SITIKANTHA CHATTOPADHYAY

Ph.D (CSE) Pursuing, M.Tech (CSE), B. Tech (CSE), MIE (I), Member (CSI), Member (IAENG), Reviewer (JETIR, IJCRT)

Present Status

As an **Assistant Professor** in Computer Science and Engineering department at **Adamas University**, Barasat-Barrackpore Road, Jagannathpur, District-24 Parganas (North), Kolkata-700126, West Bengal and **Pursuing Ph.D. (Registration Completed)** in Computer Science and Engineering at **National Institute of Technology (NIT), Durgapur**.

Education

2022–Till Now **Ph.D in Computer Science and Engineering (Pursuing, Registration Completed)**, *National Institute of Technology*, Durgapur, *Mode:- Part Time*.

2008 **M.Tech in Computer Science and Engineering**, *MAKAUT (Formerly WBUT)*, Kolkata, *CGPA –7.40*.

2006 **B.Tech in Computer Science and Engineering**, *MAKAUT (Formerly WBUT)*, Kolkata, *CGPA –7.12*.

2002 **Higher Secondary Examination**, Under West Bengal Council of Higher Secondary Education, *Percentage – 53.4*.

2000 **Secondary Examination(Madhyamik)**, UnderWest bengal Board of Secondary Education, *Percentage – 54.3*.

Work Experience (17 Years)

15.07.2024– Till Date — **Assistant professor**, *Department of Computer Science and Engineering*, Adamas University.

Responsible for assisting in the educational development of pupils under the direction and guidance of the Vice-Chancellor. Organizing classes and responding to the strengths and needs of students during lessons.

Duties and Responsibilities:-

- Served as Assistant Professor to teach different core subjects and programming languages.
- Organized and conducted various technical events like Workshops/Seminar/Webinar/Conference.
- Served as SPOC in Student registration process of the department.

01.02.2024– 11.07.2024 — **Assistant professor**, *Department of Computer Science and Engineering*, Swami Vivekananda University.

Responsible for assisting in the educational development of pupils under the direction and guidance of the Vice-Chancellor. Organizing classes and responding to the strengths and needs of students during lessons.

Duties and Responsibilities:-

- Served as Assistant Professor to teach different core subjects and programming languages.
- Organized and conducted various technical events like Workshops/Seminar/Webinar/Conference.

09.10.2018– 31.01.2024 — **Assistant professor and TIC**, *Department of Computer Science and Engineering*, Brainware University.

Responsible for assisting in the educational and social development of pupils under the direction and guidance of the Vice-Chancellor.Organizing classes and responding to the strengths and needs of students during lessons.

Duties and Responsibilities:-

- Served as Assistant Professor to teach different core subjects and programming languages.
- Served as Teacher-in-Charge of CSE department.
- Organized and conducted various technical events like Workshops/Seminar/Webinar/Conference.
- Organized and conducted Student Induction Programs and Faculty Induction Programs.
- Served as Program Coordinator for B.Tech in CSE Specialized in AIML.
- Given seminars in different places for admission purposes with the University marketing team.
- Served as an active member of the University Anti-Ragging Committee.
- Taken responsibility to distribute subject load among departmental faculty members and involved in University Routine preparation.
- Served as a member of the University NAAC Committee.
- Designed Syllabus for various UG and PG courses.
- Taken responsibility to write Minutes of Meetings of both DAC and BOS.

11.01.2008–06.10.2018	**Assistant professor**, *Department of Computer Science and Engineering*, Durgapur Institute of Advanced Technology and Management, Under MAKAUT,approved by AICTE.

Responsible for assisting in the educational and social development of pupils under the direction and guidance of the Director.Organising classes and responding to the strengths and needs of students during lessons.

Duties and Responsibilities:-

○ Served as Assistant Professor to teach different core subjects and programming languages.
○ Planning and organising visits, field studies and special activities connected with the teaching of the subject.
○ Supporting the department in delivering the curriculum effectively.
○ Organising and supporting a range of extra-curricular activities.

