

CURRICULUM VITAE

DIPAK SAMANTA

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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 *Asst. 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), Haldia, West Bengal as Assistant Professor from Feb, 2014 to till date in Electronics & Communication Engineering Department.

Areas of Interest: Wireless Communication and Networking, Cognitive Radio Network.

MAJOR ACHIEVEMENTS:

1. NPTEL certified FDP for 'Introduction to Wireless and Cellular Communication' course in 2021.
2. NPTEL certified FDP for 'Principles of Digital Communications' course in 2022.

ACADEMIC CREDENTIALS:

- i) **Ph.D. (Engineering)** from Department of Instrumentation & Electronics Engineering under **Jadavpur University, Kolkata, West Bengal**.
Thesis Title: Efficient Spectrum Sharing Techniques in Cognitive Radio Network for Full-Duplex communication.
- ii) **PG: M. Tech.** (Electronics & Communication Engg.) under **MAKAUT (2009-11)**, Kolkata, West Bengal with **84.6% Marks**.
- iii) **UG: B. Tech.** in Electronics & Communication Engg. from **Haldia Institute of Technology, Haldia** under **W.B.U.T, West Bengal (2003-2007)** with **7.22 DGPA**.
- iv) **(10+2): Higher Secondary** under **W.B.C.H.S.E** from St. Xavier's School, Haldia in **2003** with **80.8%**.
- v) **(10th): Madhyamik.** under **W.B.B.S.E** from St. Xavier's School, Haldia in **2001** with **72.6%**.

WORK EXPERIENCE:

Sl.No.	Institute Name with Location	University	Designation	Service Period
1	Haldia Institute of Technology, Haldia, West Bengal	MAKAUT	Asst. Professor (ECE Dept.)	17 th Feb, 2014 -till date
2	Dream Institute of Technology, Kolkata, West Bengal	MAKAUT	Asst. Professor (ECE Dept.)	21 st July, 2011 to 1 st Feb, 2014.

Major Courses Taught:

1. Basic Electronics Engineering
3. Analog Electronics.
5. Signals and Systems.
7. Advanced Digital Communication.
9. Entrepreneurship.

2. Digital Signal Processing.
4. Digital Electronics.
6. Analog Communication.
8. Organizational Behavior.

ADDITIONAL RESPONSIBILITIES HANDLED:

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| i) Departmental National Social Service (NSS) Coordinator. | iv) Central Sports Committee |
| ii) Communication Systems Laboratory in Charge. | v) Departmental Routine Committee |
| iii) Student Mentoring. | vi) Domain Coordinator for NBA(ECE) |

RESEARCH EXPERIENCE:

List of Publications

International Journals:

1. **D. Samanta**, J.K. Bag, C.K. De and A. Chandra, "A smart spectrum utilization approach using multiantenna-based cognitive relays in cognitive radio network" *International Journal of Communication Systems*, 34,1, e4671, 2021, Wiley Online Library.
2. **D. Samanta**, C.K. De, and A. Chandra, "Performance analysis of full-duplex multirelaying energy harvesting scheme in presence of multiuser cognitive radio network" **IEEE Transactions on Green Communications and Networking**, 7,2,626–634, 2022.
3. **D. Samanta**, C.K. De and A. Chandra, "Performance analysis of NOMA based hybrid cognitive radio network assist by full-duplex relay" *Telecommunication Systems*, 88,1,37, 2025.
4. **D. Samanta**, C.K. De and A. Chandra, "Performance Analysis of Full Duplex Relay based Cognitive Radio Assisted by IRS network" *Communicated to Journal of Wireless networks*.
5. Jayanta Kumar Bag, **Dipak Samanta**, Chanchal Kumar De, Abhijit Chandra, "Outage and throughput performance of smart UAV assisted full-duplex NOMA-based energy harvesting cognitive radio networks, *International Journal of Communication Systems*, Springer, Vol. 37, Issue 6, pp. e5698, April 2024 (SCI-IF 2.81).

List of Presentations in International Conference:

1. **D. Samanta**, J.K. Bag, C.K. De and A. Chandra, "Performance Analysis of Energy Harvesting-Based Relay-Assisted CR Network Under Co-channel Interference Environment" *Proc. 3rd International Conference on Communication, Devices and Computing (ICCDC)*, Haldia Institute of Technology, West Bengal, India, 685–705, 2023.
2. **D. Samanta**, C.K. De and A. Chandra, "Performance Analysis of Energy Harvesting-Based CR Network Assisted by Full-Duplex Relays Under Joint Underlay/Overlay Mode" *Proc. 3rd International Conference on Communication, Devices and Computing (ICCDC)*, Haldia Institute of Technology, West Bengal, India, 617–631, 2023.
3. **D. Samanta**, J.K. Bag, C.K. De and A. Chandra, "Performance Analysis of Full-Duplex Relay aided Multi-Primary CR Network under Non-linear Energy Harvesting Environment" *Proc. 2024 IEEE Calcutta Conference (CALCON)*, Jadavpur University, Kolkata, West Bengal, India, 1–6, 2024.

OTHER PUBLICATIONS:

1. A. Bhattacharyya, A. Das, S. Paul, **D. Samanta** and S. Sinha, "Current conveyor based non-sinusoidal oscillator implementation," *2015 Global Conference on Communication Technologies (GCCT)*, Thuckalay, India, 2015, pp. 1–3, doi:10.1109/GCCT.2015.7342612.
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. Amit Bhattacharyya, Avishek Das, Avisankar Roy, Suman Paul, **Dipak Samanta**, "Realization of Balanced Current Conveyor Based Voltage mode Universal Filter", *International Journal of Emerging Trends & Technology in Computer Science (IJETTCS)*, ISSN 2278-6856, Volume 3, Issue 6, pp 210-212, November-December, 2014.

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, ICCDC 2023, CALCON-2024.
- Organizing Committee Member for ICCDC 2017, ICCDC 2019, ICCDC 2021, ICCDC 2023 and other major events of the Department.
- Paper presenter in CALCON-2024, ICCDC-2019, ICCDC 2023.
- Reviewer for IJCS 2025.
- Reviewer for **IEEE Transactions on Green Communications and Networking 2026.**

LIST OF FDP/STTP/MOOCs ATTENDED (LAST 3 ACADEMIC 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	
	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 ^h 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	10 th July, 2023	14 th July, 2023	1 week	HIT Haldia	HIT Haldia

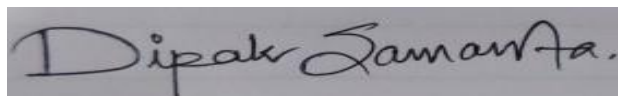
	Learning and Cloud Computing					
	Innovative Research Prospects in Electrical and Electronic System Integrating AI & Machine Learning Techniques	28 th Nov, 2023	2 nd Dec, 2023	1 week	IEM Kolkata	CSI
	Artificial Intelligence, Machine Learning and Deep Learning,	19 th February, 2024	23 rd February, 2024	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

REFERENCES:

1. Dr. Abhijit Chandra (Associate Professor, Dept. of IEE, Jadavpur University, West Bengal)
e-mail- abhijit922@yahoo.co.in, Contact No: :+91-9433389951
2. Dr. Debashish De, Assistant Professor, Energy Institute Bangaluru, Centre of Rajiv Gandhi Institute of Petroleum Technology (An Institute of National Importance), Bangalore-560165, India, e-mail- debasisd@rgipt.ac.in. Contact no.- 8918409620

DECLARATION:

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



Dipak Samanta

Ph.D. (Engg.), M. Tech, B. Tech,

Assistant Professor, Dept of ECE, HIT, Haldia, W.B