

## CURRICULUM VITAE

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### **Career Objective**

To employ all my skills and knowledge for the development of education and research so that it can better serve the needs of the society.

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### **Publications**

<https://scholar.google.co.in/citations?user=VOPsFnUAAAAJ&hl=en>

#### **Peer Review International Journal:**

1. Rachita Tripathy, **Situ Rani Patre**, Sagi Sravan Kumar, P. Sajith, "A technical survey on unidirectional circularly polarized crossed dipole antennas", *AEU - International Journal of Electronics and Communications*, Vol. 172, 154945, 2023, doi.: 10.1016/j.aeue.2023.154945.
2. **Situ Rani Patre**, "Passive Chipless RFID Sensors: Concept to Applications – A Review," *IEEE RFID Journal*, 6, pp. 64-76, 2021, doi.:10.1109/JRFID.2021.3114104.
3. **Situ Rani Patre** and Surya P. Singh, "Shared Radiator MIMO Antenna for Broadband Applications," *IET Microwaves, Antennas & Propagation*, Vol. 12, Issu. 7, pp. 1153-1159, 2018.
4. **Situ Rani Patre** and S. P. Singh, "Dielectric-Loaded Trapezoidal Toothed Log-periodic Antenna," *International Journal of RF and Microwave Computer-Aided Engineering*, Vol. 27, Issu. 3, pp.1-8.
5. **Situ Rani Patre** and Surya P. Singh, "Broadband MIMO Antenna using Castor Leaf-Shaped Quasi-Self-Complementary Elements," *IET Microwaves, Antennas & Propagation*, Vol. 10, Issu. 15, pp. 1673-1681, 2016.
6. **Situ Rani Patre** and S. P. Singh, "Study of Microstrip Line-fed Flower-shaped Patch Antenna Providing Enhanced Bandwidth and Radiation Efficiency," *Microwave and Optical Technology Letters*, Vol. 58, No. 9, pp. 2041-2046, 2016.
7. **Situ Rani Patre** and Surya P. Singh, "CPW-Fed Flower-Shaped Patch Antenna for Broadband Applications," *Microwave and Optical Technology Letters*, Vol. 57, No. 12, pp. 2909-2913, 2015.
8. **Situ Rani Patre**, Soni Singh, and S. P. Singh, "Study of Trapezoidal Toothed Log-Periodic Antenna fed through Tapered Microstrip-to-Coplanar Stripline Transition," *Microwave and Optical Technology Letters*, Vol. 57, No. 7, pp. 1671-1677, 2015.
9. Soni Singh, **Situ Rani Patre**, and S. P. Singh, "A Study on Aperture Admittance of Rectangular Waveguide Terminated in Infinite Lossy Medium of Different Complex Permittivity Values," *International Journal of Microwave and Optical Technology*, Vol. 9, No. 5, pp. 359-364, 2014.

#### **National/International Conferences:**

1. Amrit Prasad Behera, Rachita Tripathy, Sagi Sravan Kumar, Sajith P, and **Situ Rani Patre**, Metasurface-Based Crossed Dipole Antenna with Curved Ends, **National Conference on Intelligent Systems, IoT, and Wireless Communication for the Society**, 16-17 February 2024, NIT Rourkela.
2. Chitturi Suneel Kumar and **Situ Rani Patre**, Comparative Study on Chipless RFID Tags with flexible substrates, **National Conference on Intelligent Systems, IoT, and Wireless Communication for the Society**, 16-17 February 2024, NIT Rourkela.
3. Chitturi Suneel Kumar and **Situ Rani Patre**, Concentric Ring-Based Multibit Chipless RFID Tag, **2024 IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS 2024)**, 23-25 February 2024, MANIT Bhopal.
4. Rachita Tripathy, Sagi Sravan Kumar, Sajith P, and **Situ Rani Patre**, A Broadband Circularly Polarized Crossed Bowtie Antenna, **2024 IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS 2024)**, 23-25 February 2024, MANIT Bhopal.
5. **Situ Rani Patre**, TKS V Poorna Charan and Chitturi Suneel Kumar, RFID Sensors and Antennas for Smart Agriculture and Intelligent Food Packaging, **Young Scientist Conference, India International Science Festival (YSC IISF) 2023**, 17-20 January 2024, Faridabad, India.
6. **Situ Rani Patre** and S P Singh, An Overview on Nature-Inspired Broadband Antennas, **IEEE ISAP, 2023** in Malasiya.

