



# Dr. Prateek Raj Gautam

Ph.D., Electronics and Communication Engineering,  
Motilal Nehru National Institute of Technology Allahabad

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## WORK EXPERIENCE

**Assistant Professor – Senior Scale**, School of Computer Science February 2024 – **Present**  
UPES Dehradun, Uttarakhand.  
**Assistant Professor**, Computer Science & Engineering August 2022 – February 2024  
Centre for Advanced Studies, AKTU, Lucknow, UP.  
**Assistant Professor**, Electronics & Communication Engineering July 2013 – December 2015  
Allehnouse Institute of Technology, Kanpur, UP.  
**Assistant Professor**, Electronics & Communication Engineering June 2012 – July 2013  
Naraina College of Engineering and Technology, Kanpur, UP.

## EDUCATION

**Ph. D.** 2016–2021  
Electronic & Communication Engineering (Wireless Sensor Networks), **Motilal Nehru National Institute of Technology Allahabad, Prayagraj (UP), India**. Thesis Title: “Energy Efficient 2D and 3D Localization in Wireless Sensor Networks using Single Anchor Node”.  
**M. Tech.** 2009–2011  
Electronic & Communication Engineering, **Harcourt Butler Technological Institute (HBTI) Kanpur (UP), India**, with an aggregate of 67.55%. Thesis Title: “Generalized One Dimensional Optical Orthogonal Coding Scheme for CDMA Systems with its Grouping and Performance Analysis”.  
**B. Tech.** 2004–2008  
Electronics & Communication Engineering, **University Institute of Engineering and Technology (UIET), CSJMU Kanpur (UP), India**, with an aggregate of 62.00%.

## RESEARCH INTERESTS & COURSES DELIVERED

Wireless Sensor Networks (WSNs) / Internet of Things (IoTs), Energy efficient WSN Localization, Wireless Communication, CDMA, IDMA, Brain Wave Mapping. Machine Learning AI/ML & Computer Vision  
**Post Grad. (M.Tech.):** Machine Learning, Computer Vision, Reinforcement Learning, Internet of Things, Data Communication Networks, Research Methodology, Concepts of Electrical & Electronics Engineering  
**Under Grad. (B.Tech.):** Digital Electronics, Microporcessors, EMFT, Digital Communication, Measurements, Analog Integrated Circuits.

## COMPUTER SKILLS

• **MATLAB** (previous collaborations: [github.com/mgeekmatlab](https://github.com/mgeekmatlab)), • **LabVIEW**, • **LTspice**, • **Embedded/IoT** design and programming **Arduino IDE/PlatformIO**, • **CST Studio**, • **KiCAD**, • **LaTeX** (pgfplots/tikz/beamer), • **Gnuplot**, • **Word/Excel**, **LibreOffice**,  
• **Photoshop/Corel Draw/Inkscape/GIMP**, • **Blender**,  
• **Github**, • **Web design: HTML, CSS, Javascript**, Github pages, Jekyll, hosting and server management, **WordPress, Django** (Designed and hosted conference (vcas2018) website at MNNIT ECED, online at [mnnit.ac.in/vcas2018](http://mnnit.ac.in/vcas2018)),  
• **Python** (tkinter/kivy/eel) (Designed GUI based hotspot software online at [fwh.mgeek.in](http://fwh.mgeek.in)), (Form filler software online at [formhelper.mgeek.in](http://formhelper.mgeek.in)). • Designed **GeneratorJS** library in JavaScript and **PyGenerator** module in python for website templating and front-end design available online at [generatorjs.mgeek.in](http://generatorjs.mgeek.in). • **Docker**, **Proxmox**. • **Linux**, bash, Nix and NixOS.

