

CURRICULUM VITAE

JAYANTA KUMAR BAG

*Assistant Professor, Dept. of ECE, Haldia Institute of Technology
West Bengal*

Residential Address:

C/o- Binod Behari Bag,
Vill-Choukigata, P.O-Jorda,
Dist.-Bankura, West Bengal
Pin-722173

Mobile: 9609359716 / 9064166833

E-mail: jkbag2008@gmail.com

Weblinks: <https://vidwan.inflibnet.ac.in/profile/332440>

<https://orcid.org/0009-0006-1063-771X>



OBJECTIVE: To contribute significantly to teaching, learning, and research activities, both independently and as part of a collaborative academic team, within a reputable institution.

TEACHING EXPERIENCE: Total 14 years as Assistant Professor in Electronics & Communication Engg. (ECE) Dept. in M.A.K.A.U.T affiliated engineering colleges from July, 2011 to till date.

- Presently working in HALDIA INSTITUTE OF TECHNOLOGY (Autonomous under MAKAUT, NAAC, NBA accredited, NIRF ranked), Haldia, West Bengal as Assistant Professor from 10th Aug, 2015 to till date in Electronics & Communication Engineering (ECE) Dept.

Areas of Interest: Wireless Communication, Cognitive Radio Network.

MAJOR ACHIEVEMENTS:

1. Scored 387 in ECE in GATE 2008 (Percentile 92.54, All India Rank 2097).
2. NPTEL certified FDP for 'Introduction to Wireless and Cellular Communication' course in 2021.
3. NPTEL certified FDP for 'Principles of Digital Communications' course in 2022.

ACADEMIC CREDENTIALS:

- i) Pursuing Ph.D. (Engineering) from Department of Instrumentation & Electronics Engineering. under Jadavpur University, Kolkata, West Bengal.
Thesis Title: Relay based Full-Duplex Communication in Cognitive Radio Network.
- ii) PG: M.E. (Electronics & Tele-Communication Engg.) under Jadavpur University (2008-10), Kolkata, West Bengal with 85.89% Marks.
- iii) UG: B. TECH in Electronics & Communication Engg. from Haldia Institute of Technology, Haldia under W.B.U.T, West Bengal (2004-2008) with 7.34 DGPA.
- iv) (10+2): Higher Secondary under W.B.C.H.S.E. from Contai High School in 2003 with 65%.
- v) (10th): Madhyamik. under W.B.B.S.E. from Contai High School in 2001 with 73%.

PREVIOUS WORK EXPERIENCE (2010 to 2015):

Sl.No.	Institute Name with Location	Affiliating University	Designation	Service Period
1	Bankura Unnayani Institute of Engineering, Bankura, West Bengal	MAKAUT	Asst. Professor (ECE Dept.)	21 st July, 2011 to 7 th August, 2015.
2	Cognizant Technology Solutions India Private Limited, Kolkata, West Bengal	Software Company	Program Analyst Trainee (PAT)	26th July 2010 to 8th April 2011

Major Courses Taught:

1. Basic Electronics Engg
2. Solid State Devices.
3. Analog Electronics.
4. Digital Electronics.
5. Signals and Systems.
6. Analog Communication.
7. Digital Communication.
8. Organizational Behavior.
9. Entrepreneurship.

ADDITIONAL RESPONSIBILITIES HANDLED:

- i) Departmental National Social Service (NSS) Coordinator.
- ii) Communication Systems Laboratory in Charge.
- iii) Student Mentoring.

RESEARCH EXPERIENCE:

JOURNALS AND CONFERENCES PUBLICATIONS: Published-12 (SCIE: 2, Scopus: 7)