7. M G Chamodhie Samudrini, TKS V Poorna Charan, E Sai Sudeepthi, and **Situ Rani Patre**, Comparative Study of Chipless RFID Tag Resonator for Orientation-Independent Properties and Bit-Capacity, **IEEE Wireless, Antenna and Microwave Symposium (WAMS) 2023, 7-10 June 2023, Ahmedabad.**
8. Rachita Tripathy, **Situ Rani Patre**, Sagi Sravan Kumar, and Sajith P, High Gain Cylindrical Cavity-Backed Crossed Dipole Antenna, **IEEE Wireless, Antenna and Microwave Symposium (WAMS) 2023.**
9. Elugam Sai Sudeepth, TKS V Poorna Charan, Sri Venkata Surya Teja Jonnalagadda and **Situ Rani Patre**, Orientation Insensitive Chip-less RFID Tag using Modified Concentric Rings, **3<sup>rd</sup> IEEE INTERNATIONAL CONFERENCE ON RANGE TECHNOLOGY (ICORT 2023).**
10. **Situ Rani Patre**, K Murli, and TKS V Poorna Charan, Stub-Loaded Uniplanar Monopole Antenna for Circular Polarization, **IEEE Microwave Antenna and Propagation Conference (MAPCON) 2022**, 13-15 December, 2022, Bangalore, India.
11. TKS V Poorna Charan and **Situ Rani Patre**, Orientation-Independent Flower-Shaped Chipless RFID Tag for ISM Band Applications, **IEEE Microwave Antenna and Propagation Conference (MAPCON) 2022**, 13-15 December, 2022, Bangalore, India.
12. Swathi S Babu, E Sai Sudeepthi, and **Situ Rani Patre**, Sub-6 GHz supported Dual-Band Folded MIMO Antenna For Mobile Handset, **IEEE Microwave Antenna and Propagation Conference (MAPCON) 2022**, 13-15 December, 2022, Bangalore, India.
13. Rachita Tripathy, Kolli Sumana, and **Situ Rani Patre**, A Low-Profile Uniplanar Circularly Polarized Monopole Antenna for X-band Applications, **9<sup>th</sup> IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON-2022)**, 2-4 December 2022, IIT Allahabad, India.
14. Swathi S Babu, **Situ Rani Patre**, Meandered-Line Folded Antenna for Sub-6 GHz Supported MIMO System, **2022 3<sup>rd</sup> International Conference for Emerging Technology (INCET)**, 27-29 May 2022.
15. Chitturi Suneel Kumar and **Situ Rani Patre**, "Array of chipless RFID sensor tag for wireless detection of crack on large metallic surface" **11<sup>th</sup> IEEE International Conference on RFID-TA 2021**. 06-08 October 2021.
16. Chitturi Suneel Kumar and **Situ Rani Patre**, "Compass-shaped RFID Sensor Tag for Metal Crack Detection," **IEEE 2<sup>nd</sup> International Conference of Emerging Technologies 2021 (2<sup>nd</sup> INCET 2021)**, 21<sup>st</sup> – 23<sup>rd</sup> May 2021, Belgaum, Karnataka, India. DOI: 10.1109/INCET51464.2021.9456272.
17. **Situ Rani Patre**, "Bandwidth Enhancement of Trapezoidal Toothed Log- Periodic Antenna using Slot Configuration" **3<sup>rd</sup> International Conference on VLSI, Communication and Signal Processing (VCAS 2020)**, 9<sup>th</sup> -11<sup>th</sup> October 2020, MNNIT Allahabad, Prayagraj (U.P.), India. 10.1007/978-981-16-2761-3.
18. **Situ Rani Patre**, Anshul Gupta, and Shweta Mahule, "Wideband Trapezoidal Toothed Log-periodic Slot Antenna," **TEQIP III Sponsored National Conference on VLSI, Communication & Computing (VCC 2017)**, 9<sup>th</sup> December 2017, Department of Electronics and Telecommunication, National Institute of Technology Raipur, Chhattisgarh.
19. **Situ Rani Patre** and S. P. Singh, "Leaf-shaped Log-periodic Slot Antenna for Broadband Applications," **2017 International Symposium on Antennas and Propagation (ISAP)**, 30 October - 2 November 2017, Phuket, Thailand. DOI: 10.1109/ISANP.2017.8229049. (Citation: 1)
20. **Situ Rani Patre**, "Impact of RF Energy Harvesting on Wireless Society, **National Conference on Energy, Environment and its Impact on Society (NCEEIS-2017)**," 19-20 January 2017, K. N. Govt. P. G. College, Gyanpur, Bhadohi, India.
21. Pragati, S. L. Tripathi, **Situ Rani Patre**, Soni Singh, and S. P. Singh, "Triple-band Microstrip Patch Antenna with Improved Gain," **International Conference on Emerging Trends in Electrical, Electronics & Sustainable Energy Systems (ICETEES-16)**, 11-12 March 2016, KNIT Sultanpur, India. DOI: 10.1109/ICETEES.2016.7581362. (Citation: 5)
22. **Situ Rani Patre**, S. P. Singh, "Castor leaf-shaped Quasi-Self-Complementary Antenna providing Enhanced Bandwidth," **National Conference on Recent Advancement in Communication Engineering and Microelectronics (RACEM-2016)**, 09-10 March, 2016, MMMUT Gorakhpur, India.
23. **Situ Rani Patre**, S. P. Singh, "Castor Leaf-shaped Quasi-Self-Complementary Antenna with Dual-Band-Rejection Characteristics," **Applied Electromagnetics Conference (AEMC 2015)**, 18-21 December 2015, Guwahati, India. DOI: 10.1109/AEMC.2015.7509204. (Citation: 1)
24. **Situ Rani Patre**, S. P. Singh, "Castor Leaf-Self-Complementary Antenna for Broadband Applications," **International Conference on Microwave and Photonics (ICMAP 2015)**, 11-13 December, 2015, Dhanbad, India. 10.1109/ICMAP.2015.7408782. (Citation: 4)
25. **Situ Rani Patre**, S. P. Singh, "MIMO Antenna using Castor Leaf-shaped Quasi-Self-Complementary Elements for Broadband Applications," **International Microwave and RF Conference (IMaRC 2015)**, 10-12 December 2015, Hyderabad, India. DOI: 10.1109/IMaRC.2015.7411400. (Citation: 4)
26. Soni Singh, **Situ Rani Patre**, and S. P. Singh, "TiO<sub>2</sub> Loaded Metal-Dielectric Diagonal Horn Antenna for Hyperthermia Application," **5<sup>th</sup> Edition of the IEEE India Antenna Week (IAW-2014)**, 26-30 May 2014, Chandigarh, India.

