

# Dr. Pravin R. Prajapati, Ph.D.

✉ pravinprajapati05@gmail.com      📞 9429367045, 8791633827  
🏠 3, Umiya Nagar, B/h 22 Gam School,  
Opp. Krishna Housing Sco., Vallabh Vidyanagar  
Gujarat -388120, India



## CAREER OBJECTIVE

To be in the field of academics as a teacher, where I can use my passion to develop young minds by empowering them with necessary skills, qualities, knowledge, attitude and value of time. To be part of a progressive organization that gives scope to enhance my knowledge, skills and to reach the pinnacle in the research field with sheer determination, dedication and hard work.

## Experience

- 2023 to till today      📌 Head of the Department and Associate Professor  
Department of Electronics & Communication Engg  
A. D. Patel Institute of Technology, Gujarat
- 2006 to 2023      📌 Associate Professor  
A. D. Patel Institute of Technology, Gujarat
- 2002 to 2006      📌 Assistant Professor  
A. D. Patel Institute of Technology, Gujarat
- 2001 to 2002      📌 Lecturer  
U. V. Patel College of Engineering, Mehsana, Gujarat
- 2001-2001      📌 Visiting Lecturer  
Birla Vishwakarma Mahavidyalaya (Engg. College, Gujarat)
- 1999-2000      📌 Adhoc Lecturer  
Birla Vishwakarma Mahavidyalaya (Engg. College, Gujarat)

## Education

- 2012 – 2015      📌 PhD **RF & Microwave Engg.**      [8.00 CPI out of 10]  
Indian Institute of Technology, Roorkee (IIT-Roorkee)
- 2004 – 2006      📌 M Tech **Communication Systems**      [8.52 CPI out of 10]  
Indian Institute of Technology, Varanasi, (IIT-Varanasi)  
Banaras Hindu University, Varanasi (BHU)
- 1993 – 1997      📌 BE **Electronics & Communication Engg.**      [65%]  
Government Engg. College. Modasa  
North Gujarat University, Patan, Gujarat
- 1991 – 1993      📌 **12th.**      [71%]  
St. Xavier's High School, Anand, Gujarat  
Gujarat Higher Education Board, Gujarat
- 1990 – 1991      📌 **10th.**      [81%]  
St. Xavier's High School, Anand, Gujarat  
Gujarat Higher Education Board, Gujarat

## LABORATORIES CONDUCTED

Fiber Optic Communication Technology • Communication Techniques • Wireless Communication • Biomedical Instrumentation • Electronics Projects I & II • Bio-Medical Engg. • Process Control & Instrumentation • Microwave Engg. • Microprocessor –I • Industrial Electronics • Power Electronics and Control • Digital Computer Organization (D.C.O.) • Computer Added Circuit Analysis (C.A.C.A.) • Electronics Ckt-I & II • Electronics Measurement and Measuring Instruments (E.M.M.I.) • Network Analysis – I • Antenna and Wave Propagation • Electronics Workshop • Mini Project • Electronics Subsystem • Digital Computer Organization • Digital Electronics • Audio Video Engineering • Control System Engineering • Pulse and Switching Circuit • C Language • Satellite Communication • Fundamentals of Electronics • Basic Electronics and Electrical Engg. • Fortran Language etc.

## SUBJECTS TAUGHT

Fiber Optic Communication Technology • Communication Techniques • Wireless Communication • RADAR and Navigation Aids • Satellite Communication • Bio-Medical Electronics • Electromagnetics • Microwave Engineering • Communication Systems-I • Power Electronics & Control • Electronics Measurement and Measuring Instruments • Digital Logic Design • Industrial Electronics • Electronics Ckt-I & II • Antenna and Wave Propagation • Control System Engineering • Satellite Communication • Fundamentals of Electronics • Digital Computer Organization • Introduction to Computer Technology-I • Basic Electronics and Electrical Engg. • Energy Policy and Audit etc. • Entrepreneur Skills

## Area of Interest

- Printed Antenna
- Microstrip Antennas
- Fiber Optic Communication Technology
- Optoelectronics
- Optical Devices

## Research Area

- Analysis and Performance Improvement of Printed Antennas
- Design of Dielectric Resonator Antennas
- Design of Microwave Sensors
- Optical Amplifiers
- Analysis and Performance Improvement of Optical Link
- Design and Performance improvement of RFIC Devices




## Professional Memberships

- Life Member of ISTE : Membership number: LM36801, since 2003
- Member of Institute of Engineer-India, IE(I) : Membership number: M-1634741, since 2019.
- Member of IEEE : Membership number:92472077, since 2019.

## GRANTS RECEIVED

- 2016 – 2018     ■ Enhancement of the Gain of UWB Planner Antennas using PRS (PI)  
2 lakhs 15 thousand Rs.  
Gujarat Council of Science and Technology (GujCost), Gujarat

## GRANTS RECEIVED (continued)

- 2018 – 2021      Performance Enhancement of CP Planar Antennas using DGS (**PI**)  
14 lakhs 94 thousand Rs.  
ISRO Respond Program, Bangalore
- 2021 – 2024      Design and Development of Efficient Compact DRA for Breast Cancer Detection (**CO-PI**)  
25.57 Lakhs. Rs.  
Department of Science and Technology (DST), India
- 2022 – 2025      Fostering Inclusive and Equitable Quality Education to stimulate lifelong Sustainable Learning opportunities for HEIs in India.” (**One of the Core Team Members**)  
Approximate 60 Lakhs. Rs.  
European Union’s Capacity Building Project “Erasmus+ ERASMUS-EDU-2022-CBHE-STRAND-1, Project No. 101082909

## Research Publications

### SCI INDEXED INTERNATIONAL JOURNALS

1. **Pravin R. Prajapati**, A. Patnaik, and M. V. Kartikeyan, “Design and Characterization of an Efficient Multi-layered Circularly Polarized Microstrip Antenna,” International Journal of Microwave And Wireless Technologies, Cambridge Univ. Press, London, pp. 1101-1109, Vol. 8, no. 7, 14 April 2015, ISSN: 17590787, UGC sr. no. 17191, H index: 22, **impact factor 1.09**.  
DOI: <http://dx.doi.org/10.1017/S1759078715000549>.
2. **P. R. Prajapati**, G. G. K. Murthy, A. Patnaik, and M. V. Kartikeyan, “Design and Testing of a Compact Circularly Polarized Microstrip Antenna with Fractal Defected Ground Structure for L-band Applications,” IET Microwaves Antennas and Propagation, Publisher: Inst Engineering Technology-(IET), England, Vol. 9, Issue 11, pp. 1179-1185, 24 Aug. 2015, ISSN: 17518733, UGC sr. no. 15332, H index: 69, **impact factor 1.824**. DOI: 10.1049/iet-map.2014.0596.  
free download link  
<https://digital-library.theiet.org/content/journals/10.1049/iet-map.2014.0596>
3. **Pravin R. Prajapati**, A. Patnaik, and M.V. Kartikeyan, “Improved DGS Parameter Extraction Method for the Polarization Purity of Circularly Polarized Microstrip Antenna,” International Journal of RF and Microwave Computer Aided Engineering, Wiley Publication, England, UK, Vol. 26, no. 9, pp. 773-783, Aug. 2016, H index: 39, UGC sr. no. 17503, **impact factor 1.987**.  
DOI: 10.1002/mmce.21029, ISSN: 1099047X  
Online link: <http://onlinelibrary.wiley.com/doi/10.1002/mmce.21029/abstract>
4. **Pravin R. Prajapati**, “Multilayered Circularly Polarized Microstrip Antenna Integrated with Defected Ground Structure for Wide Impedance and Axial Ratio Bandwidth,” Journal of Electromagnetic Waves and Applications, Taylor and Francis Publication, UK, Vol. 30, Iss. 17, pp. 2256-2267, Nov. 2016, UGC sr. no. 20275, H index: 50, **impact factor 1.438**.  
DOI: 10.1080/09205071.2016.1245160, ISSN : 09205071  
Online link : <http://www.tandfonline.com/doi/full/10.1080/09205071.2016.1245160>
5. **Pravin R. Prajapati**, Shailesh Khant, “Gain Enhancement of UWB Antenna using Partially Reflective Surface,” International Journal of Microwave And Wireless Technologies, Cambridge Univ. Press, London, vol. 10, No. 7, pp. 835-842, 22 March 2018, ISSN: 17590787, H index: 22.  
doi:10.1017/S1759078718000326, UGC sr. no.17191, **impact factor 1.09**.

