2012.

Administrative Responsibilities:

Department Level:

- **Member, Board of Studies:** From April 2019 to April 2022.
- **Departmental Project In charge:** July 2021 to June 2022.
- **Examination In charge:** July 2012 to June 2014 & July 2019 to June 2021.
- **Alumni Cell In charge:** From July 2016 to June 2019.
- **Training & Placement Cell In charge:** From July 2016 to June 2019.
- **NIRF/NAAC/ AQAR In charge:** From July 2016 to June 2019.
- **Student Mentor:** July 2012-June 2013, July 2015-June 2016, July 2019 to June 2022.

Institute Level:

- **Coordinator**, Student Tech-Fest (Equilibrio 2K22) Session 2021-22.
- **Assistant Exam Superintendent**, Semester Exam Session 2019-20 at SoS(E&T).
- **Coordinator**, Document Verification Committee for B. Tech Admission (2019-20).
- **Co-coordinator**, JoSSA/CSAB/ Local Counseling for B. Tech Admission (2018-19).
- **Co-coordinator**, Student Tech-Fest (Equilibrio 2K19) Session 2018-19.

University Level:

- **Module Coordinator**, SAMARTH Portal, GGV Bilaspur CG (from Jan. 2020 to Jan. 2022).
- **Member**, NAAC/IQAC Team, GGV Bilaspur CG (from Jan. 2020 to Jan. 2022).
- **Member**, CCTV Installation & Monitoring Committee, GGV Bilaspur CG.
- **Warden**, Type-IV Boys Hostel, GGV Bilaspur CG (from Aug. 2012 to Oct. 2016).

Additional Informations:

Lecture Delivered:

- Guest Lecture delivered on "**Beamforming Networks: An Innovative Approach**" at CIST Bhopal MP on 30.01.2022.

Industrial Training Attended:

- Two weeks online Industrial Training on "Integrated Telecom/Data Network & Cyber Security" organized by **Advanced Level Telecom Training Centre Ghaziabad** (An APEX Training Institute of BSNL) from 23.05.2022 to 04.06.2022.
- Two weeks online Industrial Training on "Internet of Things- A Project Based Learning using Virtual IoT Lab" organized jointly by **NITTTR Chandigarh and Xtrans Solutions Pvt. Ltd., Bangalore** from 08.07.2020 to 19.07.2020.

Programmes Organized:

- One week online FDP on “**Outcome Based Curriculum Design**” organized from 05.09.2022 to 09.09.2022 as a member of the Organizing Team.
- One week ATAL FDP on “**Devices for Modern Wireless Communication System**” organized from 20.09.2021 to 24.09.2021 as a member of the Organizing Team.
- One week online seminar on “**Current Trends in Engineering Projects**” organized from 25.11.2020 to 29.11.2020 as Coordinator.

FDP/Workshop Attended:

1. An online one week ATAL FDP on “Devices for Modern Wireless Communication System” conducted by **SoS(E&T), GGV Bilaspur CG** from 20.09.2021 to 24.09.2021.
2. An online one week ATAL FDP on “Modern Antenna Technologies for Futuristic Wireless Communication Systems” conducted by **GJUS&T Hisar, Haryana** from 20.08.2021 to 24.08.2021.
3. An online one week ATAL FDP on “Antenna: Design, Fabrication and Measurement” conducted by **GBPIET, Garhwal UK** from 02.08.2021 to 06.08.2021.
4. An online one week FDP on “Recent Advances in Antennas & Wireless Communications” conducted by **BEC, Bapatla AP** from 27.07.2021 to 31.07.2021.
5. An online one week AICTE sponsored UHV Refresher 1 FDP conducted by **AICTE New Delhi** from 22.02.2021 to 26.02.2021.
6. An online one week FDP on “Free and Open Source Software (FOSS) Tools for Effective Teaching Learning” conducted by **NITTR Chandigarh** from 15.02.2021 to 19.02.2021.
7. An online one week AICTE sponsored FDP on “Inculcating Universal Human Values in Technical Education” conducted by **AICTE New Delhi** from 08.02.2021 to 12.02.2021.
8. An online one week ATAL FDP on “Wearable Devices” conducted by **SVERICE Solapur MH** from 01.02.2021 to 05.02.2021.
9. An online one week ATAL FDP on “System Engineering” conducted by **COEP Pune MH** from 04.01.2021 to 08.01.2021.
10. NPTEL AICTE FDP on “Microwave Theory & Techniques” through **SWAYAM Portal IIT Bombay** from Sep – Dec 2020.
11. NPTEL AICTE FDP on “Control Engineering” through **SWAYAM Portal IIT Madras** from Jan – Apr 2020.
12. NPTEL AICTE FDP on “Antennas” through **SWAYAM Portal IIT Bombay** from Jan – Apr 2020.
13. An online one week AICTE sponsored STTP on “Design and Simulation of Miniature Antenna for IoT Applications (DMAIA - 2020)” conducted by **MVGRCE Vizianagaram** from 23.11.2020 to 28.11.2020.
14. An online one week ATAL FDP on “Wearable Devices” conducted by **TIET Patiala** from 16.11.2020 to 20.11.2020.
15. An online one week AICTE sponsored STTP on “ICT Tools for Engineering College Technology and Outcome Based Learning” conducted by **RIT Vishakhapatnam** from 09.11.2020 to 14.11.2020.