27. **Situ Rani Patre**, Soni Singh, and S. P. Singh, "Trapezoidal Toothed Log-Periodic Antenna with Microstrip-to-Coplanar Stripline Transition," **5<sup>th</sup> Edition of the IEEE India Antenna Week (IAW-2014)**, 26-30 May 2014, Chandigarh, India.
28. Soni Singh, Kranti Kumar Katare, **Situ Rani Patre**, and S. P. Singh, "Performance Comparison of SAR Distributions in Phantom Bio-medium Due to TiO<sub>2</sub> Loaded Metal Diagonal and Square Horn Antennas," **International Microwave and RF Conference (IMaRC 2013)**, pp. 1-4, 14-16 December 2013, New Delhi, India. 10.1109/IMaRC.2013.6777748. (Citation: 1)
29. **Situ Rani Patre**, Soni Singh, and S. P. Singh, "Effect of Dielectric Substrate on performance of Planar Trapezoidal Toothed Log-Periodic Antenna," **2<sup>nd</sup> Students' Conference on Engineering and System (IEEE SCES 2013)**, pp. 1-4, 12-14 April 2013, MNNIT Allahabad, India. DOI: 10.1109/SCES.2013.6547541. (Citation: 2)
30. **Situ Rani Patre**, Soni Singh, and S. P. Singh, "Planar Trapezoidal Toothed Log-Periodic Antenna," **8<sup>th</sup> International Conference on Microwaves, Antenna, Propagation and Remote Sensing (ICMARS-2012)**, pp. 185-188, 11-15 December 2012, Jodhpur, India.

### Book Chapters:

1. **Situ Rani Patre**, Akhtar Khan, Energy Harvesting, Storage and Conversion, Environmental Aspect of Alternative Energy Sources, ISBN: 978-93-89657-43-2, 2020.
2. Akula Siva Bhaskar, Akhtar Khan, **Situ Rani Patre**, Application Potential of Fuzzy Embedded TOPSIS Approach to Solve MCDM Based Problems, Intelligent Manufacturing, Springer International Publishing, Print ISBN: 978-3-030-50311-6, Electronic ISBN: 978-3-030-50312-3, 2020.