6. Chetan Chauhan, **Pravin Prajapati**, "Design and Performance of Spectral Efficient Modified New Diagonal Code for a Spectral Amplitude Code-Optical Code Division Multiple Access System," *Optical Engineering*, Publisher: SPIE, United States, vol. 59, no. 2, pp. 025103-12, 17<sup>th</sup> Feb. 2020, doi: 10.1117/1.OE.59.2.025103, ISSN: 0091-3286, H index: 105, **impact factor 1.352**, UGC Sr. no. 28355.  
URL: <http://dx.doi.org/10.1117/1.OE.59.2.025103>
7. Preet Kaur, **Pravin R. Prajapati**, "Design of Circular Polarized Antenna using Gammadion Chiral Metamaterial as Linear-To-Circular Polarization Transformer," *Progress In Electromagnetics Research M*, Publisher : The Electromagnetics Academy, Cambridge, MA 02138, USA, Vol. 96, pp. 69-78, Sept. 2020 (Scopus and ESCI Indexed), **impact factor 0.258**, H index: 31, ISSN: 1937-8726, UGC Sr. no. 30578.  
DOI: 10.2528/PIERM20061806  
Free download link: <http://www.jpier.org/PIERM/pier.php?paper=20061806>
8. Preet Kaur, **Pravin R. Prajapati**, "Bilayer Split-Ring Chiral Metamaterial Based Re-configurable Antenna for Polarization Conversion," *Frequenz Journal of RF-Engineering and Telecommunications*, Vol. 75, No.9-10, pp. 357-368, 26 Feb. 2021, **impact factor 1.072**, ISSN: 2191-6349, publisher Berlin : Schiele & Schon, UGC Sr. no. 12799, H index: 24.  
DOI: <https://doi.org/10.1515/freq-2020-0182>.  
<https://www.degruyter.com/document/doi/10.1515/freq-2020-0182/html>
9. Sandhya Sharma, **Pravin Prajapati**, "Permittivity Measurement of Biological Tissues using Interdigital Capacitor based Resonator," *AEUE - International Journal of Electronics and Communications*, 2023, **impact factor 3.169**, publisher ELSEVIER, GERMANY, Print ISSN: 1434-8411, Online ISSN: 1618-0399, <https://doi.org/10.1016/j.aeue.2023.154755>, May 2023.  
<https://www.sciencedirect.com/science/article/abs/pii/S1434841123002297>
10. Mehul Thakkar, **Pravin Prajapati**, Hitesh Shah, "Tunable / Reconfigurable Filter on Liquid Crystal Polymer," *Indian Journal of Natural Sciences*, Vol.14, Issue 80, Oct. 2023 **impact factor 2.452**, publisher: TAMILNADU SCIENTIFIC RESEARCH ORGANISATION, pp- 63006 - 63013, Print ISSN: 1434-8411, Online ISSN: 0976 - 0997.

## SCOPUS INDEXED INTERNATIONAL JOURNALS

1. **P. R. Prajapati**, "Application of Defected Ground Structure to Suppress Out of Band Harmonics for WLAN Microstrip Antenna," *International Journal of Microwave Science and Technology*, Hindawi Publication, Egypt, Vol. 2015, pp. 1-9, 27 Dec. 2015, ISSN: 16875826, UGC sr. no. 17192.  
Free download link: <http://www.hindawi.com/journals/ijmst/2015/210608/>
2. Shailesh Khant, Atul Patel, **Pravin Prajapati**, "Optical Communication Engineering Simulation Laboratory for Effective Undergraduate Education during Era of Covid 19," *Turkish Journal of Computer and Mathematics Education (TURCOMAT)*, Vol. 12, No. 10, pp. 4525-4535, 28 April 2021, impact factor 0.1  
<https://doi.org/10.17762/turcomat.v12i10.5195>.  
Free download link: <https://www.turcomat.org/index.php/turkbilmat/article/view/5195>
3. Mehul Thakkar, **Pravin Prajapati**, Hitesh Shah, "Reconfigurable Dual Wideband Bandstop-Bandpass Switching Filter Using PIN Diodes," *International Journal of Microwave and Optical Technology*, Vol. 18, No. 4, pp. 417-426, ISSN: 1553-0396, July 2023, impact factor 0.134  
Free download link: <https://www.ijmot.com/VOL-18-NO-4.aspx>
4. Chetan R Chauhan, **Pravin Prajapati**, "Design and Analysis of a Spectrally Efficient Adaptive Polarization-Multiplexed OFDM System Using Novel CSD Code Encoding," *SSRG International Journal of Electronics and Communication Engineering*, vol. 13, no. 1, pp. 89-98, 2026, ISSN: 2348-8549,  
<https://www.internationaljournalssrg.org/IJECE/paper-details?Id=1071>

## OTHER OPEN ACCESS FREE JOURNALS

1. Roshni Chudhari, **Pravin Prajapati**, "Design of Compact Circularly Polarized Microstrip Antenna using Fractal-Shaped Sierpinski Defected Ground Structure," International Journal of Information Technology and Electrical Engineering (ITEE), Vol. 13, Issue 4, pp. 7-15, ISSN: - 2306-708X, Aug. 2024  
[http://www.iteejournal.org/v13no4august24\\_pdf2.pdf](http://www.iteejournal.org/v13no4august24_pdf2.pdf)
2. Chetan R Chauhan, **Pravin Prajapati**, "Designing Low-Consumption Code for Polarization Multiplexed OCDMA Using AND -Subtraction Detection for Power-Efficient Metropolitan Networks," International Journal of Recent Engineering Science, Vol. 12, Issue 5, pp/ 13-19, ISSN: - 2349-7157, Oct. 2025  
<https://ijresonline.com/archives/ijres-v12i5p102>

## INTERNATIONAL CONFERENCES

1. Rohit Patel, **P. R. Prajapati**, "Spatially Resolved Fluorescence Technique For Detection of in Homogeneity Placed at Various Depth Below Breast Tissue," International Conference on "Microwaves and Optoelectronics" organized by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, India, 17-20<sup>th</sup> December 2007.
2. **P. R. Prajapati**, "Performance Ratings of SLA/PIN-HBT and APD/HBT Optical Receivers," at International Conference in Emerging technologies and applications in Engineering, Technology and Sciences, organized by Saurashtra University, Rajkot, Gujarat, India, Vol. 1, pp. 163-167, 13-14 Jan. 2008.
3. Shailesh Khant, **P. R. Prajapati**, "Simulation and Analysis of 10 Gbps SLA-PIN-HBT Receiver in terms of Quality Factor and BER," 2<sup>nd</sup> International Conference on Signals, Systems and Automation, organized by G. H. Patel College of Engineering and Technology, V. V. Nagar, Gujarat, India, January 24-25, 2011, ISBN: 978-1-6123-3002-0.  
free download link:  
<http://www.bookpump.com/bwp/pdf-b/2330029b.pdf>
4. **P. R. Prajapati**, Shailesh Khant, "10 Gbps APD-HBT Receiver: Simulation and Analysis of Quality Factor and BER," 1st International Conference on Information, Signal and Communication, organized by A. D. Patel Institute of Engineering and Technology, V. V. Nagar, Gujarat, India, February 5-6, 2011.
5. **P. R. Prajapati**, Ronak R. Vashi, "Phase Sensitive Two Pump Optical Parametric Amplifier Using Non linear Single Mode Fiber," International Conference on Optics, organized by Physics department, association with optics society of India, National Institute of Technology, Calicut, India, vol. 1391, pp. 410-412, May 23-25, 2011. doi: <http://dx.doi.org/10.1063/1.3643564> (Web of Science Indexed conference proceeding)  
<http://aip.scitation.org/doi/abs/10.1063/1.3643564>
6. Ronak R. Vashi, **P. R. Prajapati**, "Comparison of Performance Ratings of EDFA and EYCDFA Based on Effect of Different Pumping Schemes," International Conference on Optics, organized by Physics department, association with optics society of India, National Institute of Technology, Calicut, India, Vol. 1391, May 23-25, 2011. (Web of Science Indexed conference proceeding), DOI: 10.1063/1.3643563.  
<http://aip.scitation.org/doi/abs/10.1063/1.3643563>
7. Manisha Mayavanshi, **P. R. Prajapati**, Anuradha P Gharge, "Simulation of Polarization Dependent Gain in Semiconductor Optical Amplifier," International conference on Innovative Science and Engineering Technology, Organized by V. V. P. Engineering College, Rajkot, Gujarat, India, 8-9 April, 2011.
8. **P. R. Prajapati**, M. V. Kartikeyan, "Proximity Coupled Stacked Circular Disc Microstrip Antenna with Reduced Size and Enhanced Bandwidth Using DGS For WLAN/WiMAX Applications," IEEE Students'

Conference on Electrical, Electronics and Computer Sciences organised by Maulana Azad National Institute of Technology, Bhopal (NIT-Bhopal), India, 1-2 March, 2012.

Digital Object Identifier: 10.1109/SCEECS.2012.6184784.

