


## Curriculum Vitae

### 1. Personal Details

(i)	Name	<b>AJAY PARMAR</b>	
(ii)	Father's Name	SHRI BHARAT SINGH PARMAR	
(iii)	Date of Birth	22/04/1989	
(iv)	Address for Communication	Electronics and Telecommunication Engineering Department, SGSITS, Indore.	
(v)	Permanent Address	103, Village Rupakheda, Post Mandlinathu, Tehsil Ranapur, District Jhabua, 457993 (M.P.)	
(vi)	Contact Details	0731-2582458	
(viii)	Nationality/Religion	INDIAN	

### 2. Educational Qualifications

No.	Degree	Year	University/Institute	Division	Specialization
1.	M. Tech	2014	NIT Silchar, (Assam)	First	Microelectronics & VLSI Design.
2.	B.E.	2012	Rewa Engineering College, Rewa (M.P.)	First	Electronics & Telecommunication.

#### **M. Tech. Dissertation Title:**

Non uniform meander based low actuation voltage high capacitance ratio RF MEMS shunt capacitive switch

### 3. Present Position Held

Assistant Professor, Electronics and Telecommunication Engg. Department, SGSITS, Indore, 452003, (M.P.)

### 4. Career History and Profile of Work Experience:

(a)	Academic / Teaching Experience and subjects taught
(i)	Basic Electronics
(ii)	Analog and Digital Electronics
(iii)	Electromagnetic Waves
(b)	<b><u>Other Academic Experiences and positions/responsibilities held</u></b>
(c)	<b><u>Relevant Administrative Experience</u></b>
(d)	<b><u>Other Academic cum Administrative Experiences and Positions Held</u></b>

## 5. Research Experience

**Are of Research Interest:** Microelectronics & VLSI Design, RF MEMS & Antenna Design

### **Technical Papers Publications**

#### **(I) International and National Journals**

- (i) Koushik Guha, Mithlesh Kumar, **Ajay Parmar**, Srimanta Baishya, Performance analysis of RF MEMS capacitive switch with non-uniform meandering technique, Microsystem Technologies, Volume 22, Issue 11, Springer Berlin Heidelberg Nov. 2016, Page 2633-2640.
- (ii) Leevanshi Rao, Mohit Pant, Leeladhar Malviya, **Ajay Parmar**, Sandhya Vijay Charhate, 5G beamforming techniques for the coverage of intended directions in modern wireless communication: in-depth review, International Journal of Microwave and Wireless Technologies, DOI: <https://doi.org/10.1017/S1759078720001622>, Dec. 2020, Page 1-24.
- (iii) Om Prakash Mahto, S. Baishya, Koushik Guha, **Ajay Parmar**, A Novel SB-MOSFET with Record Switching Characteristic, International Journal of Innovative Research in Science, Engineering and Technology, Volume 3, Special Issue 3, March 2014, Page 1545-1548.
- (iv) Leeladhar Malviya, **Ajay Parmar**, Deepak Solanki, Parul Gupta, Priyanshi Malviya, Highly isolated inset-feed 28 GHz MIMO-antenna array for 5G wireless application, Procedia Computer Science, Elsevier, Volume 171, Jan. 2020, Page 1286-1292.

#### **(a) Technical Papers –International /National Conferences**

- (i) Koushik Guha, Mithlesh Kumar, **Ajay Parmar**, Srimanta Baishya, Non uniform meander based low actuation voltage high capacitance ratio RF MEMS shunt capacitive switch, IEEE 9th Nanotechnology Materials and Devices Conference (NMDC), IEEE, Oct. 2014, Page 120-123.
- (ii) Leeladhar Malviya, Parul Gupta, **Ajay Parmar**, Deepak Solanki, Priyanshi Malviya, MIMO antenna design with low ECC for mmWave, 2019 IEEE Indian Conference on Antennas and Propagation (InCAP), IEEE, Dec. 2019, Page 1-5.
- (iii) Mantar Singh Mandloi, **Ajay Parmar**, Priyanshi Malviya, Leeladhar Malviya, Design of dual-band MIMO antenna with inverted L-shaped arms for 5G applications, 2022 IEEE 11th International Conference on Communication Systems and Network Technologies (CSNT), IEEE, 23 April 2022, Page 60-65.
- (iv) Rohit Yadav, **Ajay Parmar**, Leeladhar Malviya, Dhiraj Nitnaware, Ultra-Wideband MIMO Antenna Design with High Isolation for THz Application, 2022 IEEE 11th International Conference on Communication Systems and Network Technologies (CSNT), IEEE, 23 April 2022, Page 26-30.
- (v) Rohit Yadav, **Ajay Parmar**, Leeladhar Malviya, Dhiraj Nitnaware, Graphnen based multiband stack patch THz antenna with proximity feed, 2021 IEEE Indian Conference on Antennas and Propagation (InCAP), 13 Dec. 2021, Page 544-547.
- (vi) Mantar Mandloi, **Ajay Parmar**, Priyanshi Malviya, Leeladhar Malviya, 4x4 Butler Matrix Design for Multibeam Operation for Radar Application, 13 Dec. 2021, Page 533-536.