### Sponsored Projects

1. Design and Development of Environment - friendly, Conformal, Chipless RFID Sensor Tag and Compact Broadband Reader Antenna for Intelligent Food Packaging. Budget: Rs 29,41,400/- **Science & Engineering Research Board (SERB), Principle Investigator.**
2. Development of multi-arm Toothed Log-periodic Antenna for Geodetic grade Multi GNSS. Budget: Rs. 11,10,381/- **Indian Space Research Organization (ISRO), Principle Investigator.**

### Workshop/Short term Course organized

1. SERB sponsored Karyashala, A high-End Workshop on Futuristic Trends in Remote Sensing using IoT enabled UAVs with Microwave Sensor, 22 Jan 2024 - 28 Jan 2024 at NIT Rourkela.
2. Emerging Wireless Communications: 6G and Beyond, 09 May 2022 - 13 May 2022 at NIT Rourkela.
3. IEEE Expert Lecture on Beam-Scanning Antenna Systems, 09 Aug 2022 at NIT Rourkela.
4. Strategies of Stress Free Healthy Life, 07 Feb 2022 - 11 Feb 2022 at NIT Rourkela.

### Awards and Fellowship

- Selected for **BRICS Young Scientist 2023.**
- **IEEE Antennas and Propagation Society (APS) Young Professional Ambassador 2022.**
- Selected for **Rajiv Gandhi National Fellowship, UGC, India, 2013.**
- **Institute Fellowship, MHRD, India, during M. Tech. and Ph. D. (2009-2016).**

### Invited Lectures in FDP/STTP

1. Plenary Talk in International **IEEE Symposium on Antennas and Propagation (ISAP)** on 31 October 2023 in Kuala Lumpur, Malasiya.
2. **Broadband MIMO Antennas** on 21 July 2023 in Short-Term-Course on Emerging Technologies for 6G Communication organized by NIT Rourkela, India.
3. Technical Talk on **Impact of Telecommunication Technologies: An Special attention to Antennas for Wireless Communication** on 17 May 2023 organized by Institution of Engineers (India), Rourkela Chapter.
4. IEEE Young Professional Talk on **Analysis of Broadband MIMO Antennas using Surface Current Distribution** organized by IIT(BHU), Varanasi, 22 Jan 2023.
5. **Design of Broadband MIMO Antenna** 11 May 2022 in SERB sponsored Five-Day Online Short-term Course on "Emerging Wireless Communications: 6G and Beyond" organized by NIT Rourkela, India.
6. **Antenna Design and its Applications** on 21 Mar 2022 in Online E & ICT Faculty Development Programme (FDP) on "Applications of Artificial Intelligence in Communication and Signal Processing (AICSP)" organized by NIT Warangal.

7. **Importance of Yoga and Meditation for Healthy Life** on 23 Dec 2021 in AICTE-ISTE Sponsored Online Research Training Program on “Electric Vehicle and Smart Grid: A path towards Sustainable Energy” organized by KIIT Bhubaneswar, Odisha.
8. **Yoga for Healthy Life** on 13 August 2021 in online ATAL FDP on “Emerging Techniques and Applications for IoT (ETAI-2021)” organized by VSSUT, Burla, Odisha.
9. **Impact of Innovative Wireless Communication in Current Era** on 30 March 2021 in DBT Star scheme organized by K N Govt. PG College, Gyanpur, Bhadohi, Uttar Pradesh
10. **Current Trends in Engineering Projects** on 29 November 2020 in online seminar series jointly organized by Skill Development Cell and Department of Electronics and Communication Engineering, School of Studies in Engineering & Technology, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh.
11. **Investigations on Compact Broadband Antennas having Nature-inspired geometry** on 27 November 2020 in AICTE sponsored Online STTP on “Design and Simulation of Miniature Antennas for IoT Applications” organized by M.V.G.R College of Engineering, Vizianagaram, Andhra Pradesh.
12. **Investigation on Planar Broadband Antennas** on 18 November 2020 in AICTE sponsored Online FDP on “Wearable Devices [Design and Characterization of Microwave Components and Antennas, (DCMCA)” organized by Department of Electronics and Communication Engineering, TIET, Patiala, Punjab.
13. **Investigations on Broadband MIMO Antenna** on 29 October 2020 in AICTE sponsored Online STTP on “Antenna Design and Analysis using Mathematical Solvers” organized by Aditya Institute of Technology and Management (A), Tekkali, Andhra Pradesh.
14. **Broadband MIMO Antennas** on 22 August 2020 in AICTE sponsored Online Short Term Training Programme (STTP) on “Massive MIMO and Millimeter Wave MIMO Technologies for 5G Networks” organized by Erode Sengunthar Engineering College, Tamil Nadu.
15. **Broadband Antennas** on 24 July 2020 in One Week Online FDP on “Recent Advances in Electronics & Communication Engineering” organized by Department of Electronics and Communication Engineering, Santhiram Engineering College (SREC), Nandayal, Kurnool.