Technical Proficiency

Subject Proficiency	Microprocessors and Microcontrollers, Computer Organization, Computer Architecture, Digital Electronics, Operating System, PC Hardware and Networking, Software Engineering, Object Oriented Programming, Introduction to Computing and Programming with C, Multimedia
Recent Technologies	Machine Learning, Hardware Security
Programming Languages	ALP, VHDL, C, Core Java, PHP
Simulators	Xilinx

Professional Memberships

1. Corporate Life member of **Institute of Engineers**, Membership ID: M-1615801.
2. Life member of **Computer Society of India**, Membership ID – 2010001081
3. Life member of **International Association of Engineers, Canada**, Membership ID:222953. Also member of **IAENG Society of AI, Computer Science and Imaging Engineering**.
4. Review Member of UGC approved, peer reviewed International Journal of Emerging Technologies and Innovative Research, ISSN: 2349-5162, Member ID – 114783.
5. Review Member of UGC approved, open access International Journal of Creative Research Thoughts, ISSN: 2320-2882, Member ID – 114733.

References

1. **Dr. Suchismita Roy**,
   Professor and Dean (Faculty Welfare),
   National Institute of Technology, Durgapur.
   Mobile - 9434788122

Workshop/Seminar/FDP Organized/Reviewer

1 Worked as **Reviewer** of 2nd International Conference on IoT and its Applications (ICIA –2024) at NIT Jamshedpur during 21-22 June, 2024. **(Springer)**.

1 Worked as **Convener** of 1-day National Seminar and Coding Competition on Recent Innovation (NSCVE –2022) in association with CSI Student Chapter, Brainware University on 15th October, 2022. **(CSI)**.

2 Worked as **Convener** of 1-day National Seminar and Poster Competition on Current Vision of Engineers (NSRI – 2022) in association with CSI Student Chapter, Brainware University on 15th September, 2022. **(CSI)**.

3 Worked as an **Organizing Committee Member** of 5-days National Workshop on Application of Emerging Technologies in Industry in association with CSI Brainware University Student Chapter on 10th – 14th August, 2021. **(CSI)**

4 Associated with 2nd International Conference on Mathematical Modeling and Computational Science (ICMMCS 2021) held on 29th – 30th October, 2021 in online mode as a Technical Program Committee member **(Springer)**

5 Worked as a **Technical Program Committee member** in 1st International Conference on Mathematical Modeling and Computational Science (ICMMCS 2020) held on 14th – 15th August, 2020 at Pattaya, Thailand. **(Springer)**

6 Worked as a **Session Moderator and Organizing Committee Member** in 2-weaks Faculty Development Program on "Emerging Concepts in Modern Computational Systems (ECMCS)", Conducted by Department of Computer Science and Engineering, Brainware University, Barasat, Kolkata, on 16th – 28th December, 2020.

Workshop/Seminar/FDP Attended

1 10-days **Faculty Development Program** on "Emerging Concepts in Modern Computational Systems (ECMCS-2022)", Conducted by Department of Computer Science and Engineering, Brainware University, Barasat, Kolkata, on 3 rd – 14th January, 2022.

2 **AICTE Training and Learning (ATAL) academy Online Elementary FDP** on "Data Sciences and Its Industrial Applications" from 01/10/2021 to 05/10/2021 at NIT Jamshedpur.

3 3-days online workshop on "Digital and Computational Geometry: Advancements,Applications and Challenges", Conducted by IIIT Kalyani, on 21th – 23rd April, 2021.

4 10-days Faculty Development Program on "Network and Cyber Security", Conducted by Department of Cyber Science and Technology, Brainware University, Barasat, Kolkata, on 12th – 22th January, 2021.

5 2-weaks Faculty Development Program on "Emerging Concepts in Modern Computational Systems (ECMCS)", Conducted by Department of Computer Science and Engineering,Brainware University, Barasat, Kolkata, on 16th – 28th December, 2020.

6   A Short-Term Course on "Cryptography Fundamentals", Certified by IEEE Continuing Education on 29th June, 2020.

7   Online AICTE recognized Faculty Development Program on "Data Analytics with Python"organized by Computer Science and Engineering Department, NITTTR, Chandigarh, on 22nd – 26th June, 2020.

8   3-days Faculty Development Program on "Research Trends in Advanced Computing", Conducted by Department of Computer Science and Engineering, Brainware University, Barasat, Kolkata, on 17th – 19th June, 2020.

9   A Short-Term Course on "System Fundamentals for Cyber Security", Certified by IEEE Continuing Education on 9th June, 2020.

10 A Short-Term Course on "Enterprise Blockchain for the Internet of Things", Certified by IEEE Continuing Education on 9th June, 2020.

11 Workshop on "Cyber Security and Ethical Hacking", organized by Dept. of Computer Science and Engineering of Brainware University, Barasat, West Bengal in collaboration with Ardent Computech Pvt. Ltd. on 14th September, 2019.

12 Workshop on "Image Processing and Computer Vision", organized by Dept. of Computer Science and Engineering of Durgapur Institute of Advanced Technology and Management, Durgapur, West Bengal on 31st August, 2018.

13 2-Weeks Faculty Development Program at Durgapur Institute of Advanced Technology and Management, Durgapur, West Bengal, organized by Webcon Consulting (India) Ltd, Kolkata, sponsored by Entrepreneurship Development Institute of India, Ahmedabad under DST-NIMAT (2017-18) project on 1st – 15th September, 2017.

14 National Workshop on "Nano-Science and Technology, Quantum Computing and its Application", jointly organized by Dept. of Engineering Science and Dept. of Computer Science and Informatics of Haldia Institute of Technology, Haldia, West Bengal on 9th – 10th March, 2007.

Invited Lectures

1. Given lecture with hands-on experiments in one-day workshop on Practical Aspects of Digital Electronics, organized by CSE Department, Brainware University, Barasat, held on 28th July, 2022.

Publications

In National/International Refereed Journals:-

1   Piyali De, Koushik Mukhopadhyay, Sitikantha Chattopadhyay, Mamoni Bandyopadhyay (2024), "A Multi-Parameter-Based Clustering Protocol For Heterogeneous Wireless Sensor Networks" in Educational Administration: Theory and Practice, 29(1), 328–336.**(Open Access, Scopus)**

2   Sitikantha Chattopadhyay, Subhra Prokash Dutta and Ritesh Prasad (2022), "Performance Analysis of AODV, DSDV and DSR Algorithms in MANET with Random Waypoint Model" in Brainwave, A Multidisciplinary Journal, ISSN: 2582-659X, Vol. 3, Special Issue, March 2022, pp. 68-73.**(Open Access)**

3 D. Akila, Souvik Pal, R. Jayakarthik, Sitikantha Chattopadhyay, Ahmed J. Obaid (2021), "Deep Learning Enhancing Performance Using Support Vector Machine HTM Cortical Learning Algorithm" Published in Journal of Physics: Conference Series **(Open Access)** as Proc. 2nd International Conference on Physics and Applied Sciences (ICPAS 2021), held at Baghdad, Iraq on May 26-27, 2021 **(Scopus, SCImago − 0.21)**

4 Sitikantha Chattopadhyay (2019), "An Efficient 8-bit Image Steganography Technique by Reverse Searching Method" in Int'l Journal of Emerging Technologies and Innovative Research, ISSN: 2349-5162, Vol. 6, Issue 5, May 2019, pp. 421-424 with impact factor 5.87. **(UGC approved)**

