



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%.

12 (AISSCE) 2004
Mathematics, Biology, Physics, Chemistry, and English; **Kendriya Vidyalaya, IIT Kanpur (CBSE)**, with an aggregate of 58.40%.

10 (AISSE) 2002
Mathematics, Science, Social Studies, Hindi, and English; **Kendriya Vidyalaya, IIT Kanpur (CBSE)**, with an aggregate of 67.40%.

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), • **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),
- **Python** (tkinter/kivy/eel) (Designed GUI based hotspot software online at fwh.mgeek.in), (Form filler software online at 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. • **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

PAPER PRESENTED

“Localization of Sensor Nodes in WSNs using Three Dimensional Angle of Arrival detection 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 Station.” In *2nd International Conference on VLSI, Communication and Signal Processing (VCAS 2019)* at MNNIT Allahabad (UP) India. *21st – 23rd October 2019*

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).

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	<ol style="list-style-type: none"> 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. <i>2008, 2009, 2012, 2013, 2014, 2016, 2017, and 2020</i> 4. Three times UGC NET (Electronics Science) qualified. <i>Jul-2016, Jan-2017, and Dec-2019</i> 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	<ol style="list-style-type: none"> 1. Dr. Arvind Kumar <i>Associate Professor</i>, ECED, MNNIT Allahabad, Teliyarganj, Prayagraj, UP 211004, E.Mail: arvindk@mnnit.ac.in Mob:7081869266, – <i>Ph.D. Thesis Supervisor</i> 2. Dr. Arun Prakash <i>Associate Professor</i>, ECED, MNNIT Allahabad, Teliyarganj, Prayagraj, UP 211004, E.Mail: arun@mnnit.ac.in Mob:9794008282. 3. Dr. Basant Kumar <i>Associate Professor</i>, ECED, MNNIT Allahabad, Teliyarganj, Prayagraj, UP 211004, E.Mail: singhbasant@mnnit.ac.in Tel: +91-0532-2271468. 4. Dr. Vijay Shankar Tripathi <i>Professor</i>, ECED, MNNIT Allahabad, Teliyarganj, Prayagraj, UP 211004, E.Mail: vst@mnnit.ac.in Mob:8004818000. 5. Dr. Ram Chandra Singh Chauhan <i>Associate Professor</i>, ECED, IET, Sitapur Road, Lucknow UP, E.Mail: ram1.hbti@gmail.com Mob:9336050184. – <i>M.Tech. Dissertation Supervisor</i>
PERSONAL PROFILE	Name: Dr. Prateek Raj Gautam DOB: 17 June 1987 Email: dr.prateekrajgautam@gmail.com , prateek@mgeek.in Mobile: +91- 9151 404 899 Address: E 5409 Avas Vikas 1, Kalyanpur, Kanpur, UP - 208017, India Father’s name: Mr. Shriram Gautam Mother’s name: Mrs. Archana Gautam
DECLARATION	<p>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.</p> <p style="text-align: center;"></p> <p style="text-align: center;">January 2, 2025</p>