



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, Microprocessors, 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, Git, DevOps, CICD**, 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.

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: singhasant@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*

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.

Signature of zantam

March 22, 2025