5 Sitikantha Chattopadhyay (2019), "An Advanced Slab Based Image Steganography Technique for 8-bit Color Images by Introducing Diagonal Searching" in Int'l Journal of Innovative Knowledge Concepts, ISSN: 2454-2415, Vol. 7, Special Issue 1, 2019, pp.81-85.**(UGC approved)**

In International Conferences:-

1 Sitikantha Chattopadhyay, Aditya Chowdhury, Subhra Prokash Dutta, Koushik Mukhopadhyay, Jayeeta Ghosh, Piyali De (2023), "Cumulonimbus Cloud Classification using Transfer Learning with AlexNet", Accepted to be Published in Journal of Physics: Conference Series **(Open Access)** as Proc. 4th International Conference on Advances in Physical Sciences and Materials (ICAPSM 2023), held at Coimbatore, Tamil Nadu, India on August 17-18, 2023 **(Scopus, SCImago − 0.21)**

2 Jayeeta Ghosh, Piyali De, Sitikantha Chattopadhyay, Subhra Prokash Dutta, Saptarshi Kumar Sarkar (2023), "A study of Supervised Machine Learning Techniques to Predict Cyclone" Accepted to be Published in Journal of Physics: Conference Series **(Open Access)** as Proc. 4th International Conference on Advances in Physical Sciences and Materials (ICAPSM 2023), held at Coimbatore, Tamil Nadu, India on August 17-18, 2023 **(Scopus, SCImago − 0.21)**

3 Koushik Mukhopadhyay, Sitikantha Chattopadhyay, Subhra Prokash Dutta, Sonali Bhattacharyya, Souvik Pal, Ahmed Kareem Alzeyadi (2022), "Recent advancement of block chain in health care" Published in the proceedings of The National University of Science and Technology International Conference for Pure and Applied Sciences (NUSTPAS-2022), held at NUST University, Dhi-qar, Iraq on 1-2 June, 2022, AIP Conf. Proc. 13 September 2023; Volume - 2845, Issue - 1: pp. 050031. **(AIP Conference)**

4 Niti Dey, Sitikantha Chattopadhyay, Subhra Prokash Dutta, Koushik Mukhopadhyay, Pranati Rakshit, Ton Quang Cuong, Souvik Pal, Sajjad Ali Ettyem (2022), "User feedback based sentiment analysis system using machine learning for a restaurant" Published in the proceedings of The National University of Science and Technology International Conference for Pure and Applied Sciences (NUSTPAS-2022), held at NUST University, Dhi-qar, Iraq on 1-2 June, 2022, AIP Conf. Proc. 13 September 2023; Volume - 2845, Issue - 1: pp. 050032. **(AIP Conference)**

5   Sitikantha Chattopadhyay and Shreya Das (2022), "Web-based Multi-modal Interface Design for Visually Impaired Users" Published in the proceedings of International Conference on Current Research in Engineering and Technology (ICCRET-2022), held at Brainware University, Barasat on November 25-26, 2022.

6   Sitikantha Chattopadhyay, Koushik Mukhopadhyay, Subhra Prokash Dutta and Shreya Das (2022), "A Research study on Li-Fi: Light Fidelity" Published in the proceedings of International Conference on Current Research in Engineering and Technology (ICCRET-2022), held at Brainware University, Barasat on November 25-26, 2022.

7   Sitikantha Chattopadhyay, Subhra Prokash Dutta and Ritesh Prasad (2021), "Performance Analysis of AODV, DSDV and DSR Algorithms in MANET with Random Waypoint Model" Presented and Published in Book of Abstracts of International Conference on Current Research in Engineering and Technology (ICCRET-2021), held at Brainware University, Barasat on November 26-27, 2021.

