

Name of Faculty Dr. LAXMI SHAW
 Designation Assistant Professor
 Nature of Job/Appointment Contract (Up to May 2021)
 Date of Joining 01-06-2020
 E-mail laxmishaw_ece@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Ph D (IIT KGP)	Awarded
PG	M.Tech (Master of Technology)	1 st class (81.78%)
UG	B.E(Bachelor of Engineering)	1 st class (74.73)

Work Experience

Teaching	06 Years
Research	--
Industry	02 years
Others	--

Area of Specialization Computational Neuroscience, Pattern recognition, Machine Learning and Deep Learning, Data Science, Instrumentation and Control

Professional Memberships LM 50693(ISTE), 93104464(IEEE Member)

Responsibilities held at Institution Level

1. Worked as research resource person, in CBIT from 01 – 06 - 2020 to still continuing.
2. Member Academic Council, CBIT

Responsibilities held at Department Level

1. Member of Board of Studies
2. Member, Course expert Group

Research Guidance

Awards Received

Courses Handled at Under Graduate / Post Graduate Level. Biomedical Instrumentation, Control System, Advanced Control System, Digital electronics, Analog electronics Circuits, Electrical and Electronics Measuring Instruments, Signal & System, Digital Signal Processing, Advanced digital signal processing, Digital Image Processing, Pattern recognition and Machine Learning, Sensors and Transducers, Stochastic processes

No. of Papers Published

National Journals –	01	International Journals –	10
National Conference –	01	International Conference –	10

Projects Carried out 01

Patents --

Technology Transfer --

Invited Speaker

1. Advisory Board Member of Ashoka Institute of Engineering and Technology (AIET) in the Department of Electronics and Communication Engineering (Data Sciences) for the session 2020-2021.
2. Resource person for the FDP to be conducted by ECE Dept. CBIT on “Research Opportunities in Image Processing and Machine Learning”, to be held from Dept. 29/06/2020 to 03/07/2020. ”.
3. Resource person and delivered a talk on “Advanced Machine Learning for Data Scientists” for the FDP to be conducted by ECE Dept. Ashoka Institute of Engineering & Technology, Hyderabad on “Recent Trend in Computational technologies”, to be held from 13/07/2020 to 18/07/2020”.
4. Resource person in FDP, organized by ECE dept. in CBIT from 01 – 06 - 2020 to still continuing.

No. of Books/Chapter Published with details

1. Shaw, L., & Routray, A. (2020). Pattern Analysis of Brain Functional Connectivity Parameters after Removal of Artifacts from EEG during Meditation. In *Advanced Computing and Intelligent Engineering* (pp. 353-361). Springer, Singapore.
2. Shaw, L., & Sahoo, RN. (2020). Uses of Machine Learning in IoT: State-of-the-Art and Prospective, *IoT Applications, Security Threats and Counter measures*, CRC Press: Taylor & Francis Group.

Details of Short-Term Training Programs /Faculty Development Programs / Seminars/Workshops/ Other Trainings (Attended and/or Organized).