(vii)	Rohit Yadav, <b>Ajay Parmar</b> , Leeladhar Malviya, Dhiraj Nitnaware, 28 GHz Inset Feed Circular Shaped Compact Patch Antenna Array for 5G Wireless Communication, 2021 10th IEEE International Conference on Communication Systems and Network Technologies (CSNT), 16 June 2021, Page 1-4.
(viii)	Leevanshi Rao, Leeladhar Malviya, MPS Chawla, <b>Ajay Parmar</b> , MIMO-Array Antenna with Beamforming for 5G Applications, 2021 10th IEEE International Conference on Communication Systems and Network Technologies (CSNT), 18 June 2021, Page 27-32.
(b)	<b><u>Member of Editorial Board</u></b>
(c)	<b><u>Books/Proceedings</u></b>
(i)	<b>Book chapter:</b> Mantar Singh Mandloi, <b>Ajay Parmar</b> , Priyanshi Malviya, Leeladhar Malviya, “Butler Matrix Design for Smart Antenna in X-Band Applications, Recent Trends in Electronics and Communication, Springer, Singapore,
(ii)	Mantar Singh Mandloi, <b>Ajay Parmar</b> , Karan Gehlod, Ashish Shakya, Priyanshi Malviya, Leeladhar Malviya, “5G-NR wideband MIMO antenna design using stepped radiators for wireless communication, Advanced Wireless Communication and Sensor Networks, CRC Press USA. (Accepted)
(e)	<b>Patents filed / Obtained</b>

## 6. Awards/ Honours / Special Achievements

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## 7. Membership of Professional Societies

(i)	Life membership of The Indian Society for Technical Education (ISTE) with membership number LM 126442 from 2019.

## 8. Testing and Consultancy Projects undertaken

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## 9. List of Conference/Workshops Organized

(i)	Worked as team member in organizing committee for AICTE Sponsored Two Week Faculty Development Programme on “ <b>Recent Advances in Microwave and</b>

	<b>Communication [RAMC-2019] Covering Concepts to Applications”</b> from Dec. 03 to Dec. 13, 2019 organized by Department of Electronics and Telecommunication Engineering at SGSITS, Indore.
(ii)	Worked as team member in organizing committee for one-week AICTE-ISTE Induction/Refresher Programme on <b>“Design Development Fabrication and Measurement Techniques for Next Generation Antennas”</b> [DDFMT-2018] from November 30 to December 6, 2018 at SGSITS, Indore.
(iii)	Worked as team member in organizing committee for one-week AICTE-Idea Lab Faculty Development Programme on <b>“Advance FDP on smart manufacturing”</b> from 20 July to 26 July 2022, at SGSITS, Indore.

10.	<u>List of Seminars / Workshops/Summer/Winter Courses Attended</u>
(i)	Participated in One Week International Workshop on “Metamaterial & its Applications” during July 27-31, 2020 organized by IEEE Delhi Section Antenna & Propagation Society (APS) Chapter – Jaipur in association with IEEE Rajasthan Subsection, Malviya National Institute of Technology Jaipur and Govt. Women Engineering College, Ajmer.
(ii)	Attended five days Faculty Development Program on "Algorithms and Techniques for Signal Processing" conducted during 14/07/2020 to 18/07/2020 jointly organised by College of Engineering, Pune (COEP) and Manipur Technical University (MTU), Imphal and sponsored by Center of Excellence in Signal and Image Processing (COE-SIP) under TEQIP-III.
(iii)	Participated AICTE Training and Learning (ATAL) Academy Online FDP on "Robotics- An Application in Medical Science" from 2020-12-1 to 2020-12-5 at Maulana Azad National Institute of Technology, Bhopal.
(iv)	Two weeks on Digital Transformation in Teaching learning process (February 14 <sup>th</sup> to March 16 <sup>th</sup> , 2020. Course offered by IIT Bombay.
(v)	Participated online Training Programme on Digital tools for Writing, Authoring & Reviewing Manuscripts jointly organized during 21st September and 2nd October 2020. Electronics & ICT Academies MNIT Jaipur, NIT Patna & IIT Guwahati.
(vi)	Participated in the Online Faculty Development Program on “Recent Trends in Beyond 5G”, conducted from 19th to 23th September 2020, Under the Scheme of MHRD, Govt. of India “Ek Bharat Shrestha Bharat” sponsored by TEQIP-III Ujjain Engineering College, Ujjain with Twinning Partner GEC, Aurangabad.
(vii)	Participated AICTE Training and Learning (ATAL) Academy Online FDP on "Flexible and Wearable Antennas: Recent Advancements, Fabrication Techniques and Applications" from 2020-10-12 to 2020-10-16 at National Institute of Technical Teachers Training and Research.
(viii)	Attended Workshop on “The Growing Role of IOT in Covid-19 and Health Care”, by Dr. Shriram K. Vasudevan, from 8th to 10 <sup>th</sup> June 2020, organized by Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal with Department of Information Technology, Shri G. S. Institute of Technology & Science, Indore (M.P.) in association with WILEY India Pvt. Ltd.

(ix)	Participated in a two weeks online Faculty Development Programme on “Machine Learning for Computer Vision” jointly organized by the Electronics and ICT Academies at IIT Guwahati, IIT Kanpur, MNIT Jaipur, NIT Patna and PDPM IITDM Jabalpur during February 1-12, 2021 under the “Scheme of financial assistance for setting up of Electronics and ICT Academies” of the Ministry of Electronics and Information Technology (MeitY), Government of India.
(x)	Participated in “Research Conclave” organised on 10 <sup>th</sup> -11 <sup>th</sup> July 2020. College of Engineering Pune in association with SGSITS-Indore & MTU-Imphal.
(xi)	Attended Short Term Training Program on “Design and Development of system on chip using low power VLSI”, sponsored by AICTE during 25 <sup>th</sup> -30 <sup>th</sup> November 2019, Organized by the Department of Electronics and Instrumentation Engineering, Shri G.S. Institute of Technology and Science, Indore, (M.P.).

**AJAY PARMAR**  
**ASSISTANT PROFESSOR**  
**ELEX & TC, Dept.**