

## **CURRICULUM VITAE**

**Name** :- MANIRAM AHIRWAR  
**Father Name** :- Late Shri Nathooram Ahirwar  
**Date of Birth** :- 10 Nov 1966  
**Present Address** :- MIG-114, Gaur Nagar, Makroniya, Sagar (M.P.) 470004  
**Permanent Address** :- Vill/Post-Mongna, Distt-Tikamgarh (M.P.) 472101  
**Contact No.** :- 9425353300      **Emil-ID** :- maniram.ahirwar@mp.gov.in, mahirwar@gmail.com  
**Objective** :- To provide my best efforts and skills to pursue a challenging career that provides an environment for growth in research & development and in process creates a symbiotic relationship with the institute.

### **Education Qualification:-**

	Degree	Board/ University	Course/ Specialization	Passing year
01	Ph.D	RKDF University Bhopal	Communication Engineering	Pursuing
02	ME/M-Tech	UOR (Presently IIT) Roorkee	Control & Guidance	2000
03	BE /B-Tech	MACT (Prsently MANIT) Bhopal	E & TC	1991
04	11 <sup>th</sup> (Higher Secondary)	MP Board,Bhopal	Math Group With Tech.Sub.	1984

### **Experience:-**

<b>Industry</b>	02 Apr-1993 to 19 Oct-1993 as a Engineering Assistant, Doordarshan Kendra Bhopal	07 Months
<b>Teaching</b>		
(a)	20 Oct 1993 to 14 June 1994 as a Lecturer Govt. Polytechnic Nowgong	08 Months
(b)	15 June 1994 to 17 Aug 2008 as a Lecturer and Sr. Lecturer at Govt. Engg. College Rewa	14 Years 2 Months
(c)	17 Aug 2008 to till now as a Associate Professor, IGEC Sagar	16 Years
	<b>Total Experience</b>	31 Years 05 Months

### **Books Published:**

S No.	Name of Author / Authors	Title Books	Year of Publication	Cost of Books (RS)	Publisher	ISBN
1	Maniram Ahirwar Dr. Virendra Singh Chaudhary	Antenna Theory and Microstrip Antenna	Oct 2023	590/-	AG Publishing House	978-81-19338-37-5

#### Patents:

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Sr. No .	Application Number	Application Type	Date of Filing	Applicant Name	Title of Invention	Field of Invention	E-Mail (As Per Record)	Additional E-Mail (As Per Record)	Priority Date	Publication Date (Under Section 11A)
1	3711867-001	Ordinary Application	01-10-2022	1-Dr. Ravi Kumar singh Pippal 2-Dr. Virendra Singh Chaudhary 3-Dr. Puneet Dwivrdi 4-Mr. Maniram Ahirwar	Portable IT-Based Plant Health Monitoring System	Communication	<a href="mailto:ravesingh@gmail.com">ravesingh@gmail.Com</a>	<a href="mailto:ravesingh@gmail.com">ravesingh@gmail.Com</a>		25-01-2023
2	202421006268	Ordinary Application	31-01-2024	1-Maniram Ahirwar 2-Dr. Virendra Singh Chaudhary	A Novel Square Array Reflector Plate Equipped Mushroom Cloud Patch Antenna	Communication				01-03-2024

## Professional Members :

1. IETE- Membership Number F-503647
2. Institution Of Engineers Membership Number F-1300128 and
3. ISTE Life Membership

## Research:

Papers Published in Journal : National -00 International-07  
Papers Presented in Conferences : National-01 International-05