1. Saradindu Mazumder, Tiyasa Mallick, Ravi Raj, Ritika Rani, Jayanta Kumar Ba., Chanchal Kr. De, "Multi-Relay-Based Cooperative Spectrum Sensing in Cognitive Radio Network" Lecture Notes in Electrical Engineering (LNEE), 2019, DOI: 10.1007/978-981- 15-0829-5_11 [SCOPUS ,UGC CARE]
2. Jayanta Kumar Bag, Samanta, Dipak, Chanchal Kumar De, and Abhijit Chandra "Outage Analysis of Joint Underlay/Overlay CR Network", Lecture Notes in Electrical Engineering, Springer, Singapore, August, 2021. [SCOPUS ,UGC CARE]
3. Dipak Samanta, Jayanta Kumar Bag, Chanchal Kumar De, and Abhijit Chandra. "A smart spectrum utilization approach using multiantenna-based cognitive relays in cognitive radio network." International Journal of Communication Systems 34, no. 1 (2021). [SCIE, SCOPUS, UGC CARE]
4. Dipak Samanta, Jayanta Kumar Bag, Chanchal Kumar De, and Abhijit Chandra "Performance Analysis of Energy Harvesting-Based Relay-Assisted CR Network Under Co-channel Interference Environment", International Conference on communication device and computing (ICCDC2023). [SCOPUS , UGC CARE]
5. Jayanta Kumar Bag, Chanchal Kumar De, and Abhijit Chandra, "Performance Analysis of Underlay Full-Duplex Relay biased Cognitive Radio Network ", 6th Int. Conf. on Energy Systems, Drives and Automations 30th-31st of Dec. 2023, Techno Main, Salt Lake, West Bengal, India. [[SCOPUS ,UGC CARE]
6. Jayanta Kumar Bag, Dipak Samanta, Chanchal Kumar De, and Abhijit Chandra "Outage and Throughput Performance Analysis of Smart UAV-Assisted Full-Duplex NOMA-based Energy Harvesting CR Networks" International Journal of Communication Systems, p.e5698,19 December 2023. [SCIE, SCOPUS, UGC CARE]
7. "Performance Analysis of Adaptive Underlay/Overlay Full-Duplex Cooperative Communication in Cognitive Radio Network" Communicated in 5th IEEE India Council International Subsections Conference (INDISCON 2024), 22-24 August 2024, Punjab Engineering College, Chandigarh, India. [SCOPUS ,[UGC CARE]
8. D. Samanta, J.K. Bag, C. K. De, A. Chandra, "Performance Analysis of Full-Duplex Relay aided Multi-Primary CR Network under Non-linear Energy-Harvesting Environment." IEEE Kolkata, CALCON 2024, December 14-15, 2024, Kolkata, India [SCOPUS , UGC CARE].

OTHER PUBLICATIONS:

1. S. De, S. Acharya, A. Das Adhikary, A. Maiti, U. Singh, S.Ojha, J.K. Bag, I. Samanta, C.K. De "Deployment of Serverless Web Applications Using Cloud Computing Technologies" In International Journal of HIT Transaction on ECCN, Vol. Vol.10 (Special Issue, NSIC2025, pp. 91–95).
2. A. K. Rawani, A. K. Bhowmik, A. Mondal, S.Bhowmik, S. Barik, J.K. Bag, D. Samanta, C.K. De, "Automating AWS

- Infrastructure Deployment Using the CLI in Cloud Computing Technologies” In International Journal of HIT Transaction on Vol.10(Special Issue, NSIC2025), 86-90, ISSN: 0973-6875, 2025.
3. M. Sahay, M. Kumar, Md. S. Ansari, Md. F. Ahmad, O. Singh, S. K. Das, J. K. Bag, “Smart Agriculture System using IoT” In International Journal of HIT Transaction on Vol.10(Special Issue, NSIC2025), 105-109, ISSN: 0973-6875, 2025.
 4. Razia Sultana , Jayanta Kumar Bag , Sayani Ghosh , Tilak Mukherjee , Kushal Roy, “Determination of Linear Far field Pattern in Triangular Index Optical fiber for the Fundamental Transmission Mode”,Vol.7, Issue 6,2020,pp.2847-2852 in Journal of Critical Reviews, ISSN: 2394-5125 [**SCOPUS , UGC CARE**]

NATIONAL SEMINAR:-

1. Participated in ‘National Intellectual Property Awareness Mission-**NIPAM**’ organized by IPO, India in March, 2025.
2. Participated in National Symposium on ‘**IoT and Cloud Computing NSIC 2025**’ organized by HIT in Jan, 2025.
3. Participated in ‘**Sustainable Energy**’ seminar talk organized by HIT in March, 2024
4. Participated in ‘**Renewable Energy Integration in Smart Grid Environment**’ seminar talk organized by HIT in Jan, 2024.
5. Participated in ‘**IPR and Innovations**’ workshop organized by HIT in association with DST in Aug, 2023.
6. Participated in ‘National Intellectual Property Awareness Mission-**NIPAM**’ organized by HIT in association with IPO, India in Dec, 2021.
7. Participated in National Seminar on ‘National Education Policy **NEP 2020**’ in HIT, Haldia in Nov, 2021.

Other Roles:

- Attended Conferences, ICCDC 2017, ICMC 2017.
- Organizing Committee Member for ICCDC 2017, ICCDC 2019, ICCDC 2021, ICCDC 2023 and other major events of the Department.
- Paper presenter in INDISCON-2024, ESDA2023, ICCDC-2019, ICCDC 2023.
- Reviewer for ICACA2024, Wireless Personal communication Journals.

LIST OF FDP/STTP/MOOCs ATTENDED (LAST 5 YEARS):-

A.Y	FDP Title	From date	To Date	Duration (week)	Organized by	Sponsored by
2021-22	FDP on ‘Embedded Systems: Concepts and Hands-on’	10 th , Oct, 2021	14 th Oct, 2021	1	The LNM Institute of Information Technology	
	FDP on “Introduction to Wireless and Cellular Communication” (NPTEL) (12 weeks)	July	Oct,2021	12	IIT Madras	NPTEL
	ATAL FDP on ‘Modulation, Coding and Multiple Access Techniques for Wireless Communication and Storage Systems’	15 th Nov	19 th Nov, 2021	1	IIT Goa	
	FDP on ‘Research applications in AI and Machine learning-RAAIML 2021’	6 th Sept, 2021	10 th Sept, 2021	1	HIT, Haldia	
	FDP on ‘Inculcating Universal Human Values UHV in Technical Education’	20 th to 24 th Dec, 2021	20 th to 24 th Dec, 2021	1	AICTE	
	FDP on “Principles of Digital Communications” (NPTEL) (12 weeks)	Jan ,2022	Apr,2022	12	IIT Delhi	NPTEL

2022-23	Research Trends and Methodologies in ML	25 th July, 2022	29 th July, 2022	1 week	HIT Haldia	HIT Haldia
	Recent Trends of Microwave and mm-wave Communication (RAMMC 2023)	2 nd Jan, 2023	6 th Jan, 2023	1 week	HIT Haldia	HIT Haldia
	Computational Methodologies	1 st August, 2022	5 th , August, 2022	1 week	HIT Haldia	HIT Haldia
	Recent Trend and Research Application on IoT and Machine Learning	12 th July, 2022	16 th July, 2022	1 week	HIT Haldia	HIT Haldia
	Emerging Trends in IoT Enabled Wireless Communication	8 th Aug, 2022	12 th Aug, 2022	1 week	HIT Haldia	HIT Haldia
	Recent Trend in Machine Learning, IoT and Data Science	23 rd Jan, 2023	28 th Jan, 2023	1 week	Asansol Engg. College	Asansol
2023-24	Innovation in Recent Trends and Research Application on Computing and Informatics	31 st July, 2023	4 th Aug, 2023	1 week	HIT Haldia	HIT Haldia
	Artificial intelligence in Advanced Machine Learning and Cloud Computing	10 th July, 2023	14 th July, 2023	1 week	HIT Haldia	HIT Haldia
	Innovative Research Prospects in Electrical and Electronic System Integrating AI & Machine Learning Techniques	28 th Nov, 2023	2 nd Dec, 2023	1 week	IEM Kolkata	CSI
	Artificial Intelligence, Machine Learning and Deep Learning,	19 th February, 2024	23 rd February, 2024	1 week	HIT Haldia	HIT Haldia
	Application of Blockchain Technology	29 th January, 2024	2 nd Feb, 2024	1 week	IEM Kolkata	CSI
	Modern and Innovative Tools in Engineering Education	15 th Jan, 2024	19 th Jan, 2024	1 week	Dr. Sudhir Chandra Sur Degree Engg. College, Kolkata	IETE
2024-25	Innovation in Recent Trends and Research Applications on Computing and Informatics	29 th July, 2024	2 nd Aug, 2024	1 week	HIT Haldia	HIT Haldia
	Emerging Technologies in Electronics & Electrical Engineering with AI Applications	9 th Dec, 2024	14 th Dec, 2024	1 week	TIU	TIU
	OBE and Advanced Research in Electrical Engineering (OBEAREE-2024)	12 th Aug, 2024	17 th Aug, 2024	1 week	HIT Haldia	HIT Haldia
	Explainable AI in Healthcare	1 st July, 2024	5 th July, 2024	1 week	JIS Kalyani	JIS

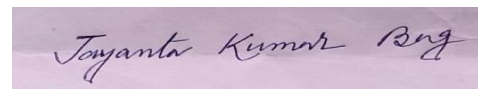
	Emergence of Cloud Computing, Cloud Technologies and Recent Trends	13/01/2025	18/01/2025.	1 week	AICTE	Techno International NEW TOWN
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REFERENCES:

1. Dr. Mrinal Kanti Naskar (Professor, Dept. of ETCE, Jadavpur University, West Bengal)
mail: mrinalcetce@gmail.com, Contact No: +91-9433276385
2. Dr. Abhijit Chandra (Associate Professor, Dept. of IEE, Jadavpur University, West Bengal)
mail: abhijit922@yahoo.co.in, Contact No: +91-9433389951
3. Dr. Krishnendu Adhvaryu (Prof. & Principal, Bankura Unnayani Institute of Engineering, West Bengal)
mail: krishnendu_adhvaryu@yahoo.com, Contact No: +91-94342 50959

DECLARATION:

I hereby declare that above furnished particulars are true to the best of my knowledge and belief.



Jayanta Kumar Bag

**Ph.D. (Engg.) Pursuing, M. E., B. Tech, GATE Qualified
Assistant Professor, Dept of ECE
HIT, Haldia, W.B**