<http://ieeexplore.ieee.org/document/6184784/>

9. Anil Kshatriya, **P. R. Prajapati**, "Effect of Signal Wavelength and Aperture Area of Detector on Performance of Free Space Optical Link," IEEE Students' Conference on Electrical, Electronics and Computer Sciences, organised by Maulana Azad National Institute of Technology, Bhopal ( NIT-Bhopal), India, 1-2 March, 2012,  
Digital Object Identifier: 10.1109/SCEECS.2012.6184746  
<http://ieeexplore.ieee.org/document/6184746/>
10. Kalpesh Shah, **P. R. Prajapati**, "Role of Simulators in Teaching the Principles of Digital Electronics Engineering Subject," 1<sup>st</sup> CSI International Conference On Education and Research, Hosted by center of Excellence for Research in Software Engineering Lingaya's University, Faridabad Organized by CSI Division V (Education and Research), Region-I and New Delhi Chapter, January 12 - 13, 2012.
11. **P. R. Prajapati**, G. G. K. Murthy, A. Patnaik, and M. V. Kartikeyan, "Asymmetrical Plus Shaped fractal Slotted Multilayered Yagi-Uda Circularly Polarized Microstrip Antenna with DGS," IEEE Applied Electromagnetics International Conference (AEMC-2013), KIIT University, Bhubneshwer, India, December 18-20, 2013.  
DOI: 10.1109/AEMC.2013.7045093  
<http://ieeexplore.ieee.org/document/7045093/>
12. **P. R. Prajapati**, G. G. K. Murthy, A. Patnaik, and M. V. Kartikeyan, "Compact Circularly Polarized Microstrip Patch Antenna for WLAN Applications," IEEE Indian Antenna Week Conference, Organized by with NITTTR, Chandigarh and Punjab Technical University and IEEE MTTTS Kolkata section, India, May 26-30, 2014.
13. K.A.N. Jyothi, J. Malik, **P. R. Prajapati**, R. P. Srivastava, "Dual Band E-shaped Microstrip Patch Antenna for WiMAX and WLAN Applications," IEEE Indian Antenna Week Conference organized by with NITTTR, Chandigarh and Punjab Technical University and IEEE MTTTS Kolkata section, India, May 26-30, 2014.
14. **P. R. Prajapati**, G. G. K. Murthy, A. Patnaik, and M. V. Kartikeyan, "Design of Compact Circular Disc Circularly Polarized Antenna with Koch Curve Fractal Defected Ground Structure," 31<sup>st</sup> International Union of Radio Science General Assembly and Scientific Symposium (URSI GASS 2014), 16-23 August, 2014, Beijing, China.  
DOI: 10.1109/URSIGASS.2014.6929151  
<https://ieeexplore.ieee.org/document/6929151>
15. **P. R. Prajapati**, A. Patnaik, and M. V. Kartikeyan, "Design of Single Feed Dual Band Dual Polarized Microstrip Antenna With Defected Ground Structure for Aeronautical and Radio Navigation," 31st International Union of Radio Science General Assembly and Scientific Symposium (URSI GASS 2014), 16-23 August, 2014, Beijing, China.  
DOI: 10.1109/URSIGASS.2014.6929088  
<https://ieeexplore.ieee.org/document/6929088>
16. **P. R. Prajapati**, M. Srinivasulu, and M. V. Kartikeyan, "Realization of Circular Polarized Microstrip Antenna with Arc-Slot Fractal Geometry," International Conference on Microwave, Optical and Communication Engineering (ICMOCE-2015)," IIT Bhubneshwer, India, pp. 158 – 161, December 18-20, 2015.  
DOI: 10.1109/ICMOCE.2015.7489714  
<http://ieeexplore.ieee.org/document/7489714/>

17. Palak Patel, **P. R. Prajapati**, "Design of UWB Antenna with Improved Gain using Partially Reflective Surfaces," International Conference on Electronics and Communication Systems (ICECS-2016)," Karpagam College of Engineering, Coimbatore, Tamilnadu, India, 25-26 Feb. 2016.
18. Poonam Parmar, **P. R. Prajapati**, "1.98 GHz Coupled Line Coupler with Enhanced Directivity using Defected Ground Structure," International Conference on Electronics and Communication Systems (ICECS-2016)," Karpagam College of Engineering, Coimbatore, Tamilnadu, India, 25-26 Feb. 2016.
19. Nasarin Vohra, **P. R. Prajapati**, "Suppression of Nonlinear Effects in WDM Transmission by Unequal Channel Spacing," International Conference on Electronics and Communication Systems (ICECS-2016)," Karpagam College of Engineering, Coimbatore, Tamilnadu, India, 25-26 Feb. 2016.
20. Arjun Kumar, **Pravin R. Prajapati**, Ashwini Arya and M. V. Kartikeyan, "Design Studies on Microstrip Filter with Peano Fractal Defected Ground Structure," 11<sup>th</sup> International Conference on Industrial and Information Systems, ICIIS 2016, Indian Institute of Technology, Roorkee, 3-4 Dec. 2016.  
DOI: 10.1109/ICIINFS.2016.8263005  
<http://ieeexplore.ieee.org/document/8263005/>
21. Arjun Kumar, **Pravin R. Prajapati**, Jagannath Malik and M. V. Kartikeyan, "Modeling of Microstrip Filter with Defected Ground Structures Using ANN," 11<sup>th</sup> International Conference on Industrial and Information Systems, ICIIS 2016, Indian Institute of Technology, Roorkee, 3-4 Dec. 2016.  
DOI: 10.1109/ICIINFS.2016.8263006  
<http://ieeexplore.ieee.org/document/8263006/>
22. Praful Bhakhar, VedVyas Dwivedi, **Pravin R. Prajapati**, "Directivity Enhancement of Miniaturized Directional Coupler using Defected Ground Structure", International Conference on Communication and Signal Processing, (ICASP 2016), Dr.Babasaheb Ambedkar Technological University, Lonere, Maharashtra, India, 26-28 Dec. 2016. doi:10.2991/iccasp-16.2017.101, ISBN: 978-94-6252-305-0, ISSN: 1951-6851.  
Free Download link: <https://www.atlantis-press.com/proceedings/iccasp-16/25871682>
23. Rajvi Shah, **Pravin R. Prajapati**, "Slot Loaded Dielectric Resonator Antenna for Bandwidth Enhancement," IEEE International Conference on Wireless Communications, Signal Processing and Networking, (WiSPNET), Chennai, India, March 22-24, 2017.  
DOI: 10.1109/WiSPNET.2017.8299839.  
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24. Sanket Pateliya, Tilak Patel, **Pravin R. Prajapati**, "Design of UWB Monopole Antenna with Fractal DGS," 1<sup>st</sup> International Conference on Current Research in Engineering (SIEICON-2017), Sigma Institute of Engineering, Vadodara, Gujarat, India, 13 April 2017, UGC approval no. 44839 (old).  
Free download link: <https://www.ijaerd.org/index.php/IJAERD/article/view/6004?articlesBySimilarityPage=3>
25. Chetan Chauhan, **Pravin Prajapati**, "Design and performance of Spectral Efficient Modified Diagonal Code (MND) for OFDM-OCDMA System using AND-Subtraction Detection," IEEE International Conference on Computing, Power and Communication Technologies (GUCON), organised by Galgotias University, Greater Noida, NCR New Delhi, ISBN:978-1-7281-5071-0, October 2-4, 2020.  
<https://ieeexplore.ieee.org/document/9231105>  
DOI: 10.1109/GUCON48875.2020.9231105
26. Shailesh Khant, **Pravin Prajapati**, "Performance Analysis of Cladding Pumped EDFA in Different Host Glasses," International Virtual Conference on Smart Advanced Material Science and Engineering Applications, KL University, Vijaywada, India, Dec. 3-5, 2020.
27. **Pravin Prajapati**, Shailesh Khant, "Proximity Coupled Stacked Circular Disc Microstrip Antenna with Improved Cross Polarization Characteristics Using DGS," International Conference on Information and

Communication Engineering (ICICE 2021), Bharat Institute of Engg. and Technology, Telangana, India, Feb. 11-13, 2021.