### Academic Qualifications

Ph. D.: Studies on Broadband Antennas for UWB and MIMO Applications

M. Tech.: Some Studies on Pyramidal Horn Antenna with metamaterial

B. E.: Design and Study of Frequency Selective Surfaces (FSS)

Degree	Year	Institute/School	CGPA
Ph. D. (Microwave Engg.)	Dec. 29, 2018	Indian Institute of Technology (Banaras Hindu University), Varanasi, Uttar Pradesh <b>Supervisor: Prof. S. P. Singh</b>	7.81
M. Tech. (Microwave Engg.)	Nov. 11, 2011		7.97
B. E. (Electronics and Telecommunication Engg.)	Jun. 06, 2008	Govt. Engineering College Bilaspur (Guru Ghasidas University), Chhattisgarh	7.06

### Certificate Courses

1. Electrostatic-HC Verma, IIT Kanpur
2. AI-Udemy
3. GPS/GNSS-Udemy

### Teaching Experiences

Presently working as an Assistant Professor (Grade II) at National Institute of Technology Rourkela

Designation	Institute	Duration
Assistant Professor (Grade II)	Department of Electronics and Communication Engineering, <b>NIT Rourkela</b>	since Mar. 2020
Assistant Professor (Grade II)	Department of Electronics and Communication Engineering, <b>IIITDM Kurnool</b>	Mar. 2019 to Feb. 2020
Assistant Professor (on contract)	Department of Electronics and Communication Engineering, <b>IIT Bhopal</b>	Jul. 2018 to Feb. 2019
Temporary faculty	Department of Electronics and Telecommunication Engineering, <b>NIT Raipur</b>	Sep. 2017 to May 2018
Guest faculty	Department of Electronics and Communication Engineering, <b>MNNIT Allahabad</b>	Jan. to Aug. 2017

## Courses Taught

<b>Theory Courses</b>	<b>Laboratory Courses</b>
<ul style="list-style-type: none"><li>• Analog Communication</li><li>• Radar Engineering</li><li>• Wireless Communication</li><li>• Electronic Devices and Circuits</li><li>• Basic Electrical and Electronics Engineering</li><li>• Digital and Analog Circuit Design</li><li>• Satellite Communication</li></ul>	<ul style="list-style-type: none"><li>• Analog Communication</li><li>• Digital Communication</li><li>• Digital Logic Design</li><li>• Basic Electronics</li><li>• Antenna Design and Simulation</li></ul>

## Research Project Guidance

- Ph. D. (Ongoing-03)
- M. Tech. (Completed-07, Ongoing-01)
- B. Tech. (Completed-08, Ongoing-01)

## Administrative Responsibilities

- **PIC, Lawn and Garden**, Department of ECE at NIT Rourkela, 2022, 2023.
- **Member, Website committee**, Department of ECE at NIT Rourkela, 2022, 2023.
- **Faculty Advisor of M. Tech. Microwave and Radar**, Department of ECE at NIT Rourkela, 2022.
- **Executive Committee Member**, Technology Club, NIT Rourkela, 2022.
- **Professor-in-charge**, Microwave Engineering Laboratory, Department of ECE at NIT Rourkela, 2021.
- **Faculty-in-charge**, Girls Hostel at IIITDM Kurnool in 2019.
- **Chairman** Internal Complaint Committee (under sexual harassment of women at workplace), IIITDM Kurnool in 2019.

