Name: Dr. PRADEEP KUMAR
Designation: Assistant Professor
Department: Electronics and Communication Engineering
Mail ID: pradeepkumar@vnrvjiet.in
Experience (inyears): 8   Teaching: 7   Research: 1 Others (if any, specify):

1. Educational / Technicalqualifications:

S.No.	Level (UG / PG)	Year of passing	Specialization
1	Ph. D (NIT Patna)	2022	ECE
2	M. Tech (NIT Patna)	2016	Advanced Communication Systems
3	B. Tech (GBTU Lucknow)	2012	ECE
4	Intermediate (UP Board)	2007	PCM
5	High School (UP Board)	2005	Science

2. Teaching andLearning:

2.1. Teaching Interests: Network Theory, Deep Learning, Digital Signal Processing, Digital Electronics, Signals and Systems, Control System, Analog and Digital Communication, Electromagnetic Field Theory and Transmission Lines, Wireless Communication, Software Defined Radio, Wireless Sensor Network.

2.2. Novel Teaching & Learning Techniques adopted: WIT &WILL, Chalk and Talk , Project Based Learning, PPT, Blooms Taxonomy and POGIL

2.3. Involvement in curriculum updating / Design: Updated Lab manuals.

3. Co-curricular and Extra-CurricularActivities

3.1. Interests and Hobbies: Reading Technical Papers, Playing Kabaddi

3.2.CCA/ECA Organized: Conducted Project Review for B. Tech final years student, Conducted Project Work Review,

3.3.CCA/ECAparticipated:

1. got 2nd prize in Poster Display event held at Meerut Institute of Technology.

2. got 1st prize in Major Project event held at Meerut Institute ofTechnology.

3. got selected for the final round of FOX HUNT event in TECHNOZION-2014 held at NIT Warangal.

4. Event Organizer of Annual day Celebration and other Technical events in school and college.

5. Lifetime member of International Association of Engineers (IAENG)

6. Convergence 2K19-Hardware Hackathon

7. Lifetime member of the Indian Society for Technical Education (ISTE)

8. Received Best Paper Presentation Award in International Conference

3.4. Counseling and Mentoring Activity: Conducted extra class for weak student, Mentoring I, II, III and IV B. Tech students.

3.5. Committees involved in:

Department level: To maintain the publications details of faculty.
ADSP Lab Incharge

Institute Level: Institute level NIRF Publication Coordinator

Conference / Workshop / Seminar / Guest Lectures:

4.1. Conducted: Workshop on PCB Design, Several FDPs in collaboration with E & ICT NIT Patna

4.2. Attended:

1. Workshop on Software defined radio at NITW

2. Workshop on Software defined radio at NITW, Workshop on MATLAB

3. Two-day National seminar on "Recent Trends in Laser Technology Its applications"

4. Academic Contribution and Research &Consultancy:

5.1. Invited Lectures:2

5.2. Articles/Chapters published in Books:2

5.3. Books published as single author or as editor: Nil

5.4. Projects Guided:

a) UG:7

b) PG: 4

5.5. Research Interests: Deep Leaning in Computer Vision, Communications and Signal Processing

5.6.Ph. D students:

a) Enrolled: Nil   b) Submitted: Nil   c) Awarded: Nil

5.7. Papers published in reviewed journals:

S. No	Title of the Paper	Journal Name Vol.No. PP	ISBN/ISSN No.	Impact Factor/ Citation Index	National/ International
1	End-to-end improved convolutional neural network model for breast cancer detection using mammographic data.	The Journal of Defense Modeling and Simulation December 2020. doi:10.1177/1548512920973268	15485129	0.877	International
2	Recasted nonlinear complex diffusion method for removal of Rician noise from breast MRI images	The Journal of Defense Modeling and Simulation. October 2021. doi:10.1177/15485129211052284	15485129	0.877	International
3	A Novel Bi-Modal Extended Huber Loss Function Based Refined Mask RCNN Approach for Automatic Multi instance Detection and Localization of Breast Cancer	Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, May 2022. https://doi.org/10.1177/09544119221095416	09544119	1.617	International
4	A skewness reformed complex diffusion based unsharp masking for the restoration and enhancement of	Biomedical Signal Processing and Control, Volume 73, 2022, 103421, https://doi.org/10.1016/j.bspc.2021.103421.	ISSN 1746-8094,	5.076	International

	Poisson noise corrupted mammograms	(https://www.sciencedirect.com/science/article/pii/S1746809421010181)			

5.8.Papers presented at National / International Conferences:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Better than improved sine power pulse for inter carrier interference reduction in OFDMsystem	ICCSP-2016	ernational (IEEE)	6-8 April 2016
2	Modified improved sine power pulse for inter carrier interference reduction in OFDMsystem	RTEICT -2016	ernational (IEEE)	20-21 May 2016
3	Impact of primary Users Duty Cycle on Optimum Spectrum Sharing in Cognitive Radio Systems	9th International Conference on Computing, Communication and Networking Technologies (ICCCNT), IIScBanglore	International (IEEE)	10-12 July 2018
4	Optimal Bayesian Estimation Framework for Reduction of Speckle Noise from Breast Ultrasound Images	International Conference on Innovation in Cyber Physical Systems (ICICPS-2020) New Delhi, 22-23 October 2020	International	22-23 October 2020
5	Automatic Detection and Localization of Breast Cancer from Mammogram Imaging Modality using Modified Faster RCNN	2023 5th International Conference on Smart Systems and Inventive Technology (ICSSIT), Tirunelveli, India, 2023, pp. 1549-1553, doi: 10.1109/ICSSIT55814.2023.10061000.	International	23-25 January 2023
6	A Technique to Improve the Lifetime of Heterogeneous Wireless Sensor Networks by Removing Redundant Packets	2022 International Conference on Edge Computing and Applications (ICECAA), Tamilnadu, India, 2022, pp. 387-393, doi: 10.1109/ICECAA	International	13-15 October 2022

			55415.2022.9936560		

5.9. Sponsored research Projects: Nil

5.10. Consultancy Projects: Nil

6. Awards / Honors received:

- Secured a score of 686 in GATE 2014
- Reviewer of Internation Journal of Communication Systems
- Reviewer of IET Communications
- Got merit certificate in AICTE sponsored STTP
- Got best paper presentation award in international conference
- Reviewer of JDMS

7. Motto: To be in a leadership position, obtain professional satisfaction and contribute something for thesociety.