28. Sandhya Sharma, **Pravin Prajapati**, "Enhancement of the Accuracy of the Detection of Breast Cancer using Dielectric Resonator Antenna with Impact Factor Technique," Proc. of 8th International Conference on Signal Processing & Integrated Networks (SPIN 2021), Department of Electronics and Communication Engineering, Amity University, Noida, Delhi, India, pp. 312-317, Aug. 26-27, 2021, DOI: 10.1109/SPIN52536.2021.9566003, ISBN:978-1-6654-0255-2  
<https://ieeexplore.ieee.org/document/9566003>
29. Shailesh Khant, Atul Patel and **Pravin Prajapati**, "Effective Optical Amplification using Erbium Doped Fiber Amplifier for High Speed Networking System," International Conference on Emerging Trends in Basic and Applied Science (ICETBAS-2021), SCMS School of Engineering and Technology, Cochin, India, December 16-17, 2021.
30. Shailesh Khant, Atul Patel and **Pravin Prajapati**, "Performance Measurement of Semiconductor Optical Amplifier based WDM Active Optical Network," International Conference on Emerging Trends in Basic and Applied Science (ICETBAS-2021), SCMS School of Engineering and Technology, Cochin, India, December 16-17, 2021.
31. Shailesh Khant, Atul Patel and **Pravin Prajapati**, "Post Graduate Engineering Education from Home for Optical Networking Laboratory during COVID19 Second Wave in India," International Conference on Innovative Practices in Technology and Management (ICIPTM 2022), Amity University, Noida, India, Feb. 23-25, 2022, DOI: 10.1109/ICIPTM54933.2022.9754192  
<https://ieeexplore.ieee.org/document/9754192>
32. Viranchi C. Pandya, Hardik A. Shah, and **Pravin R. Prajapati**, "A Study of Smart Fire Detection System for Satellite, International Conference On Current Trends in Engineering, Sciences and Management (ICTESM-2022), Organized By: CT Institute of Management & Information Technology, Jalandhar, India in association with CT University, Ludhiana, India, 20 May 2022.
33. Sandhya Sharma, **Pravin Prajapati**, "Detection of Skin Abnormalities using a Highly Sensitive Planar Microstrip Probe," IEEE Wireless, Antenna and Microwave Symposium, National Institute of Technology Rourkela, ISBN:978-1-6654-5847-4, India, 5-8 June 2022. <https://ieeexplore.ieee.org/document/9847987>,  
DOI: 10.1109/WAMS54719.2022.9847987.
34. Mehul Thakkar, **Pravin Prajapati**, Hitesh Shah, "Compact Dualband Bandstop Filter on Liquid Crystal Polymer," 8<sup>th</sup> International Conference on Signal Processing and Communication (ICSC 2022), Jaypee Institute of Information Technology, Noida, India, 1-3 Dec. 2022, Electronic ISSN: 2643-444X.  
<https://ieeexplore.ieee.org/document/10009055>, DOI: 10.1109/ICSC56524.2022.10009055.
35. **Pravin Prajapati**, Mohit Anand, Ankita Jadav, Rutvij Joshi, "Design of Single Feed Compact Circularly Polarized Dual Band Dielectric Resonator Antenna for L5 and S Bands Applications," Wireless, Antenna & Microwave Symposium, Gandhinagar, India (WAMS 2023), School of Technology Pandit Deendayal Energy University (PDEU), Gandhinagar, Gujarat, June 07-10, 2023. <https://ieeexplore.ieee.org/document/10242861>, ISBN:979-8-3503-1244-7, DOI: 10.1109/WAMS57261.2023.10242861.
36. Mehul Thakkar, **Pravin Prajapati**, Hitesh Shah, "Tunable/Reconfigurable filter on Liquid Crystal Polymer," International Conference on Academic & Industrial Innovations organized by P P Savani University (PPSU), Surat, Gujarat, Aug.12-13, 2023.
37. Rakeshkumar Vanzara, Sandeepsingh Sisodia, Ketan Sarvarkar, **Pravin Prajapati**, Hardik Gandhi, Gouri Ajay Mhetar, "A Framework for Sustainable Learning in Learning in India Higher Education Institutions", Women's Research Engineers Network Symposium (WREN 2024), 21-22 March 2024, Australia, Indonesia, Malaysia (Online).

38. **Pravin Prajapati**, RakeshKumar Vanzara & Hardik Gandhi, "Promoting Equality and Inclusively through Higher Education: A Case Study of India," International Conference on Multidisciplinary and Multilingual on Inclusive and Equitable Quality Education organized by Sarvajanik University, Surat, Gujarat, Oct.4-5, 2024.
39. **Pravin Prajapati**, Bhakti Bajpai & Ar. Indrajeet Jadhav, "Promoting Multilingualism: India's Approach to Language in Higher Education," International Conference on Multidisciplinary and Multilingual on Inclusive and Equitable Quality Education organized by Sarvajanik University, Surat, Gujarat, Oct.4-5, 2024.
40. Vishalkumar Chauhan, **Pravin Prajapati**, "Beam Steering Antenna Technologies: A Comprehensive Review of Techniques, Challenges, and Emerging Trends," International Conference on Synergetic Development through Smart Technology & Digital Transformation- SDSTD-2025 organized by CVM University, V V Nagar, Gujarat, 25-26 June 2025.
41. **Pravin Prajapati**, Neeraj K. Chavda, Rakesh Vanzara, "Digital Documentation, Museum Practices, and Adaptive Reuse: A Survey-Based Analysis of Heritage Awareness Among Educators," Multidisciplinary International Conference on Designing Identities: Intersections of Art, Architecture, Culture, Religion, Science, Technology & Society. Organized by Sarvajanik University, Surat, 25-27 Feb. 2026.

## NATIONAL JOURNALS

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1. N. M. Patel, V. K. Thakar, **P. R. Prajapati**, K. V. Pomal, "Development of PC Based Control for an Electromechanical System," Journal of Engineering and Technology, Sardar Patel University, vol. 14, pp. 69-72, March 2001.
2. R. K. Jain, **P. R. Prajapati**, V. C. Pandya, "An Analysis of Student's Feedback of Current Scenario of Teaching and Learning Process," The Indian Journal of Technical Education, New Delhi, ISSN 0971-3034, Vol. 31, no. 4, pp. 12 -16, December 2008.
3. Hetal Patel, **P. R. Prajapati**, "Embedded System of Automatic Level Control Based on FPGA," ADIT Journal of Engineering, August 2010, Vol. 7, no. 1, ISSN: 09733663.
4. Ronak R. Vashi, **P. R. Prajapati**, "Comparison of Performance Ratings of EDFA and EYCDFA for 1535 nm to 1580 nm Signal Wavelength Span," Journal of Engineering and Technology, GIT, Gandhinagar, Gujarat, India, Vol. 4, 2011, ISSN 2249-6157.

## NATIONAL CONFERENCES

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1. Ronak Vashi, **P. R. Prajapati**, "Effect of Different Pumping Schemes of EDFA and its Performance Ratings," National Conference on Advances in Electrical and Electronics Engineering, Organized by Swami Vivekanand College of Engineering, Indore, India, February 24-25, 2011.
2. Vinod Makwana, **P. R. Prajapati**, "Circuit Simulation as Powerful Tool in the Field of Power Electronics for Under Graduate Students and Beginners," National Conference on Advances in Electrical and Electronics Engineering, organized by Swami Vivekanand College of Engineering, Indore, India, February 24-25, 2011.
3. Manisha V Mayavanshi, **P. R. Prajapati**, Anuradha P Gharge, "Simulation of 2<sup>nd</sup> and 3<sup>rd</sup> Order Harmonic Distortion Generated in SOA," 2<sup>nd</sup> National Conference on Emerging Vistas of Technology, NCEVT - 10, Parul Institute of Engineering and Technology, Vadodara, Gujarat, India, Dec - 2010.
4. M. Srinivasulu, **Pravin R. Prajapati**, M. V. Kartikeyan, "Realization of Circularly Polarized Microstrip Antenna using Fractal Geometry," Proceedings of National Conference on Recent Advances in Electronics and Computer Engineering, (RAECE-2015), Indian Institute of Technology, Roorkee, India, Feb 13-15, 2015, pp. 138-142, DOI: 10.1109/RAECE.2015.7510242

<http://ieeexplore.ieee.org/document/7510242/>

5. Nasarin Vohra, **Pravin R. Prajapati**, "Suppression of Nonlinear Effects in WDM Transmission by Unequal Channel Spacing," National Workshop on Recent Advances in Photonics and Optics, Govt. Women Engineering College, Ajmer, Rajasthan, India, 24-25 Nov. 2015.  
(Received 3<sup>rd</sup> prize in poster competition).