## PUBLICATIONS JOURNAL(J) CONFERENCE(C)

[J1] J1 issn 1551-3203 Impact Factor: 12.3 SCIE, Q1  
[J2] J2 issn 1751-8628 Impact Factor: 1.6 SCIE, Q2  
[J3] J3 issn 1530-437X Impact Factor: 4.3 SCIE, Q1  
[J4] J4 issn 1936-6450 Impact Factor: 4.2 SCIE, Q2  
[J5] J5 issn 1572-9451 Impact Factor: 2.5 SCIE, Q2  
[J6] J6 issn 0929-6212 Impact Factor: 2.2 SCIE, Q2

[J7]	J7 issn 0929-6212 Impact Factor: 2.2	SCIE, Q2
[J8]	J8 issn 0929-6212 Impact Factor: 2.2	SCIE, Q2
[J9]	J9 issn 0929-6212 Impact Factor: 2.2	SCIE, Q2
[J10]	J10 issn 1572-834X Impact Factor: 2.2	SCIE, Q2
[J11]	J11 issn 0976-4348 Impact Factor: 2	SCIE, Q3
[J12]	J12 issn 2475-1472 Impact Factor: 2.8	SCIE, Q2
[J13]	J13 issn 0920-8542 Impact Factor: 3.3	SCIE, Q2
[J14]	J14 issn 1572-834X Impact Factor: 2.2	SCIE, Q2 noofauthors
[J15]	S1 issn 1693-6930	Scopus
[J16]	S2 issn 1693-6930	Scopus
[J17]	S3 issn 0975-4024	Scopus 2017
[J18]	S4 issn 0974-9322	Scopus
[C1]	C1 isbn: 9781728134550 issn 2687-7767	Scopus
[C2]	C2 isbn: 9813297743 issn 1876-1100	Book chapter
[C3]	C3 isbn: 978-981-15-6839-8 issn 1876-1100	Book chapter
[C4]	C4 isbn: 9811326843 issn 1876-1119	Book chapter
[C5]	C5 isbn: 978-1-5386-5002-8 issn 2687-7759	Scopus
[C6]	C6 isbn: 978-1-7281-3455-0 issn 2687-7767	Scopus
[C7]	C7 isbn: 9813297743 issn 1876-1100	Book chapter
[C8]	C8 isbn: 9781665435642 issn 0	Scopus
[C9]	C9 isbn: 9781119896951 issn	Book chapter
[C10]	C10 isbn: 9798350330861 issn	scopus
[C11]	C11 isbn: 9798350330861 issn	scopus
[C12]	C12 isbn: 9798350370249 issn	scopus
[C13]	C13 isbn: 9798350364088 issn	scopus
[C14]	C14 isbn: 9781032911571 issn	scopus
[C15]	C15 isbn: 9781032911571 issn	scopus
[C16]	C16 isbn: 9781032911571 issn	scopus
[C17]	C17 isbn: 9781032911571 issn	scopus

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PAPER  
PRESENTED

“Localization of Sensor Nodes in WSNs using Three Dimensional Angle of Arrival de-  
tection at BS” In *1st International Conference on VLSI, Communication and Signal Processing*  
(VCAS 2018) at MNNIT Allahabad (UP) India. 29th November to 1st December 2018

“Sensor Localization in WSNs Using Rotating Directional - Antenna at the Base Sta-  
tion.” In *2nd International Conference on VLSI, Communication and Signal Processing (VCAS*  
2019) at MNNIT Allahabad (UP) India. 21st – 23rd October 2019

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JOURNAL  
REVIEWER AND  
EDITOR

• IEEE Transactions on Industrial Informatics WOS (3), • IET Communications WOS (6),  
• International Journal of Distributed Sensor Networks WOS (1), • Asian Journal of Cardiology  
Research (1), • SN Applied Sciences WOS (1), • Telecommunication Systems (3), • Journal of Optical  
Communications (1), • Optica Applicata (1), • International Journal of Procurement Management  
(1), and • AE IJSAEM (8).

