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

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 Dimentional 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)

[*J***1**]	**J1** issn 1551-3203 **Impact Factor: 12.3**	**SCIE, Q1**
[*J***2**]	**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**

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	
	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 **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 **Mob:***9794008282.*
	3. **Dr. Basant Kumar** *Associate Professor*, **ECED, MNNIT Allahabad, Teliyarganj, Prayagraj, UP 211004, E.Mail:** 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 **Mob:***8004818000.*
	5. **Dr. Ram Chandra Singh Chauhan** *Associate Professor*, **ECED, IET, Sitapur Road, Lucknow UP, E.Mail:** 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, 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.*

January 2, 2025