## BOOK CHAPTERS PUBLISHED

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1. **Prajapati P. R.**, Khant S. B. (2018) Design of UWB Monopole Antenna with Enhanced Gain Using Partially Reflective Surface. In: Iyer B., Nalbalwar S., Pathak N. (eds) Computing, Communication and Signal Processing. Advances in Intelligent Systems and Computing, pp. 65-72, Vol. 810. Springer, Singapore, date of publication: 13/09/2018.  
DOI: [https://doi.org/10.1007/978-981-13-1513-8\\_8](https://doi.org/10.1007/978-981-13-1513-8_8), Print ISBN 978-981-13-1512-1, Online ISBN 978-981-13-1513-8.  
[https://link.springer.com/chapter/10.1007/978-981-13-1513-8\\_8](https://link.springer.com/chapter/10.1007/978-981-13-1513-8_8)
2. Desai Chandni V., **Prajapati P. R.** (2019) Application of the Fractal Defected Ground Structure in Design of the Bandpass Filter. In: Iyer B., Nalbalwar S., Pathak N. (eds) Computing, Communication and Signal Processing. Advances in Intelligent Systems and Computing, pp.55-63, Vol. 810. Springer, Singapore, date of publication: 13/09/2018.  
DOI: [https://doi.org/10.1007/978-981-13-1513-8\\_7](https://doi.org/10.1007/978-981-13-1513-8_7)  
Print ISBN 978-981-13-1512-1, Online ISBN 978-981-13-1513-8  
[https://link.springer.com/chapter/10.1007/978-981-13-1513-8\\_7#citeas](https://link.springer.com/chapter/10.1007/978-981-13-1513-8_7#citeas).
3. Thakor A., **Prajapati P.** (2020) Erbium-Doped Optical Amplifiers—Origin to Latest Trends. In: Janyani V., Singh G., Tiwari M., Ismail T. (eds) Optical and Wireless Technologies. Lecture Notes in Electrical Engineering, pp. 101-110, Vol. 648. Springer, Singapore, date of publication: 29/04/2020, doi: [https://doi.org/10.1007/978-981-15-2926-9\\_12](https://doi.org/10.1007/978-981-15-2926-9_12)  
print ISBN: 978-981-15-2925-2, online ISBN: 978-981-15-2926-9, April 2020  
[https://link.springer.com/chapter/10.1007/978-981-15-2926-9\\_12](https://link.springer.com/chapter/10.1007/978-981-15-2926-9_12)
4. Mehul Thakkar, **Pravin R. Prajapati**, Hitesh Shah, "Tunable RF/Microwave Filter with Fractal DGS," Technological challenges and solutions to Electrical and Electronic Devices, Circuits and Materials, Publisher: Scrivener Publishing, Wiley, Editors: S. L. Tripathi, P.A. Alvi, U. Subramaniam, 11th March 2021, Print ISBN:9781119750369, Online ISBN:9781119755104,DOI:10.1002/9781119755104  
<https://doi.org/10.1002/9781119755104.ch4>  
<https://onlinelibrary.wiley.com/doi/abs/10.1002/9781119755104.ch4?msocid=3251d16bda4d6a1018ebc491db986>

## BOOKS PUBLISHED

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1. Manisha Mayavanshi, **Pravin R. Prajapati**, "Semiconductor Optical Amplifier - Modeling, Analysis and Simulation," Lambert Academic Publishing, Germany, Feb. 2015, ISBN: 978-3-659-68513-2.
2. **Pravin R. Prajapati**, "Performance Ratings of SLA PIN-HBT and APD/HBT Receivers," Lambert Academic Publishing, Germany, June 2016, ISBN: 978-3-659-90687-0.
3. Palak Patel, **Pravin R. Prajapati**, "Gain Enhancement of UWB Antennas using PRS," Lambert Academic Publishing, Germany, July 2016, ISBN: 978-3-659-91899-5.
4. Poonam Parmar, **Pravin R. Prajapati**, "Study and Investigations of Planar Coupler with DGS," Lambert Academic Publishing, Germany, July 2016, ISBN: 978-3-659-92539-9.

## EXPERT LECTURES DELIVERED

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1. "Use of Research Tools For Excellent Research Publications", 28<sup>th</sup> April, 2016 at HJD Technical Education and Research Institute, Bhuj, India on One Week STTP on Research Methodology and Tools.
2. "Introduction of Planar Antennas and demonstration of CST Microwave Studio Antenna Design Software", 3<sup>rd</sup> August, 2016 at Dr. Jivraj Mehta Institute of Technology, Anand, Gujarat, India.
3. "Design of Circularly Planar Antennas with DGS", One Week Workshop on Antenna and Microwave Devices: Design, Fabrication & Measurement (AMD:DFM)-2016, on 31<sup>st</sup> August 2016 at Govt. Women Engg. College, Ajmer, Rajasthan, India.
4. "Design and Development of Microwave Filters and its Recent Trends", 1<sup>st</sup> Sept. 2016, Govt. Women Engg. College, Ajmer, Rajasthan, India.
5. "Recent Trends in Microwave Engineering", Interactive session organized under TEQIP activity and approved by Electronics Department and IE (I) EL students' chapter, 17<sup>th</sup> September, 2015, Birla Vishwakarma Mahavidyalaya, Vallabh Vidyanagar, Gujarat.
6. "Planar Antenna Design Using CST Microwave Studio", Department of Electronics and Communication Engg., Dr. Babasaheb Ambedkar Technological University, Lonere, Maharashtra, 23-24 Oct. 2016.
7. "Introduction to Latex", Department of Electronics and Communication Engg., Dr. Babasaheb Ambedkar Technological University, Lonere, Maharashtra, 25<sup>th</sup> Oct. 2016.
8. Delivered Key note Address on, "Applications of Partially Reflected Surfaces in Antenna Design", at 2<sup>nd</sup> International Conference on Communication and Signal Processing, Dr. Babasaheb Ambedkar Technological University, Lonere, Maharashtra, 26-27 Dec. 2016.
9. "Design, analysis and Demonstration of PM-QPSK Optical Communication System, Sardar Vallabhbhai Patel Institute of Technology (SVIT), Vasad, Gujarat, 23<sup>rd</sup> January 2017.
10. Conducted Workshop on, "Latex: A Smart Way to Write Technical Papers, Books and Thesis", Sardar Vallabhbhai Patel Institute of Technology (SVIT), Vasad, Gujarat, 16<sup>th</sup> February 2017.
11. "Design of Planar Filter with DGS and demonstration of CST Microwave Studio", TEQIP II sponsored three days national workshop on "Emerging Trends in Electromagnetics and Its Applications, BVM Engg. College, Vallabh Vidyanagar, Gujarat, India, 29-31 March 2017.
12. "Application of Fractal Defected Ground Structure in design of RFIC Components", at Indus University, Ahmedabad, Gujarat, India, 10<sup>th</sup> April 2018.
13. "Design of Planar Antenna and Recent Trends", at Einfochips Ltd, Ahmedabad, 7<sup>th</sup> Aug. 2018.
14. "Recent Trends in Design of Planar Antenna", at Short Term Training Program on Recent Trends in Electronics and Communication Engg. (RTECE 2018), 24-28 Sept. 2018, Sant Longowal Institute of Engineering and Technology, Longowal, Punjab.
15. Delivered Expert talk in Webinar on "Recent Trends in Antenna Design", at Chitkara University, Punjab, India, 30th Sept. 2020.
16. "Design of Dielectric Resonator Antenna and Demonstration of CST Microwave Studio", in Short term training programme on Emerging trends In Antenna Design (ETAD-20) at Yeshwantrao Chavan College of Engineering, Nagpur, Maharashtra, India, 25 Dec. 2020.
17. "Design of Antenna using characteristics Mode Analysis", in QIP Sponsored Short term course on "Recent Trends in Electronics & Communication Engineering (RTECE-2020) at Sant Longowal Institute of Engineering & Technology, Punjab, India, 20-25 Dec. 2020.
18. "Design of Nano Antenna", on SICI Sponsored online Workshop on Nanoelectronics and VLSI organized by Sant Longowal Institute of Engineering Technology, Punjab, India during February 11th -12th, 2021.

19. "Role of Antennas and Sensor Networks in Wireless Communication", organized by The Institution of Engineers (India), Bathinda (Punjab) Local Centre under the aegis of Electronics and Telecommunication Engineering Division on 26/04/2021.
20. "Accelerating Digital Transformation in Challenging Times", organized by Gujarat Council of Science City, Ahmedabad, sponsored by DST, India on occasion of celebration of World Telecommunication and Information Society Day (17/05/2021).
21. IE(I) Technical Webinar entitled, "Design and Development of Biosensor", organized by The Institution of Engineers (India), Bathinda Local Centre, Punjab on 9th July 2021.
22. "Research Papers writing" in 5 days FDP on " recent trends in research methodologies and tools" organised by Dept. of Information technology, KG College of Arts and science, " Coimbatore, 10<sup>th</sup> Oct. 2022.
23. "Current Trends in Antenna Design and Demonstration of Antenna Design Software", in AICTE Training and Learning (ATAL) academy sponsored two weeks faculty development programme on "Current Avenues in Communication Engineering and VLSI Design" organised by at Sant Longowal Institute of Engineering & Technology, Punjab, India, 13-24 Feb. 2023.
24. An Expert talk on "Introduction to Research Writing Tools", on 14th March 2023 Organized by Chitkara University Hariyana, (Online mode).
25. Delivered a lecture on "Exploring Antennas: The Invisible Bridge of Wireless Signals", at M. S. University, Vadodara, on 23rd August 2025.
26. Delivered a lecture on "From Plan Text to perfect Papers", in one day workshop on LATEX, at M B Patel Institute of Technology, New V V Nagar, on 6th Sept. 2025.

