

Faculty Profile

1. Name: Dr. Prashant Kumar Singh, Assistant Professor
2. Department: Electronics & Communication Engineering
3. Email Id: prashant.ece@bitsindri.ac.in / prashant10mar@gmail.com
4. Phone Number: +91-7461901258
5. Office Address: Electronics & Communication Engineering Dept.



B.I.T. Sindri

Dhanbad – 828123

Jharkhand; India

6. Qualification:

Sl. No.	Degree (UG, PG, PhD)	Specialization	Institute	Year
1.	Ph.D.	Electronics & Communication Engineering Dept.	BIT Mesra, Ranchi	2018
2.	M.E.	Wireless Communication (Electronics & Communication Engineering Dept.)	BIT Mesra, Ranchi	2012
3.	B.Tech.	Electronics & Telecommunication Engineering	COER, Roorkee	2007

7. Area of Specialization: Microwave Engineering
8. Ph.D. Guided: NIL

9. Subjects Taught:

(I)UG:

1. Electromagnetic Field Theory
2. Microwave Engineering
3. Basic Electronics
4. Digital Electronics

(II)PG:

1. Wireless Communication

10. Professional Experience:

I) Teaching Experience:

Sl. No.	Position held	Name of Organization	from	to
1	Assistant Professor	BIT, Sindri	30.12.2022	Till date
2	Associate Professor	UCET, Hazaribagh	01.08.2019	14.07.2022
3	Assistant Professor	NIST, Berhampur, Odisha	30.01.2017	30.07.2019
4	Assistant Professor	RTCIT, Anandi, Ormanjhi, Ranchi	20.10.2008	24.01.2017

II) Research Experience:

Sl. No.	Position held	Name of Organization	from	to
1	Assistant Director	State Forensic Science Laboratory (SFSL), Hotwar, Ranchi	15.07.2022	29.12.2022

III) Industrial Experience:

Sl. No.	Position held	Name of Organization	from	to

11. Publications:

I) International Journal:

Sl. No.	Title of the Paper	Name of the Journal in which publication has been made	Vol./No.	Publication Year	Pages
1.	Ultra-Compact LPF with Wide Stop-Band	Microwave Review	Vol. 23, No. 1	2017	35-39
2.	Design of switchable microstrip low pass – band stop – band pass filter	Microwave and Optical Technology Letters	Vol. 59, Issue 2	2017	257-260
3.	Ultra-compact switchable microstrip bandpass – lowpass filter with improved characteristics	Microwave and Optical Technology Letters	Vol. 59, Issue 1	2017	197-201
4.	Design of Radial Microstrip Band Pass Filter with Wide Stop-Band Characteristics for GPS Application	Progress in Electromagnetics Research C	Vol. 59	2015	127-134

5.	Novel Compact Dual Bandstop Filter Using Radial Stub	Microwave Review	Vol. 21, No. 1	2015	17-22
----	--	------------------	----------------	------	-------

II) International Conference:

Sl. No.	Title of the Paper	Name of the Conference in which publication has been made	Vol./No.	Publication Year	Pages
1.	Design of Novel Radial Folded Microstrip Patch Antenna for WiMAX Application	International Conference on Computational Techniques and Applications (ICCTA 2021) At: Kolkata, India	Vol. 426	2022	301–308
2.	Dual-Band Stop Filter with Controllable Stop-Bands Based on Defect in Shunt Radial Stub	International Conference on Computational Techniques and Applications (ICCTA 2021) At: Kolkata, India	Vol. 426	2022	165–175
3.	RF Front-End Band-Pass Filters for GPS Receiver	Fourth International Conference on Microelectronics, Computing and Communication Systems MCCS 2019 At: Ranchi, India	Vol. 673	2020	697–707
4.	Microstrip Low-Pass Filter Using	2015 IEEE Applied Electromagnetics Conference (AEMC)		2015	1-2

	Modified Log Periodic Radial Stub	At: IIT Guwahati, India			
5.	Design and Development of Radial Stub Low- Pass Filter with Improved Characteristics	10 th International Conference on Microwaves, Antenna, Propagation & Remote Sensing (ICMARS-2014) At: Jodhpur, India		2014	13-16

III) National Journal:

Sl. No.	Title of the Paper	Name of the Journal in which publication has been made	Vol./ No.	Publication Year	Pages

IV) National Conference:

Sl. No.	Title of the Paper	Name of the Conference in which publication has been made	Vol./ No.	Publication Year	Pages

V) Book Chapter:

Sl. No.	Title of the Chapter	Name of the Book in which publication has been made	ISBN	Publication Year	Pages
1.	Thin-Film Photovoltaic Devices with Asymmetric	In book: Low- Dimensional Nanoelectronic Devices Publisher: Apple Academic Press	eBook ISBN 9781003277378	August 2022	

	Heterocontact Geometries				
2.	Charge Storage Mechanism in Proteotronic Capacitors	In book: Low-Dimensional Nanoelectronic Devices Publisher: Apple Academic Press	eBook ISBN 9781003277378	August 2022	
3.	A Survey on Antennas for IIoT Application	In book: Industrial Internet of Things Technologies and Research Directions Publisher: CRC Press	eBook ISBN 9781003145004	February 2022	273-284
4.	Design and Simulation of Microstrip Antenna for Terahertz Applications	In book: Generation, Detection and Processing of Terahertz Signals Publisher: Springer, Singapore	Online ISBN 978-981-16-4947-9	January 2022	263–283
5.	High-Sensitive Terahertz Biosensors	In book: Advanced Materials for Future Terahertz Devices, Circuits and Systems Publisher: Springer, Singapore	Online ISBN 978-981-33-4489-1	February 2021	289–314
6.	Terahertz Antennas for Future Communications	In book: Advanced Materials for Future Terahertz Devices, Circuits and Systems Publisher: Springer, Singapore	Online ISBN 978-981-33-4489-1	February 2021	315–330
7.	Possibilities of 5G and its Application in	In book: INTERNATIONAL SYMPOSIUM ON 5G	e-ISBN: 9788770222174	Aug. 2020	268-274

	Rural India: A Short Survey	& BEYOND FOR RURAL UPLIFTMENT Publisher: River Publishers			
--	-----------------------------	--	--	--	--

12. Patents (Filed/Granted)

Sl. No.	Name of the Inventor	Title of the Invention	Application/ Patent No. (As applicable)	Year	Status (Filed / Granted)
1.	S. MALLIK, R. ROY, G. AHMAD, A. RAJA, S. H. RAHEMAN, A. DASH, P. PANIGRAHI, P. K. SINGH, S. GUHATHAKUR ATA, N. B. MANIK, P. DAS, S. S. MAHATO	AN AUTOMATED PROBING SYSTEM FOR MESURING ELECTRICAL CHARACTERISTICS OF ON-WAFER DEVICES AND A METHOD THEROF	Indian Patent application no. 202031041107A	2020	Publication Date: 16.10.2020

13. Conference/ Workshop/Seminar/ Organized

Sl. No.	Title of Seminar / Conferences / Short – term Courses	Funding / Sponsoring Agency	Date of Seminar / Conferences / Short – term Courses
1.	International Conference on Computational Techniques and Applications (Virtual Mode) At: Kolkata, India		09.10.2021 – 10.10.2021

2.	Two-week Virtual Short term course on “Research Trends in Electronics and Communication Engineering-2021” At: UCET, Hazaribag	TEQIP-III	08.02.2021 – 19.02.2021
3.	Two-days webinar on “Image Processing using MATLAB” At: UCET, Hazaribag	TEQIP-III	11.12.2020 – 12 .12.2020
4.	One week workshop on “Research Trends in Microwave Devices and Antennas (RTMDA-2020)” At: UCET, Hazaribag	TEQIP-III	10.02.2020 – 14.02.2020
5.	5th National Conference on Devices and Circuits (NCDC2019) At: NIST, Berhampur, Odisha	IEEE-NIST Student Chapter (STB-63521)	02.03.2019
6.	9th IEEE ED Mini-Colloquium on Quantum Electronics At: NIST, Berhampur, Odisha	IEEE-NIST Student Chapter (STB-63521)	01.03.2019
7.	Basics of Antenna (Technical Talk) At: RTCIT, Ranchi	RTCIT, Ranchi	10.12.2016
8.	158 th Birth Anniversary of Sir J. C. Bose At: RTCIT, Ranchi	RTCIT, Ranchi	30.11.2016
9.	Reflection on the Self (Motivational Talk), At: RTCIT, Ranchi	RTCIT, Ranchi	19.11.2016

14. Symposium/ Workshop/Seminar/ Attended

Sl. No.	Title of Seminar / Conferences / Short – term Courses	Date	Organizing Institute
1.	Training on “Forensic Engineering & Instrumentation”	1 st – 12 th Aug. 2022	Central Forensic Science Laboratory, Kamrup, Assam