## Publications of International Journal:

- [1] S. Shukla, D. S. Rajput and M. Ahirwar, "Self-assessing processes in HPC applications: Alternate approach to Master/Slave Processes," *2017 International Conference on Innovative Mechanisms for Industry Applications (ICIMIA)*, Bengaluru, India, 2017, pp. 1-4, doi: 10.1109/ICIMIA.2017.7975509.  
<https://ieeexplore.ieee.org/document/7975509>
- [2] S. Shukla, M. Ahirwar, R. Gupta, S. Jain and D. S. Rajput, "Audio Compression Algorithm using Discrete Cosine Transform (DCT) and Lempel-Ziv-Welch (LZW) Encoding Method," *2019 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COMITCon)*, Faridabad, India, 2019, pp. 476-480, doi: 10.1109/COMITCon.2019.8862228. <https://ieeexplore.ieee.org/document/8862228>
- [3] Maniram Ahirwar & Virendra Singh Chaudhary, "A Novel Square Array Reflector Plate Equipped Mushroom Cloud Patch Antenna", *PIERC (Progress In Electromagnetics Research, C)*, **Volume No.-138 Issue No-01 PP-65-78**, 02 Oct 2023, **ISSN No-1559-8985**, Impact Factor-20-22 -6.7  
<http://www.jpier.org/PIERC/pier.php?paper=23082003>, doi:10.2528/PIERC23082003, **SCOPUS JOURNAL**  
Published -Online
- [4] Maniram Ahirwar, Virendra Singh Chaudhary, "Advancing Wireless Connectivity: a Dual-Band Microstrip Antenna Enhanced by Hexagon Cell Reflector for Superior Gain and Directivity", *PIER M (Progress In Electromagnetics Research M)*, **Volume No.-124 Issue No-215 PP-53-61**, 15 Feb 2024, **ISSN No-1559-8985**,  
<http://www.jpier.org/PIERM/pier.php?paper=23082003>, doi:10.2528/PIERM23122703, **SCI JOURNAL**  
Published -Online
- [5] Maniram Ahirwar, Virendra Singh Chaudhary, "Hexagon Shaped Coplanar Antenna for Higher Gain and Directivity", *MANIT, BHOPAL* Date of Conference: 24-25 February 2024, **Volume No.-76 Issue No-133 PP-01-06, 02 April 2024, ISSN No-2688-0288**, ISBN Information: Electronic ISBN:979-8-3503-4846-0 Print on Demand(PoD) ISBN:979-8-3503-4847-7 ISSN Information: Electronic ISSN: 2688- 0288 Print on Demand(PoD) ISSN: 2688-027X , **DOI:10.1109/SCEEC61402.2024.10481995** Published -Online , **IEEE Xplore**
- [6] Maniram Ahirwar, Virendra Singh Chaudhary, "Enhancing Antenna Performance: Exploring Partially Reflective Surfaces as Superstrates ", *MANIT, BHOPAL* Date of Conference: 24-25 February 2024, **Volume No.-76 Issue No-133 PP-01-06, 02 April 2024, ISSN No-2688-0288** , ISBN Information: Electronic ISBN:979-8-3503-4846-0 Print on Demand(PoD) ISBN:979-8-3503-4847-7 ISSN Information: Electronic ISSN: 2688- 0288 Print on Demand(PoD) ISSN: 2688-027X , **DOI: 10.1109/SCEEC61402.2024.10482245** Published -Online, **IEEE Xplore**
- [7] Maniram Ahirwar & Dr.Virendra Singh Chaudhary "Improved Gain and Directivity in Wireless Micro strip Antenna with Ring Reflector" Presented in a Three Day, **International Conference i.e. 38-Indian Engineering Congress** ", dated-27<sup>th</sup>- 29<sup>th</sup> Dec 2023 in Electronics and Communication Engineering, Organized by. The Institution of Engineers (India),Established 1920, Incorporated by Royal Charter 1935,A Century of Service to the Nation, 38 Indian Engineering Congress at Hotel Royal Orbit, Jabalpur, IEC 2023 TV / 023 , Room1-Mercury/Technical Session-IX. DAY-3. Dt: 29.12.2023 (ET/ R1S9) Time: 0900Hrs-11030Hrs, IEI Officer: AYAN DEB (Mob # 8420020171) Session Chairman:
- [8] Amy Alice Kujur, Maniram Ahirwar & Dr.Virendra Singh Chaudhary (2024), "Efficient Energy Optimization Routing Protocol in Homogeneous Wireless Sensor Networks" *International Journal of Intelligent Systems and Applications in Engineering*, 12(23s), 2215–2226. Retrieved from <https://ijisae.org/index.php/IJISAE/article/view/7306>