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## WORKSHOPS /FDP

1. One-week GIAN workshop “Advances in Nanotechnology and its Application in Future Electronics (ANFE-2017)” held at MNNIT Allahabad.  
– Participated and volunteered 6th – 10th November, 2017
2. Ten days GIAN workshop on “Internet of Things in Smart Living & Cyber-Physical-Social Systems” held at IIT Kanpur.  
– Participated and volunteered. 8th – 17th January 2018
3. Summer training program on “VLSI Design & Embedded System (VDES-2018)” held at MNNIT Allahabad.  
– Volunteered. 13th June – 12th July, 2018
4. ATAL Academy FDP on “Blockchain” held at MNNIT Allahabad.  
– Participated. 16th – 20th September 2019
5. ATAL Academy FDP on “Artificial Intelligence” held at MNNIT Allahabad.  
– Participated. 10th – 14th December 2019
6. One-week short term course on “Computational Physics” held at MNNIT Allahabad.  
– Participated. 1st – 5th March 2021
7. One-week FDP on “IPR Awareness and Patent Prosecution” held at MNNIT Allahabad.  
– Participated. 13th – 17th July 2021
8. One-week FDP on “Antenna Design and Microwave Applications” held at HBTU Kanpur.  
– Participated. 23th – 27th July 2021

## WORKSHOPS FACILITATED

Manuscript preparation in LaTeX,  
Programming with 8051 micro-controller.

## AWARDS AND OTHER ACHIEVEMENTS

1. Awarded national scholarship “RG-NFSC” from UGC. 2017-2021
2. Offered national scholarship “MANF” from UGC based on NET score 2020
3. Eight times GATE qualified. 2008, 2009, 2012, 2013, 2014, 2016, 2017, and 2020
4. Three times UGC NET (Electronics Science) qualified. Jul-2016, Jan-2017, and Dec-2019
5. Member of IEEE, IEEE Industrial Electronics Society, IEEE Microwave Theory and Techniques Society, and IEEE Broadcast Technology Society.
6. NPTEL Online Certification on MATLAB for Numerical Computations.

## REFERENCES

1. Dr. Arvind Kumar *Associate Professor*, ECED, MNNIT Allahabad, Teliyarganj, Prayagraj, UP 211004, E.Mail: [arvindk@mnnit.ac.in](mailto:arvindk@mnnit.ac.in) Mob:7081869266, – *Ph.D. Thesis Supervisor*
2. Dr. Arun Prakash *Associate Professor*, ECED, MNNIT Allahabad, Teliyarganj, Prayagraj, UP 211004, E.Mail: [arun@mnnit.ac.in](mailto:arun@mnnit.ac.in) Mob:9794008282.
3. Dr. Basant Kumar *Associate Professor*, ECED, MNNIT Allahabad, Teliyarganj, Prayagraj, UP 211004, E.Mail: [singhbasant@mnnit.ac.in](mailto:singhbasant@mnnit.ac.in) Tel: +91-0532-2271468.
4. Dr. Vijay Shankar Tripathi *Professor*, ECED, MNNIT Allahabad, Teliyarganj, Prayagraj, UP 211004, E.Mail: [vst@mnnit.ac.in](mailto:vst@mnnit.ac.in) Mob:8004818000.
5. Dr. Ram Chandra Singh Chauhan *Associate Professor*, ECED, IET, Sitapur Road, Lucknow UP, E.Mail: [ram1.hbti@gmail.com](mailto:ram1.hbti@gmail.com) Mob:9336050184. – *M.Tech. Dissertation Supervisor*

## PERSONAL PROFILE

Name: Dr. Prateek Raj Gautam  
 DOB: 17 June 1987  
 Email: [dr.prateekrajgautam@gmail.com](mailto:dr.prateekrajgautam@gmail.com), [prateek@mgeek.in](mailto:prateek@mgeek.in)  
 Mobile: +91- 7376 566 322  
 Address: E 5409 Avas Vikas 1, Kalyanpur, Kanpur, UP - 208017, India  
 Father's name: Mr. Shriram Gautam  
 Mother's name: Mrs. Archana Gautam

## DECLARATION

*I hereby declare that the above information given is true to the best of my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.*

*Heather Bay Zantem*

January 2, 2025

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