8   Sitikantha Chattopadhyay, Pinaki Pratim Acharjya and Santanu Koley (2021), "A Smart Emergency Exit System Based on IoT for Fire Perils" Presented in CSI sponsored 2nd International Conference on Advanced Computing and Applications (ICACA-2021), held online on March 25-27, 2021. **(Springer)**

9   Sitikantha Chattopadhyay, Souvik Pal, Pinaki Pratim Acharjya and Sonali Bhattacharyya (2020), "A Comparative Study to Classify Cumulonimbus Cloud using Pre-trained CNN" Presented in 5th International Conference on Research in Intelligent and Computing in Engineering (RICE-2020), held at Thu Dau Mot University, Vietnam on June 3-4, 2020.**(Springer)**

10 Sitikantha Chattopadhyay (2019), "An Advanced Slab Based Image Steganography Technique for 8-bit Color Images by Introducing Diagonal Searching" Presented in CSI International Conference RAICMHAS-2019, Brainware University, Barasat, Kolkata, India. **(CSI Sponsored)**

11 Sitikantha Chattopadhyay, Dr. Pinaki Pratim Acharjya and Dr. Chandan Koner (2018), "A Morphological Approach to Match Two Color Images Using Deep Learning" Presented and published in Proc. ICSSIT-2018, Tirunelveli, Tamil Nadu, India, ISBN:978-1-5386-5872-7, pp. 217-220, 2018. **(IEEE)**

12 Sitikantha Chattopadhyay, Dr. Pinaki Pratim Acharjya and Dr. Chandan Koner (2018), "A Deep Learning approach to implement slab-based image steganography algorithm of RGB images" Presented and published in Proc. ICICT-2018, Coimbatore, Tamil Nadu, India, ISBN:978-1-5386-4984-8, pp. 734-736, 2018. **(IEEE, Scopus)**

13 Sitikantha Chattopadhyay, Koushik Mukhopadhyay and Pinaki Pratim Acharjya (2018), "A slab based image steganography technique for 24-bit colour images" Presented and published in Proc. ICICSS-2018, Coimbatore, Tamil Nadu, India, ISBN: 978-1-5386-4344-0, pp. 165-168, 2018. **(IEEE)**

14 Sankar Mukherjee, Sitikantha Chattopadhyay and Biswarup Niogy (2009), "Performance analysis of routing algorithms in MANET" Presented and published in Proc. International Conference ICMCS-2009, Loyola College, Chennai, Tamil Nadu, India, Vol-1, pp. 232-235, 2009.

In National Conferences:-

1 Purushottam Mohanta and Sitikantha Chattopadhyay (2010), "Kalman filter in LIDAR data processing" Presented and published in Proc. National Conference on Materials, Devices and Circuits in Communication Technology, University of Burdwan, West Bengal, India,pp. 20-21, 2010.

2 Suman Paul and Sitikantha Chattopadhyay (2007), "Explosive detection on THz frequency" Presented and published in Proc. National Conference on Explosive Detection, Haldia Institute of Technology, Haldia, West Bengal, India, 2007.

Book/Book Chapter Published:-

1 Ritesh Prasad, Sitikantha Chattopadhyay, Shiplu Das (2022), "Trustworthiness of Customer Reviews of E-Commerce Portal using Supervised and Semi-Supervised Machine Learning Techniques" published in "Proceedings of 2nd International Conference on Machine Vision and Augmented Intelligence: MAI 2022 - Lecture Notes in Electrical Engineering", Vol - 1007, pp. 553 - 559 **(Springer, Scopus)**

2 Joydeep Kundu, Sitikantha Chattopadhyay, Subhra Prokash Dutta, Koushik Mukhopadhyay and Souvik Pal (2021), "Trust Based Efficient Computational Scheme for MANET in Clustering Environment" published in "Proceedings of 2nd International Conference on Mathematical Modeling and Computational Science: ICMMCS 2021 - Advances in Intelligent Systems and Computing", Vol – 1422, pp. 305 – 314. **(Springer, Scopus)**

3 Shiplu Das, Sitikantha Chattopadhyay, Ritesh Prasad, Joydeep Kundu and Souvik Pal (2021), "Text region identification from Natural Scene Images using Semi-Supervised MSER method" Accepted to be published in "Proceedings of 2nd International Conference on Mathematical Modeling and Computational Science: ICMMCS 2021 - Advances in Intelligent Systems and Computing", Vol – 1422, pp. 401 – 408. **(Springer, Scopus)**