## Professional Membership

- IEEE
- IEEE Antennas and Propagation Society
- IEEE Women in Engineering
- IEEE Council on RFID
- IEEE Sensor Council

## Reviewer of Referred Journals

- IET Journal of Microwave, Antennas and Propagation
- Microwave Optical Technology Letter, Wiley
- International Journal of RF and Microwave Computer-Aided Engineering, Wiley
- Journal of Electronics Materials, Springer

## Co-Curricular/Outreach Activities

- Examined Ph. D. Thesis from Visvesvaraya Technological University, Belagavi, Date: 07 November 2023
- **Faculty Coordinator** from NIT Rourkela in **Ek Bharat Shreshtha Bharat (EBSB) Program** of Govt. of India, 2023.
- **Panellist** for panel discussion in IEEE Young Professional session at IEEE Microwave, Antennas and Propagations Conference (MAPCON) 2022.
- **Session Chair** in IEEE Wireless, Antenna and Microwave Symposium (WAMS) 2022.
- **Faculty Coordinator** from IIITDM Kurnool in **Ek Bharat Shreshtha Bharat (EBSB) Program** of Govt. of India, 2019.
- **Training and Placement Representative** of Ph.D. scholars in **IIT(BHU), Varanasi** from May to December, 2015.
- **Cultural Representative** from the Ph.D. scholars of the **Electronics Engineering Society IIT(BHU)**, Varanasi for the session 2013-2014.
- **Ph.D. Representative** from the Dept. of Electronics Engineering of the **Student Council of BHU, Varanasi** for the session 2011-2012.
- **Volunteer** at the **Art of Living** since 2010.

**Workshops/Conferences/Symposium attended and volunteered**

S. No.	Title	Date and Duration	Organized by
1	Youth Empowerment and Skills Workshop	08-11 April 2010	Art of Living
2	National Conference on Samaj Nirman avam Nari Shakti	17-18 Dec. 2011	World Women's Awakening Organization
3	Workshop on Recent Advances in Microwave Engineering: Devices, Technologies and Applications	20-21 Jan. 2012	Dept. of Electronics Engg. IT-BHU, Varanasi
4	LATEX Training Programme	27 Feb.-03 Mar. 2012	DST Centre for Interdisciplinary Mathematics Sciences (BHU), Varanasi
5	Yogathon (salutation to good health)	07 Apr. 2012	Vyakti Vikas Kendra, India
6	Garuda Boot Camp on National computational Grid (GBC-2013)	06-07 Mar. 2013	IIT(BHU), Varanasi
7	8 <sup>th</sup> All India Students' Conference in Science and Spiritual Quest (AISSQ-2014)	01-02 Feb. 2014	Bhaktivedanta Institute, Kolkata and IIT(BHU), Varanasi
8	Author Workshop	10 Feb. 2014	Springer and IIT(BHU), Varanasi
9	National Symposium on Research Methodology for Future researcher	22 Mar. 2015	IIT(BHU), Varanasi
10	Institute Day ( <b>participated and volunteer</b> )	26-27 Feb. 2015	Dept. of Electronics Engg. IIT-BHU, Varanasi
11	Institute Day ( <b>participated</b> )	02-03 Apr. 2016	Dept. of Electronics Engg. IIT-BHU, Varanasi
12	Workshop on Electromagnetic Antenna Design (WEAD-2016), ( <b>volunteer</b> )	09-10 Apr. 2016	Dept. of Electronics Engg. IIT-BHU, Varanasi
13	Asia Pacific Microwave Conference (APMC-2016) and International Microwave and RF Conference (IMaRC- 2016), ( <b>attended and volunteer</b> )	05-09 Dec. 2016	Supported by the IEEE MTT Society
14	QIP Short Term Course on Design of Microwave Antennas and Passive Components ( <b>attended and volunteer</b> )	19-24 Dec. 2016	Dept. of Electronics Engg. IIT-BHU, Varanasi
15	Outcome Based Education (OBE)	06-11 May 2019	IIITDM, Kurnool in association with E&ICT Academy NIT Warangal
16	FDP on Design, Develop and Deliver MOOC courses through SWAYAM platform	01-06 Jul. 2019	NEIPA Delhi
17	AICTE Training And Learning (ATAL) program on Data Sciences	21-25 Nov. 2019	IIITDM, Kurnool
18	AICTE Training And Learning (ATAL) program on Artificial Intelligence	28 Nov. -02 Dec. 2019	IIITDM, Kurnool
19	AICTE Training And Learning (ATAL) Academy Online FDP on Artificial Intelligence	22-26 May 2020	NIT Warangal
20	SERB Women Conclave	06-07 September 2022	IIT Guwahati
21	Indo-US VAJRA Course on "Fundamentals of Electromagnetics" (EMF-2023)	12-16 June 2023	NIT Silchar