## PATENT PUBLISHED

1. Preet Kaur, **Pravin R. Prajapati**, Manish Sharma, Rajeev Kumar, Gurpreet Singh Saini, Daljeet Singh, Suresh Kumar, "Circular Polarized Antenna Using Gammadion Chiral Metamaterial As Linear-To-Circular Polarization Transformer," www.ipindia.nic.in, The Patent Office Journal No. 07/2021, Date of application: 29/12/2020, Publication Date 12/02/2021, Application No. 202011056842 A.  
[https://ipindia.gov.in/writereaddata/Portal/IP0Journal/1\\_4951\\_1/Part-1.pdf](https://ipindia.gov.in/writereaddata/Portal/IP0Journal/1_4951_1/Part-1.pdf)

## AWARDS RECEIVED

1. Received Best paper award, International Conference on Information and Communication Engineering (ICICE 2021), Shailesh Khant, Atul Patel and **Pravin Prajapati**, "Optical Communication Engineering Simulation Laboratory for Effective Undergraduate Education during Era of Covid 19, organized by Bharat Institute of Engg. and Technology, Telangana, India, Feb. 11-13, 2021.
2. Received Best paper award, International Conference on Information and Communication Engineering (ICICE 2021), **Pravin Prajapati**, Shailesh Khant, "Proximity Coupled Stacked Circular Disc Microstrip Antenna with Improved Cross Polarization Characteristics Using DGS, organized by Bharat Institute of Engg. and Technology, Telangana, India, Feb. 11-13, 2021.
3. Received Best paper award, International Conference on Multidisciplinary and Multilingual on Inclusive and Equitable Quality Education, **Pravin Prajapati**, RakeshKumar Vanzara & Hardik Gandhi, "Promoting Equality and Inclusively through Higher Education: A Case Study of India," organised by Sarvajanic University, Surat, Gujarat, Oct.4-5, 2024.

## WORKSHOPS ORGANIZED

1. Coordinator of One Day workshop on, "Simulation of Optical Systems," Organized by ISTE ADIT chapter held on 28<sup>th</sup> Oct. 2010.
2. Co-Coordinator of One Day workshop on, "GaN Devices and Power Amplifiers," organized by IEEE EDS student chapter branch of IIT Roorkee, held on 10<sup>th</sup> June 2015.
3. Coordinator of One Day workshop on, "Design of Planar Antennas and Demonstration of CST Microwave Studio," organized by EC Dept., ADIT held on 8<sup>th</sup> Aug., 2015.
4. Conducted one day workshop on, "LATEX: A Smart Way to Write Research Papers and Thesis," held on 28<sup>th</sup> Oct. 2015 at A. D. Patel Institute of Technology, Gujarat, India
5. Conducted one day faculty development program on, "Simulation of Optical Systems using Optsim software," on 6<sup>th</sup> Feb. 2016.
6. Coordinator of Faculty Development program, "Entrepreneurship Development," funded by Gujarat State Biotechnology Mission & DST, 5<sup>th</sup> March 2018 to 17<sup>th</sup> March 2018, A. D. Patel Institute of Technology, Gujarat, India.
7. Coordinator of Faculty Development program, "Entrepreneurship Development," funded by National Science and technology Entrepreneurship development board, India, 9<sup>th</sup> Dec. 2019 to 21<sup>th</sup> Dec. 2019, A. D. Patel Institute of Technology, Gujarat, India.
8. Coordinator of three days Online workshop, "Recent Trends in Antenna Design," funded by Institute of Engineers (India), 25<sup>th</sup> Feb. 2021 to 27<sup>th</sup> Feb. 2021, A. D. Patel Institute of Technology, Gujarat, India.
9. Coordinator (team member) of five days real time event, "Smart India Hackathon Hardware edition" supported by Ministry of Education, Government of India, organized by A. D. Patel Institute of Technology, Gujarat, India, 25<sup>th</sup> Aug. 2022 to 29<sup>th</sup> Aug. 2022.
10. Coordinator (team member) of five days International Course on "Innovations in Engineering Teaching, organized by The CVM University, Gujarat, India, as a part of Activity of Erasmus Project, 15<sup>th</sup> July 2024 to 19<sup>th</sup> July 2024.

## SHORT TERM COURSES ATTENDED

2001	<ul style="list-style-type: none"> <li> <span style="color: red;">■</span> Data Base System Concepts      8 days            BVM Engg. College, V. V.Nagar, Gujarat         </li> <li> <span style="color: red;">■</span> Induction Training      5 days            Shri U. V. Patel College of Engg., Mehsana, Gujarat         </li> </ul>
2007	<ul style="list-style-type: none"> <li> <span style="color: red;">■</span> Inculcating Research Aptitude in Engineering Faculty      14 days            Nirma Institute of Technology, Ahmedabad, Gujarat         </li> <li> <span style="color: red;">■</span> Advance Laboratory Techniques in RF and Microwaves      7 days            Sardar Vallabhbhai Institute of Technology, Surat, Gujarat         </li> </ul>
2009	<ul style="list-style-type: none"> <li> <span style="color: red;">■</span> Complete ASIC Design Flow      7 days            Dept. of E&amp;C of Dharmsinh Desai University, Nadiad, Gujarat         </li> </ul>
2014	<ul style="list-style-type: none"> <li> <span style="color: red;">■</span> Micro and Nano Electromechanical Systems      7 days            IIT-Roorkee         </li> </ul>
2020	<ul style="list-style-type: none"> <li> <span style="color: red;">■</span> Technological Interventions using Wireless Communication      7 days            National Institute of Technical Teachers Training and Research, Chandigarh         </li> <li> <span style="color: red;">■</span> Research Trends in VLSI Design      7 days            National Institute of Technical Teachers Training and Research, Chandigarh         </li> </ul>

## SHORT TERM COURSES ATTENDED (continued)

- 2021
- Internet of Things (IOT) 5 days  
Government MCA College, Maninagar, Gujarat & Supported by ATAL Academy
  - Internet of Things (IOT) & its Application 5 days  
GTU - Graduate School of Engineering and Technology, Gujarat & Supported by ATAL Academy.
  - Recent Trends in Opto-electronics and Optical Communication 5 days  
G. P. Pant Institute of Engineering and Technology & AICTE Training and Learning Academy.
- 2022
- A concluding meeting cum training of InterNepInd project", A step forward in the Internationalization of higher Education Institutions in Nepal and India"  
Sarvajanic University, Surat, India (5<sup>th</sup> April to 7<sup>th</sup> April, 2022).
  - AI for Everyone 4 Weeks  
Online Certificate Course by Coursera.
  - Internet of Things: Communication Technologies 4 Weeks  
Online Certificate Course by Coursera.
- 2025
- Teaching and Learning Methodology 5 days  
D Y Patil University, Kolhapur, Maharashtra

## SESSION CHAIR/PUBLICATION CHAIR/TECHNICAL EXPERT

- Session Chair, National Conference on 'Recent Trends in Engineering and Technology,' organised by BVM Engineering College, V. V. Nagar, Gujarat, 13-14 May 2011.
- Member, Organizing Committee, International Conference on Information, Signal and Communication, Organised by A. D. Patel Institute of Technology, Gujarat, 5-6 February 2011.
- Member, Organising Committee, Student Poster Presentation Contest, Organised by IIT-Roorkee, 11 May 2013.
- Technical Program Committee Member, International Conference on Communication and Signal Processing, organized by Dr. Babasaheb Ambedkar Technological University, Maharashtra, India, 26-28 Dec. 2016.
- Session Chair, International Conference on Communication and Signal Processing, organized by Dr. Babasaheb Ambedkar Technological University, Maharashtra, India, 26-28 Dec. 2016.
- Team Member, International Conference on Women in Science & Technology: Creating Sustainable Career, organised by BVM Engineering College, V. V. Nagar, Gujarat, 28-30 January 2016.
- Technical Program Committee Member, Comptelix 2017 (International Conference on Computer, Communications and Electronics 2017).
- Technical Program Committee Member, International Conference on Computing, Communication and Signal Processing, organized by Dr. Babasaheb Ambedkar Technological University, Maharashtra, (IC-CASP 2018), India, 26-27 Jan. 2018.
- Session Chair, International Conference on Computing, Communication and Signal Processing, organized by Dr. Babasaheb Ambedkar Technological University, Maharashtra, (ICCASP 2018), India, 26-27 Jan. 2018.
- Technical Program Committee member, 4<sup>th</sup> International Conference on Computing in Engineering and Technology (ICCET)-2019 organized by Deogiri Institute of Engineering and Management Studies, Aurangabad, Maharashtra, Jan. 10-11, 2019.

- Session Chair, 4<sup>th</sup> International Conference on Computing in Engineering and Technology (ICCET)-2019 organized by Deogiri Institute of Engineering and Management Studies, Aurangabad, Maharashtra, Jan 10-11, 2019.
- Technical Program Committee Member, 6th International Conference on Signal Processing and Communication (ICSC 2019), March 2019 organized by Jaypee Institute of Information Technology, Noida, Uttarpradesh, India.
- Session Chair, International e-Conference on Intelligent Systems and Signal Processing (e-ISSP 2020), organized by G. H. Patel College of Engineering & Technology, V. V. Nagar, Gujarat, India, Dec. 28-30, 2020.
- Session Chair, 6<sup>th</sup> International Conference on Computing in Engineering and Technology (ICCET-2021), organized by Dr. Babasaheb Ambedkar Technological University, Maharashtra, India, Jan. 30-31, 2021.
- Technical Program Committee Member, 7th International Conference on Signal Processing and Communication (ICSC 2021), organized by Jaypee Institute of Information Technology, Noida, Uttarpradesh, India, 25-27 Nov. 2021.
- Session Chair, 7<sup>th</sup> International Conference on Computing in Engineering and Technology (ICCET-2022), organized by Dr. Babasaheb Ambedkar Technological University, Maharashtra, India, Feb. 12-13, 2022.
- Technical Program Committee Member of International Conference on Emerging Electronics Automation (E2A 2022), organized by Department of Electronics & Instrumentation Engineering, NIT Silchar, Assam, India, Dec. 16-18, 2022.
- Technical Program Committee Member, 8th International Conference on Signal Processing and Communication (ICSC 2022), organized by Jaypee Institute of Information Technology, Noida, Uttarpradesh, India, 1-3 Dec. 2022.