4 Pinaki Pratim Acharjya, Santanu Koley and Sitikantha Chattopadhyay (2021), "A Smart Emergency Exit System Based on IoT for Fire Perils" Published in "Proceedings of International Conference on Advanced Computing Applications - Advances in Intelligent Systems and Computing", Online ISBN: 978-981-16-5207-3, Vol – 1406, pp. 141 - 149. **(Springer, EI Compendex)**

5 Sitikantha Chattopadhyay, Subhra Prokash Dutta, Sanjukta Mishra and Suprativ Saha (2021), "Use of Marker-Controlled Watershed Segmentation to Classify Cumulonimbus Cloud with Pre-Trained CNN" Published in "Soft Computing: Theories and Applications - Advances in Intelligent Systems and Computing", Vol – 1381, pp. 63 – 70. **(Springer, Scopus)**

6 Sitikantha Chattopadhyay, Souvik Pal, Pinaki Pratim Acharjya and Sonali Bhattacharyya (2021), "A Comparative Study to Classify Cumulonimbus Cloud using Pre-trained CNN" Published in "Research in Intelligent and Computing in Engineering - Advances in Intelligent Systems and Computing (AISC)", Online ISBN: 978-981-15-7527-3, Vol–1254, pp. 113 – 120. **(Springer, EI Compendex)**

7 Sitikantha Chattopadhyay (2019), "Morphological Image Segmentation Using Watershed Transformation" Published in "Computer and Information Systems into Next Frontier: The Emergence" by P.K. Paul and Soumya Paul, ISBN: 978-938-88-7959-0, New Delhi, First Edition, 2019, pp. 42-53. **(New Delhi Publishers)**

Patents:-

1 A self-controlled UAV based forest fire detection system. Mr. Animesh Upadhyay, Mr. Koushik Mukhopadhyay, Mr. Sitikantha Chattopadhyay, Mr. Subhra Prokash Dutta, Mr. Shiplu Das, Dr. Debdutta Pal, Dr. Shivnath Ghosh, Application Number- 202331022410, Filling Date- 27.03.2023, Publication Date- 07.04.2023, Indian Patent Office.

2 A Water Bottle with Storage Capacity in The Bottle Cap for Storing ORS Powder and Small Medicine", Ms. Jayeeta Ghosh, Dr. Shivnath Ghosh, Mrs. Piyali De, Mr. Saptarshi Kumar Sarkar, Mr. Sitikantha Chattopadhyay, Mr. Koushik Mukhopadhyay, Mr. Subhra Prokash Dutta, Mrs. Subhra Halder, Ms. Anindita Chakraborty, Mr. Kazi Md. Arfin, Mr. Sital Sharma, Mrs. Sampurna Mandal. Filling Date- 12.07.2023, Application Number - 202331049759, Publication Date - 13/10/2023, Indian Patent Office

3 Health-It. Mr. Subhra Prokash Dutta, Mr. Anshu Chakraborty, Mr. Sayan Chakraborty, Mr. Chiranjeet Sarkar, Mr. Abhishek Banerjee, Mr. Koushik Mukhopadhyay, Mr. Sitikantha Chattopadhyay, Dr. Debdutta Pal, Mr. Shiplu Das, Mrs. Priyanka Ghosh. Filling Date- 09.02.2023

Personal Information

Father's Name	Dr. Byashdeb Chattopadhyay
Mother's Name	Mrs. Subhra Chattopadhyay
Date of Birth.	20/09/1984
Nationality	Indian
Religion	Hindu
Caste	General
Marital Status	Married
Language Known	English, Hindi, Bengali

Declaration

All the above information is true to the best of my knowledge and belief.

Sitikantha Chattopadhyay
Date: