

Faculty Profile

Name : Mr. Umakanta Samantsinghar
Designation : Assistant Professor & HOD,
Dept. of Electronics & Telecommunication



Qualifications:

- Continuing Ph.D in the area of Cognitive Radio Network in the Dept. of Electronic Science, Berhampur University, Odisha.
- Qualified “National Eligibility Test” (UGC- NET) Conducted byUGC.
- Master of Technology (M-Tech.) in Electronics & Telecommunication.
- Bachelor of Technology (B-Tech) in Electronics & Telecommunication.
- Post Diploma in Computer Application.
- Diploma in Electronics & Telecommunication.

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- imscetdepartment@gmail.com (office)
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Area of Interest:

- Communication, , Device & Circuits, Microwave & Wireless communication, VLSI & Embedded System, Machine Learning & Computer Programming.

Area of Research:

- Cognitive Radio Network with ML, Wireless comm. & Sensor Network

Teaching Area:

- UG - Analog & Digital Electronics, Device & Circuits, Analog & Digitalcomm., Radio & TV, Microprocessor & Microcontroller.
- PG – Pulse & Digital Circuits, Microwave & RadarComm, Wireless Comm. & VLSI Design, Web Tech., C & Java Prog.

Total No. of Teaching Experience (Years):

- UG: 20 Years
- PG: 14 Years

Publication Profiles:

Research Articles Published:

1. "Implementation of an Indoor Deep Water Culture Farming System Using IoT." *2022IEEE 2nd International Symposium on Sustainable Energy, Signal Processing and Cyber Security (iSSSC)*. IEEE, 2022.
2. "Analysis on Trustworthiness of Secondary Users using Machine Learning Approaches in Cognitive Radio Network Environment." *2020 IEEE International Symposium on Sustainable Energy, Signal Processing and Cyber Security (iSSSC)*. IEEE, 2020.
3. "Performance Analysis of Stepper Actuator with Leadscrew for Robotic Arm Motion Applications using Fractional Calculus." *2020 International Conference on Computer Science, Engineering and Applications (ICCSEA)*. IEEE, 2020.
4. "Optimized Local sensing Energy Consumption in Cognitive Radio Network using Simulated Annealing" *Annual Technical Volume of Electronics and Telecomm. division Board, The Institution of Engineers (India)* in 2018.
5. "Threats in Cross layer Design for Multimedia Transmission over Wireless Networks" *International journal of IJEECS* in 2017.
6. "A critical Analysis on E-Governance" published in *International Journal on Cognitive Discourse* in 2013.

Books Chapters Published:

- "Implementation of Low-Cost and Low-Power-Based Temperature and Air Quality Monitoring System for a Local Area in Odisha." Published in *International Conference on Communication, Circuits, and Systems* (pp. 7-13). Springer.

Papers presented in Conferences/Seminars:

1. A study on IOT based an Indoor hydroponic Farming System and its prospective"
Presented at IEEE 2nd International Symposium on Sustainable Energy, Signal processing and Cyber Security (iSSSC). IEEE.
2. "Implementation of Low-Cost and Low-Power-Based Temperature and Air Quality Monitoring System for a Local Area in Odisha." Presented in International Conference on Communication, Circuits, and Systems (pp. 7-13). Springer.
3. "Fabrication and characterization of Graphene based Nanocomposite for electrical properties"
Presented in the National seminar on RACEES-2018 at HI-Tech Engineering College Bhubaneswar.

Invited/Special Lectures/Resource Persons or Presentations at Conferences/ Workshops:

- i) As Key-note speaker in AICTE Sponsored National workshop on “Emerging Trends in Communication and computing” at CEB, Bhubaneswar.
- ii) Participated a national workshop on “Art of Academic Writing and Publication Skills” at GM University, Sambalpur.
- iii) As a session chairperson an International Conference on Latest concepts in Science, Technology and Management at NITTTR, Chandigarh.
- iv) As an Evaluator in a Two-week ISTE STTP on CMOS, Mixed signal & Radio frequency VLSI design conducted by IIT, Kharagpur..
- v) As an Invited speaker in a Mini-Colloquium on Advanced CMOS based Nano-Devices at Silicon Institute of Technology, Bhubaneswar.
- vi) As a Resource Person in International Conference and presented a paper on “Internet Telephony based on IPv6 Protocol” at GIET, Gunupur.
- vii) As a Resource Person in National Level Workshop on Advances in Computational Intelligences, SOA University, BBSR.

Association with Professional Bodies:

- As a Reviewer in Springer & Elsevier publications in Journal of Information Technology and Communication Networks.
- As an Editorial Board Member in the Journal of International Journal of Electrical, Electronics Engineering.
- As a member in **IEEE, IEI & IETE**.
- As a member in Recruitment Board and Inspection committee of National Institute of Electronics and IT (NIELIT), Bhubaneswar.