1. A One Week Faculty Development Program on “Applications of IoT”, at NITTTR Chandigarh during 16 – 06– 2020to 20 – 06– 2020.
2. A OneWeekFaculty Development Program onDATA ANALYTICS WITH PYTHON” at NITTTR Chandigarh during 22 – 06–2020to 26 – 06– 2020.
3. A technical webinar topic on “Cloud Computing Using Oracle Fusion” is organized by Dept. of Computer Science and Engineering, Francis Xavier Engineering College ,Tamil Nadu, India on 04-07-2020
4. Participated in One Week Faculty Development Program on, “Future Nano Electronic Devices and Circuits”organized by ECE dept, at MGIT Hyderabad during 6th July -10th July 2020.
5. Eight weeks course on “Data Science for Engineers”(Online certification course)by NPTEL, IIT Madras from Jan-Mar 2019
6. Participated in a workshop on “Introduction to Python” held and conducted by IIT Kharagpur during 16th to 19th August,2017
7. Participated in the course “Advances of Neurotechnology and its Applications to Brain Machine Interactions” offered by GIAN and held at IIT Kharagpur from 15-20 January, 2018
8. Participatedin online webinar,”4 Ways to Improve Linux Performance for Multicore Devices”, 28th March, 2017 by IEEE continuing educational.
9. Participated in Leadership Talk with Shri Dipendra Manocha (Motivational Speaker) held on 27th Jun 2020 by MHRD’s innovation Cell.
10. Participated FDP on” Could Computing Basics using Oracle Fusion”, on 04-07-2020 organized by CSE, Francis Xavier Engineering College.
11. Participated in webinar on “Statistical analysis as an interfacein Engineering Problem organized by Dept. of Mathematics- CBIT on 13th July 2020
12. Participated online webinar on “Business Intelligence and Analytics” on 22nd July 2020, Organized by CSE, Francis Xavier Engg College.
13. Participated in online webinar on from IEEE Computer Society Student Branch Chapter, IIT Kharagpur,“From Pixels to Models: Image Processing, Computer Vision, and Machine Learning” by Math Works: Markers of MATLAB & Simulink on 10th July 2020.
14. Participated in online webinar in “Recent Approaches for Wireless Sensor Networks” on 23rd July 2020 organized by ECE in association with Ashoka IETE student forum.
15. Participated in Two days’ workshop on, “Python Programming for image Processing and Computer vision”, organized by Dept. of CSE od Guntur Engineering College, on 16th and 17th July 2020.
16. Participated in One week national Level Online Faculty Development program on, ”MATLAB and its Applications in Engineering using Machine Learning and Deep Learning ” organized by ECE dept. G Pulla Reddy Engineering College, Kurnool in association with Math Works and Capricot Technologies Pvt. Ltd during 13th July to 17th July 2020.
17. Participated in the online webinar on, “MATLAB & Simulink Fundamentals and its Application in AI” jointly organized by ECE dept. Atharva College of Engineering, Mumbai and Designtech system Pvt. Ltd on 23th July 2020.
18. Participated in online quiz on “Programming in Python” organized by dept. of CSE, Lords Institute of Engineering and Technology, Hyderabad, on 5th June 2020 with 93%.
19. Participated in One Week online FDP on, “Cyber Attacks & Digital Forensics”,Organized by the Department of Information Technology, Mahatma Gandhi Institute of Technology in association with Indian Serverson from 20th to 24th July 2020.

International/National Journals from the Year 2017

1. Shaw, L., & Routray, A. (2018). A new framework to infer intra-and inter-brain sparse connectivity estimation for EEG source information flow. *IEEE Sensors Journal*, 18(24), 10134-10144.
2. Shaw, L., Rahman, D., & Routray, A. (2018). Highly efficient compression algorithms for multichannel EEG. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, 26(5), 957-968.
3. Shaw, L., & Routray, A. (2018). Topographical assessment of neurocortical connectivity by using directed transfer function and partial directed coherence during meditation. *Cognitive Processing*, 19(4), 527-536.
4. Shaw, L., Routray, A., & Sanchay, S. (2017). A robust motifs based artifacts removal technique from EEG. *Biomedical Physics & Engineering Express*, 3(3), 035010.

International/National Conference Proceedings from the Year 2017

1. Shaw, L., & Routray, A. (2017, December). Topographical Sub-bands Analysis of EEG during Short Kriya Yoga Meditation. In 2017 14th IEEE India Council International Conference (INDICON) (pp. 1-5). IEEE.
2. Shaw, L., Vamsi, G. C., & Routray, A. (2017, December). Study of Kalman filter based Noise Estimation in Artifactual EEG and their Quantification. In 2017 14th IEEE India Council International Conference (INDICON) (pp. 1-5). IEEE.
3. Shaw, L., & Routray, A. (2017). Topographical pattern analysis using wavelet based coherence connectivity estimation in the distinction of meditation and non-meditation EEG. In 2017 25th European Signal Processing Conference (EUSIPCO) (pp. 1554-1558). IEEE.