- [8] Amy Alice Kujur, Maniram Ahirwar & Dr.Virendra Singh Chaudhary (2024), "Energy Efficient Cluster-Based Routing Protocol for Wireless Sensor Network Using Hybrid Bio-Inspired Swarm Intelligence Algorithm". *International Journal of Intelligent Systems and Applications in Engineering*, 12(23s), 2227 <https://ijisae.org/index.php/IJISAE/article/view/7308>

#### Papers Presented /Attended in International Conferences:

- [1] S. Shukla, D. S. Rajput and M. Ahirwar, "Self-assessing processes in HPC applications: Alternate approach to Master/Slave Processes," *2017 International Conference on Innovative Mechanisms for Industry Applications (ICIMIA)*, Bengaluru, India, 2017, pp. 1-4, doi: 10.1109/ICIMIA.2017.7975509. <https://ieeexplore.ieee.org/document/7975509>
- [2] S. Shukla, M. Ahirwar, R. Gupta, S. Jain and D. S. Rajput, "Audio Compression Algorithm using Discrete Cosine Transform (DCT) and Lempel-Ziv-Welch (LZW) Encoding Method," *2019 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COMITCon)*, Faridabad, India, 2019, pp. 476-480, doi: 10.1109/COMITCon.2019.8862228. <https://ieeexplore.ieee.org/document/8862228>
- [3] **Maniram Ahirwar & Dr.Virendra Singh Chaudhary " Improved Gain and Directivity in Wireless Micro strip Antenna with Ring Reflector"** Presented in a Three Day, **International Conference i.e. 38-Indian Engineering Congress "**, dated-27<sup>th</sup>- 29<sup>th</sup> Dec 2023 in Electronics and Communication Engineering, **Organized by. The Institution of Engineers (India),Established 1920, Incorporated by Royal Charter 1935,A Century of Service to the Nation, 38 Indian Engineering Congress at Hotel Royal Orbit, Jabalpur, IEC 2023 TV / 023 , Room1-Mercury/Technical Session-IX. DAY-3. Dt: 29.12.2023 (ET/ R1S9) Time: 0900Hrs-11030Hrs, IEI Officer: AYAN DEB (Mob # 8420020171) Session Chairman:**
- [4] **Maniram Ahirwar & Dr.Virendra Singh Chaudhary " Hexagon Shaped Coplanar Antenna for Higher Gain and Directivity"** Participated in a Two Day, **9th IEEE International Students' Conference on Electrical, Electronics and Computer Science SCEECS 2024, dated-24th & 25th Feb 2024**, in Electronics and Communication Engineering, **Organized by. IEEE Student Branch. MANIT, Bhopal ,at MANIT Bhopal MP , Paper ID-368**
- [5] **Maniram Ahirwar & Dr.Virendra Singh Chaudhary " Enhancing Antenna Performance: Exploring Partially Reflective Surfaces as Superstrates"** Participated in a Two Day, **9th IEEE International Students' Conference on Electrical, Electronics and Computer Science SCEECS 2024, dated-24th & 25th Feb 2024**, in Electronics and Communication Engineering, **Organized by. IEEE Student Branch. MANIT, Bhopal ,at MANIT Bhopal MP , Paper ID-574.**

#### Papers Presented / Participated in National Conferences:

- [1] Participated in Two Days National Conference,ON, " MPCST Sponsored National Conference on Contemporary Technological Solutions towards fulfilment of Social Needs ",Comparative Analysis of Microstrip Antenna for Gain and Directivity Improvement dated on 03-04 March 2023 Organised by RKDF, Bhopal.