16. An online one week AICTE sponsored STTP on "ICT Tools for Engineering College Technology and Outcome Based Learning" conducted by **RIT Vishakhapatanam** from 26.10.2020 to 31.10.2020.
17. An online one week ATAL FDP on "Flexible and Wearable Antennas: Recent Advancements, Fabrication Techniques and Applications." conducted by **NITTTR Chandigarh** from 12.10.2020 to 16.10.2020.
18. An online one week AICTE sponsored STTP on "ICT Tools for Engineering College Technology and Outcome Based Learning" conducted by **RIT Vishakhapatanam** from 05.10.2020 to 10.10.2020.
19. An online one week AICTE sponsored STTP on "Electromagnetics, Microwave, RF & Antenna Design Using Ansys HFSS" conducted by **SVECW Bhimavaram AP** from 21.09.2020 to 26.09.2020.
20. An online one week AICTE sponsored STTP on "Antenna Design and Analysis Using Mathematical Solvers" conducted by **AITM Tekkali AP** from 07.09.2020 to 12.09.2020.
21. An Online one week AICTE sponsored STTP on "Electromagnetics, Microwave, RF & Antenna Design Using Ansys HFSS" conducted by **SVECW Bhimavaram AP** from 24.08.2020 to 29.08.2020.
22. An Online one week AICTE sponsored STTP on "Design of Miniature Antenna for 5G and IoT Applications (DMAIA-2020)" conducted by **MVGRCE Vizianagaram** from 10.08.2020 to 15.08.2020.
23. An Online one week Workshop on "Wire Antennas: Design, Analysis and Optimization using 4NEC2X" conducted by **SSGMCE, Shegaon, MH** from 03.08.2020 to 07.08.2020.
24. An Online One week International Workshop on "Metamaterial & its Applications" conducted by **GWEC Ajmer, Rajasthan** from 27.07.2020 to 31.07.2020.
25. An Online One week FDP on "Modeling, Measurement and Research trends in Microstrip Patch Antenna" **VIMTW Telangana** from 20.07.2020 to 25.07.2020.
26. A Refresher course on "Recent Advances in Emerging Areas of Engineering, Technical Education & Research" at Human Resource Development Centre, **Guru Ghasidas Vishwavidyalaya, Bilaspur CG** in June 2019. (from 24.06.2018 to 06.07.2019)
27. A Refresher course on "Research Methodology" at Human Resource Development Centre, **Guru Ghasidas Vishwavidyalaya, Bilaspur CG** in June 2018. (from 16.06.2018 to 06.07.2018)
28. A Refresher course on "Advances in Engineering & Technology" at Human Resource Development Centre, **Guru Ghasidas Vishwavidyalaya, Bilaspur CG** in June 2017. (from 05.06.2017 to 24.06.2017)
29. An Orientation Program at Human Resource Development Centre, **Guru Ghasidas Vishwavidyalaya, Bilaspur CG** in May 2017. (from 01.05.2017 to 29.05.2017)
30. AICTE sponsored STC on "Design of Microwave Antennas & Passive Components", at **Indian Institute of Technology (BHU), Varanasi** in Dec 2016. (from 19.12.2016 to 24.12.2016)
31. A CEP "Summer Faculty Research Fellowship" Programme at **Indian Institute of Technology, Delhi** in May 2016. (from 23.05.2016 to 08.07.2016)
32. An STC on "Design and Simulation of Antennas & Microwave Devices", at **National Institute of Technology, Rourkela** in June 2015 (from 03.06.2015 to 10.06.2015).
33. AICTE sponsored STC on "Fundamentals and Applications of Metamaterials", at **Indian Institute of Technology, Kanpur** in April 2015 (from 06.04.2015 to 10.04.2015).

34. A DeITY, MCIT sponsored STTP on "Wireless Sensor Networks: Secure Data Aggregation and Related Issues (WSN-SDARI)" at **SV National Institute of Technology, Surat** in July 2014 (from 14.07.2014 to 18.07.2014).

35. A Summer School on "Wireless Networks: Research Issues and Applications" at **National Institute of Technology, Rourkela** in May 2014 (from 19.05.2014 to 23.05.2014).

SWAYAM/NPTEL Courses Completed:

- Antenna (Elite + Silver)
- Control Engineering (Elite + Silver)
- Signals & Systems (Elite + Silver)
- Microwave Theory and Techniques (Elite + Silver)

Courses Taught:

- Automatic Control Systems
- Signals and Systems
- Antenna & Wave Propagation
- Electronic Devices & Circuits



(SHRAWAN KUMAR PATEL)