## **REVIEWER OF INTERNATIONAL JOURNALS**

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1. IET Microwave and Antenna Propagation International Journal, SCI Index Journal
2. International Journal of RF and Microwave Computer-Aided Engineering, SCI Index Journal
3. International Journal of System Assurance Engineering and Management, Springer Publication
4. International Journal of Sensors, Wireless Communications and Control, Scopus Index Journal
5. Recent Advances in Electrical, Electronics Engineering, Scopus Index International Journal
6. Progress in Electromagnetics Research (PIER), Science Citation Index Expanded and Scopus Index International Journal
7. International Journal of Intelligent Systems Design and Computing, InderScience Publication
8. Microwave and Optical Technology Letters, SCI Index International Journal
9. International Journal of Microwave And Wireless Technologies, Cambridge Univ. Press, London, SCI Index International Journal
10. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, Wiley publisher
11. Optical Engineering, Publisher: SPIE, United States
12. Journal of Nanophotonics, Publisher: SPIE, United States

13. International Journal of Antennas and Propagation, Publisher: Hindawi, Egypt
14. IEEE Sensor Letters
15. International Journal of Management Science and Engineering Management, Publisher Taylor & Francis, London.
16. Optical and Quantum Electronics Journal, Publisher Springer.
17. Telecommunication Systems, Publisher Springer.
18. The Journal of Engineering.
19. Transactions on Components, Packaging and Manufacturing Technology, IEEE.
20. Journal of Sensing and Imaging, Springer Nature
21. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields
22. IETE Journal of Research .

## **REVIEWER OF INTERNATIONAL CONFERENCES**










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1. Reviewer and Technical Program Committee Member of International conference on Communication and Signal Processing, organized by Dr. Babasaheb Ambedkar Technological University, Maharashtra, India, 26-28 Dec. 2016.
2. Reviewer and Technical Program Committee member of Comptelix 2017 (International Conference on Computer, Communications and Electronics 2017)
3. Reviewer of International Conference on Optical & Wireless Technologies (OWT 2017), Malaviya National Institute of Technology Jaipur, India, March 18-19, 2017.
4. Reviewer of IEEE International Conference on Computer, Communications and Electronics 2017, Malaviya National Institute of Technology Jaipur, India (COMPTTELIX-2017), July 1-2, 2017.
5. Technical Program Committee Member of International Conference on Signal Processing and Communication (ICSC 2019) in March 2019 organized by Jaypee Institute of Information Technology, Noida, Uttarpradesh, India.
6. Reviewer and Technical Program Committee member of International Conference on Computing, Communication and Signal Processing, organized by Dr. Babasaheb Ambedkar Technological University, Maharashtra, (ICCASP 2018), India, 26-27 Jan. 2018.
7. Reviewer of International Conference on Optical and Wireless Technologies, (OWT 2018), Feb. 10-11, 2018, Jaipur, Rajasthan, India.
8. Appointed as Reviewer and Technical Program Committee member of 4<sup>th</sup> International Conference on Computing in Engineering and Technology (ICCET)-2019 organized by Deogiri Institute of Engineering and Management Studies, Aurangabad, Maharashtra, Jan 10-11, 2019.
9. Reviewer of International conference on Emerging Trends in Engineering, Science and Technology (ICRISET 2018), 14-15<sup>th</sup> Dec. 2018, Organized by Faculty of Engineering and Technology, Charotar University of Science and Technology (CHARUSAT), Changa, Gujarat, India.
10. Reviewer of 3<sup>rd</sup> International Conference on Optical and Wireless Technologies, (OWT 2018), March 16-17, 2019, Malaviya National Institute of Technology, Jaipur, Rajasthan, India.

11. Reviewer of 6<sup>th</sup> IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON 2019), Jointly organized by Aligarh Muslim University, Ohio State University, National Power Training Institute Technical Sponsors: IEEE IAS and PE/IA Joint Chapter IEEE UP Section, 8-10 Nov. 2019.
12. International Conference on “Research and Innovations in Science, Engineering & Technology” (Digital), (ICRISET-2020), Birla Vishvakarma Mahavidyalaya, Vallabh Vidyanagar, Anand, 4-5 Sept. 2020.
13. Technical Program Committee Member of Indian Conference on Antenna and Propagation (InCap - 2021) organized by Malaviya National Institute of Technology, Jaipur, India, 13-16 Dec. 2021.
14. Reviewer of 5<sup>th</sup> International Conference on Optical and Wireless Technologies, (OWT 2018), Malaviya National Institute of Technology, Jaipur, Rajasthan, India, Oct. 9-10, 2021.
15. International Conference on “Emerging Electronics & Automation 2021 (E2A) organized by NIT Silchar, Assam, India, Dec. 17-19, 2021.
16. Track Chair of 7<sup>th</sup> International Conference on Computing in Engineering and Technology (ICCET 2022) Feb. 12-13, 2022.
17. Reviewer of Parul University International Conference on Engineering and Technology (PiCET- 2022) Vadodara, Gujarat, India, May 20-21, 2022.
18. Reviewer of 5th International Conference on Multimedia, Signal Processing and Communication Technologies IMPACT-2022, organized by Department of Electronics Engineering, Aligarh Muslim University, Aligarh, 26-27 November 2022.
19. Reviewer of International Conference on Emerging Technology and Sustainable Solutions" ICES-2023, organized by Department of Electronics Communication Engineering at Chitkara University, Punjab India, 24-25 November 2023.
20. Reviewer of IEEE International Conference On Electrical, Electronics, Communication and Computers" ELEXCOM-2023, organized by Indian Institute of Technology, Roorkee, (IIT-Roorkee), India, 26-27 Aug. 2023.
21. Reviewer of IEEE 2023 Silchar Subsection Conference (IEEE SILCON-2023), National Institute of Technology Silchar, Assam, India, November 3-5, 2023.
22. Reviewer of IEEE International Conference on Pioneering Developments in Computer Science & Digital Technologies (ic2sdt 2024), National Institute of Technology Delhi, Delhi, India, April 26-28, 2024.
23. Reviewer of 10th International Conference on Signal Processing and Communication (ICSC 2025), Department of Electronics and Communication Engineering, Jaypee Institute of Information Technology (JIIT), Noida, India, Feb. 20-22, 2025.
24. Reviewer of International Conference on Sustainable Energy Technologies and Computational Intelligence (SETCOM 2025), Department of Electrical Engineering, School of Energy Technology Pandit Deendayal Energy University (PDEU), Gandhinagar, Gujarat, India, Feb. 21-23, 2025.
25. Reviewer of International Conference on Synergetic Development through Smart Technology & Digital Transformation-2025 (SDSTD-2025), CVM University, Gujarat, India, June. 25-26, 2025.
26. Reviewer of IEEE 5th International Conference “APPLIED ELECTROMAGNETICS, SIGNAL PROCESSING AND COMMUNICATION (AESPC-2025)”, 5-6 Dec. 2025, Organized by School of Electronics Engg., Kalinga Institute of Industrial Technology, Bhubneshwer, India.








## UG PROJECTS GUIDED

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- 2015 – 2016     Design and Development of UWB Antennas  
Sahil Patel
- 2016 – 2017     Design of UWB Monopole Antenna with Fractal DGS  
Tilak Patel, Sanket Pateliya
- 2017 – 2018     Modeling, Design and Analysis of Efficient Optical Communication Link with EDFA  
Akash Saxena, Yohan Dastoor
-  Modelling, Design and Performance Analysis of Coherent Detection Based Efficient Optical Communication Link  
Rupali Jasrotia
- 2018 – 2019     Design and Development of Triple Band Planar Antenna  
Yasha Sharma, Mavji Prajapati
- 2019 – 2020     Design of Dielectric Resonator Antenna for Wireless Application  
Anshika Sharma, Sanjana Vadgama
-  Study and Simulation of Gain Enhancement Techniques in Design of DRA  
Jhanvi Mistry
-  Design of Antenna Array  
Kritesh Chaubey, Saumya Lohar, Jaynil Patel
- 2020 – 2021     Design and Investigation of 5G Planar Antenna  
Veer Patel




## PG DISSERTATIONS GUIDED

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- 2010 – 2011     Simulation and Analysis of SLA-PIN-HBT and APD-HBT Optical Receivers  
Mr. Shailesh Khant  
Sardar Patel University, V. V. Nagar, Gujarat
- 2011 – 2012     Analysis, Modeling and Simulation of EDFA and its Performance Ratings  
Mr. Ronak Vashi  
Sardar Patel University, V. V. Nagar, Gujarat
- 2015 – 2016     Investigations on Nonlinear Effects in Optical Fiber Communication Systems  
Ms. Nasarin Vohra  
Gujarat Technological University, Gujarat
-  Design and Analysis of Planar Coupler with Defected Ground Structure  
Ms. Poonam Parmar  
Gujarat Technological University, Gujarat
-  Design and Analysis of Ultra Wide Band Planar Antennas With Partially Reflected Surfaces  
Ms. Palak Patel  
Gujarat Technological University, Gujarat
- 2016 – 2017     Study and Investigations of Bandwidth Enhancement Techniques of Dielectric Resonator Antenna (Co-Guide)  
Ms. Rajvi Shah  
Gujarat Technological University, Gujarat
- 2017 – 2018     Design, Investigations and Performance Enhancement of Planar Filters  
Ms. Chandni V. Desai  
Gujarat Technological University, Gujarat


## PhD. SUPERVISING

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- 2017  Performance Enhancement of Polarization multiplexed OFDM-OCDMA System for beyond 100 Gb/s Long-haul Communication  
Mr. Chetan Chauhan  
Gujarat Technological University, Gujarat
-  Design and Development of Microwave Biosensors  
Ms. Sandhya Sharma  
Gujarat Technological University, Gujarat
- 2023  Design and Development of SIW Filters  
Ms. Poonam Pandey  
CVM University, Gujarat



## PhD. AWARDED

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- 2025  Design and Investigations on RF/ Microwave Tunable Filters  
Dr. Mehul Thakkar  
Gujarat Technological University, Gujarat

## FOREIGN VISITS

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- 2014  Beijing City, China  
31st International Union of Radio Science General Assembly and Scientific Symposium (URSI GASS 2014)  
**Purpose:** To present research papers
- 2023  Cartagena, Murcia and Madrid Cities, Spain  
Fostering Inclusive and Equitable Quality Education to stimulate lifelong Sustainable Learning opportunities for HEIs in India  
**Purpose:** Mobility Program of European Union's Capacity Building Project Erasmus+, STRAND-1

## ACADEMIC SERVICES DONE

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1. Involved Departmental activities like Maintenance in-charge, Consumable in-charge, Departmental library in-charge, Departmental Instrument Comparative making, etc.
2. Hostel superintendent of Block 3 (2006-2009).
3. Departmental T& P In charge during AY 2007-08, SEM II.
4. Member of ISO process Laboratory teaching and maintenance (July 2008-2011).
5. ADIT Alumni Association Secretary (October 2006- March 2009).
6. Worked significantly towards Alumni Website registration, Alumni Newsletter, Alumni Expert talk, Alumni Interaction in T&P, Alumni Book Donation, etc.
7. Lab in charge of Power Electronics laboratory during July 2006-Jan. 2009
8. Departmental Consumable in-charge (AY 2007-08)
9. Maintenance In-charge of EC dept (July 2006 to 2011).

10. Program Co-chair of International Conference on Information, Signal and Communication organized by A. D. Patel Institute of Engineering and Technology, V. V. Nagar, Gujarat, India, February 5-6, 2011.
11. Established Center of Research in Optical, Microwave and Antennas (CROMA) to initiate research activities and to help UG, PG and PhD students for their dissertation.
12. Conducted personal coaching especially those students whose degree awaited for one/two subjects and as output of personal coaching, students had cleared subjects.
13. Worked as Professor Incharge, Library, A. D. Patel Institute of Technology, Gujarat from Aug. 2017 to Sept. 2019.
14. Coordinator of Center of Excellence in Advances in Communication Techniques.
15. Working as Branch Counselor of IEEE student chapter of ADIT since Oct. 2024.
16. Working as Secretary and Treasurer of ISTE faculty chapter of ADIT since Aug. 2022.
17. Working as Head of Department of Electronics & Communication Engineering since April 2023.
18. Working as Institute Process Owner of ISO Teaching and Learning Process since April 2021.
19. Working as Departmental Process Owner of the ISO Laboratory Teaching and Learning Process since April 2021.
20. Departmental T& P In charge from year 2020 to 2024.

## Skills

Languages	Reading, writing and speaking for English, Hindi and Gujarati
Softwares and tools	MS Viseo, MS Office $\text{\LaTeX}$ , ...
Modeling and Analysis	CST Microwave Studio, Optiwave, Optsim, Matlab
Soft skill	Team work, Time Management, Organization
Hobby	Academic Research, Teaching, Training, Consultation, Publishing, Travelling, Movie ...

## LIST OF FOUR REFEREES ACQUAINTED WITH MY PROFESSIONAL WORK

- **Dr. M. V. Kartikeyan**, Professor and Director  
IIITDM, Kacheepuram  
contact:09897021157, e-mail: kartik@iitdm.ac.in
- **Dr. Amlendu Patnaik**, Professor  
Dept. of E&C, Indian Institute of Technology, Roorkee-247667  
contact:09997623241, e-mail: apfecfec@iitr.ac.in
- **Dr. Jagdish M. Rathod**, Professor  
Dept. of Electronics Engg., Birla Vishwakarma Mahavidyalaya Engg. College,  
V. V. Nagar, Gujarat  
contact:09428902849, e-mail: jmrathod@bvmengineering.ac.in
- **Dr. Gaurav Singh Baghel**, Assistant Professor  
Dept. of E&C, National Institute of Technology, Silchar  
contact:07987013588, e-mail: gaurav@ece.nits.ac.in

## LIST OF REFEREES FAMILIAR WITH ME

- **Dr. Bhavesh Bhalja**, Professor, Dept of Electrical Engg.,  
IIT Roorkee, Roorkee, Uttarakhand -247664  
contact: 09639471375, e-mail: brb14fee@iitr.ac.in
- **Dr. Kaushal A. Desai**, Associate Professor, Dept of Mechanical Engg.,  
NH 65, Nagaur Road, Karwar-342037  
IIT Jodhpur, Rajasthan  
contact: 07073475302, e-mail: kadesai@iitj.ac.in

## Academic Identity

Google Scholar ID	📌	p2u6u5sAAAAJ
Researcher ID:	📌	C-2315-2015
Scopus ID	📌	54403556900
Orcid ID	📌	0000-0001-7455-4194
Vidwan ID	📌	123471

## Research Indexes

Google Scholar H-index	📌	10
Google Scholar I-10 index	📌	10
Scopus H-index	📌	8
Research Gate Factor	📌	12.64
Research Gate H-index	📌	8
Research Interest Score (Research Gate)	📌	300
Research read (Research Gate)	📌	38,154 as on 4th April 2026
Total Google Scholar Citations	📌	332
Vidwan Score	📌	8.8

## ACADEMIC NETWORKING MEDIA LINKS

Click on weblink to visit website

- **Goggle Scholar:**  
<http://scholar.google.co.in/citations?user=p2u6u5sAAAAJ&hl=en&oi=pll>
- **Research gate::**  
[https://www.researchgate.net/profile/Dr\\_Pravin\\_Prajapati](https://www.researchgate.net/profile/Dr_Pravin_Prajapati)
- **Vidwan:**  
<https://vidwan.inflibnet.ac.in//profile/123471/MTIzNDcx>
- **IRINS:**  
<https://cvmu.irins.org/profile/318775>
- **Linkedin:**  
[www.linkedin.com/in/dr-pravin-r-prajapati-854a92284](http://www.linkedin.com/in/dr-pravin-r-prajapati-854a92284)
- **Publons:**  
<https://publons.com/researcher/1233492/pravin-prajapati/metrics/>
- **Scopus:**  
<https://www.scopus.com/authid/detail.uri?authorId=54403556900>

## SELECTED PG and PhD STUDENT'S PROFILE

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- **Dr. Shailesh Khant**  
Associate Professor & Dean R&D, Charusat University, Changa, Gujarat
- **Prof. Chetan Chauhan**  
Assistant Professor, SPB Patel Engineering College, Gujarat
- **Dr. Mehul Thakkar**  
Assistant Professor, M B Patel Institute of Technology (MBIT), Gujarat
- **Dr. Ronak Vashi**  
Assistant Professor, BVM Engineering College, Gujarat
- **Mrs. Chandni Desai**  
Engineer, Sony Ericsson, Australia
- **Mrs. Poonam Pandey**  
Assistant Professor, M S University, Vadodara, Gujarat

## DECLARATION

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I here by declare that the entries in this form are true to the best of my knowledge and belief.  
I understand that my candidature will be cancelled if any of the information is found false or incorrect.



**Signature**

**(DR. PRAJAPATI PRAVINBHAI RATILAL)**