2.	Professional Development Training Programme (Virtual Mode) for TEQIP Institutions	23 rd – 27 th Nov. 2020	IIM, Kozhikode
3.	One Week FDP on “VLSI Chip Design Kands-on using open source EDA”	16 th – 20 th Dec. 2019	Electronics & ICT Academy
4.	AICTE Sponsored QIP- Short Course on “Microwave/Millimeter Wave Devices and their Applications”	23 rd – 28 th Sep. 2019	IIT (BHU), Varanasi
5.	TEQIP-III sponsored Workshop on “Machine Learning and Data Science”	20 th – 24 th Aug. 2019	UCET, Hazaribag
6.	One Week FDP on “VLSI Chip Design Hands-on using open source EDA”	8 th – 12 th Jul. 2019	Electronics & ICT Academy
7.	One Week FDP on “Antenna Trends”	1 st – 5 th Jul. 2019	Electronics & ICT Academy
8.	One Week FDP on “Advancements in Signal Processing & Optimization Techniques”	3 rd – 7 th Jun. 2019	Electronics & ICT Academy
9.	One Week FDP on “DSP & Sensors”	10 th – 14 th Dec. 2018	Electronics & ICT Academy
10.	National Workshop on MATLAB	4 th – 9 th Dec. 2017	NIST, Berhampur
11.	ISTE STTP on CMOS Mixed-Signal and Radio Frequency VLSI Design	30 th – 4 th Feb. 2017	IIT-Kharagpur
12.	1 st Refresher Programme in “Recent Trends on Microwave Tevices and Antennas”	26 th – 15 th Jan. 2017	IIT (ISM), Dhanbad
13.	QIP Short Term Course on “Design of Microwave Antennas and Passive Components”	19 th – 24 th Dec. 2016	IIT (BHU), Varanasi

14.	Workshop on “EM Simulations and Design using FEKO tool	10 th – 11 th May 2013	BIT Mesra, Ranchi
-----	--	--	-------------------

15. Administrative Position Held:

Sl. No.	Position held	Name of Organization	from	to
1.	Assistant Director	State Forensic Science Laboratory (SFSL), Ranchi	15 th Jul. 2022	29 th Dec.2022
2.	Admission In-charge	UCET, Hazaribag	14 th Oct. 2020	14 th Jul. 2022
3.	B.Tech. Technical Seminar Coordinator	NIST, Berhampur	02 nd Jul. 2018	26 th Jul. 2022
4.	Head of the Department	RTCIT, Anandi, Ormanjhi, Ranchi	1 st Aug. 2015	31 st Jan. 2016
5.	Head of the Department	RTCIT, Anandi, Ormanjhi, Ranchi	1 st Aug. 2016	24 th Jan. 2017

16. Award / Recognition Bestowed on Faculty (State / National / International)

- Keynote Speaker of A Seminar on “Importance of Mathematics in Technical Education and Research” on 22nd Dec. 2022 at Government Polytechnic Jagannathpur, Jharkhand
- Invited lecture (Virtual Mode) on “RF/Microwave Sensor Technology” (BPUT-Faculty Development and Training (BPUT-NCFDT) Nodal Centre: National Institute of Science and Technology, Berhampur, Odisha) on 25th May, 2022
- Invited Talk on “Microwave Devices for Sensing Application” during Five Days AICTE training and Learning (ATAL) sponsored Faculty Development Progrmme on “Soft Computing and its Application in Electromagnetics (SCAE-2021)” dated 23rd - 27th Nov., 2021 at IIIT, Ranchi
- 2nd Topper in 12 Week NPTEL MOOC course on Electromagnetic Theory (July – October, 2021) with Elite + Gold Certificate (AICTE approved FDP)

- 2nd Topper in 12 Week NPTEL MOOC course on Advanced Microwave Guided-Structures and Analysis (July – October, 2021) with Elite + Gold Certificate (AICTE approved FDP)
- Talk on “Transmission Line Theory and its Applications” on 13th Feb, 2020 at during TEQIP-III sponsored Workshop on “Research Trends in Microwave Design and Antennas (RTMDA)” at UCET, Hazaribag during 10th – 14th Feb. 2020
- Session Chair in 5th National Conference on Devices and Circuits (NCDC2019) at NIST, Berhampur, Odisha
- Qualified in Graduate Aptitude Test in Engineering (GATE) – 2010

REVIEWER:

- International Journal of RF and Microwave Computer-Aided Engineering (IJRFMCAE)
- Progress in Electromagnetic Research (PIER)
- Electronics and Telecommunications Research Institute (ETRI)
- Computer Syses Science and Engineering (CSSE)

17. Members of Professional Bodies: