



Utsab Mukherjee

College Whole Time Teacher
Department of Computer Science

Contact Information

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Specialization

- IoT and Computer Hardware



**THE BHAWANIPUR
EDUCATION SOCIETY COLLEGE**

Biographical Sketch

Utsab Mukherjee is currently associated as College Whole Time Teacher, in the Department of Computer Science, The Bhawanipur Education Society College, affiliated to University of Calcutta. Prior to joining this institution, he worked as a Guest Faculty, at Sarsuna College, Physics Department for one year and Behala College, Electronics Department for six months. He completed his B.Sc(H) degree from Asutosh College, affiliated to the University of Calcutta in Electronics and M.Sc. degree from University of Calcutta (UCSTA), Kolkata, with specialization in bioelectronics.

He has published his research papers in some conferences (international) and in reputed journals as well. He has also participated in several national seminars / webinars / workshops / conferences.

Academic Qualifications

Abbreviation of the Degree	Name of the College / University	Class Obtained	Area	Year of Passing
M.Sc	University of Calcutta (UCSTA)	1 st Class	Electronic Science	2015
B.SC (Honors)	Asutosh College	1 st Class	Electronics Honors, Physics and Mathematics	2013

Position Holding (Full Time)

College Whole Time Teacher, Department of Computer Science, The Bhawanipur Education Society College, University of Calcutta, July 2016 - Present.

Position Held (Full Time)

Guest Faculty in Sarsuna College, Kolkata, Affiliated to University of Calcutta in the department of Physics.

Guest Faculty in Behala College, Kolkata, Affiliated to University of Calcutta in the department of Electronics.



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Subjects Taught As Part Time Faculty

Analog Electronics | Digital Electronics | C - Programming | Microprocessor | Communication | Atomic and Nuclear Physics | Quantum Mechanics | Solid State Physics | Instrumentation.

Administrative Assignment

- Coordination in Digital Circuit Design. (2016 - present)
- Coordination in Analog Electronics. (2016 - present)
- Coordination in Microprocessor and Microcontrollers. (2017 - present)
- Guiding students for hands-on experiment in Science Exhibition (February 2017)
- Mentoring students (all three years)
- Online examination coordinator for the department (2021 - present)
- Management of students during field trip to Jaldhaka hydel project (2019)
- Convenor in Students Webinar (2020)
- Setting question paper for inter-college national fest (Apti-Fest - 2020)
- Setting question papers for internal tests
- Evaluation of answer scripts of both college and university
- Conducting practical examinations
- Departmental coordinator in examination committee
- Member and mentor in SWAYAM committee
- Member in alumni committee





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Subjects Taught As Part Time Faculty

Computer Fundamentals and Digital Circuit Design (Core Course and Generic Elective – Semester1) | Analog Electronics (Core Course – Semester 2) | Programming with C (Generic Elective – Semester 2) | Computer Organization and Architecture (Core-Course – Semester 3) | Numerical Methods in Computational Mathematics (Core-Course – Semester 3) | Programming with Microprocessor (Core-Course – Semester 4) Green Computing (Project – Semester 6) | 5G networks (Project – Semester 6) | Web development (Project semester 6) | Recommendation system (Project Semester 6)

Research Interests

IoT and Sensor Networks | Quantum Computing | Cloud Computing | Computer Vision | Artificial Neurons

Journal Publications

- Mukherjee, U., Bandyopadhyay, P., & Kumar, S. (2020). Detection of Human Behaviour by Object Recognition using Deep Learning: A Review. International Journal of Innovative Research in Computer Science & Technology (IJIRCST), 8.
- Mukherjee, U., Dutta, S., & Bandyopadhyay, S. K. (2021). Assembling Blockchain and IoT for Smart Food-Supply Chain. Asian J. Adv. Agric. Res, 16, 49-58.
- Mukherjee, U., Thakkar, V., Dutta, S., Mukherjee, U., & Bandyopadhyay, S. K. (2021). Emerging Approach for Detection of Financial Frauds Using Machine Learning. Asian Journal of Research in Computer Science, 11(3), 9-22.

Publications In Edited Conference Volumes

Halder, S., Dutta, S., Banerjee, P., Mukherjee, U., Mehta, A., & Ganguli, R. (2021). A Survey on Online Spam Review Detection. Emerging Technologies in Data Mining and Information Security, 717-724.

Paper Presentations At Conferences

Participated on the 2nd International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2020) for a paper on “A Survey on Online Spam Review Detection” and published the paper on Springer Advances in Intelligent Systems and Computing (AISC) Series





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Participation In Seminars / Webinars / Workshops / Conferences

- Participated in a Popular Talk on “Dealing with Large Scale Computation as well as data” (September 11, 2017) organized by the Department of Computer Science – The Bhawanipur Education Society College.
- Participated in a Popular Talk on “Classical Computation” on December 1, 2017 organized by the Department of Computer Science – The Bhawanipur Education Society College.
- Participated in a One Day Workshop on “Syllabus for Computer Science (Honours and General) under CBCS” on 28th June 2018 organized by the Department of Computer Science – The Bhawanipur Education Society College.
- Participated in a Popular Talk on “Career Avenues for Computer Science Graduates” on September 18, 2018 organized by the Department of Computer Science – The Bhawanipur Education Society College.
- Participated in a University Visit to the University of Calcutta for the students of Computer Science, The Bhawanipur Education Society College in December 2018 organized by the Department of Computer Science – The Bhawanipur Education Society College.
- Participated in a University Visit to the University of Calcutta for the students of Computer Science, The Bhawanipur Education Society College in December 2018 organized by the Department of Computer Science – The Bhawanipur Education Society College.
- Participated in a Three-Day Workshop on “Python Programming with Introduction to Machine Learning” from 25th to 27th February 2019 organized by the Department of Computer Science – The Bhawanipur Education Society College.
- Participated in An online talk on Simplifying Artificial Intelligence, Machine Learning and Data Science on 13th June 2020 organized by the Department of Computer Science – The Bhawanipur Education Society College.
- Participated in International Webinar on 5G and Beyond: how the world of telecommunication will look in next 5 years Organized by Department of Computer Science organized by THK Jain college on 11.07.2020.
- Participated in a national webinar on ‘Hazards of electromagnetic radiations’ organized by department of electronics, The Bhawanipur Education Society College on 29th July 2020.





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- Participated in International Webinar on "Dielectric Nanophotonics as an Alternative to Nanoplasmonics" jointly organised by the Department of Electronics and Physics, Bidhan Chandra College, Rishra on 6th September.
- Participated in a webinar on "Saha and his journey to the stars", organized by Department of Physics The Bhawanipur Education Society College, on June 22, 2020.
- Participated in a webinar on "With Covid Around How Should I 'Live and Let Live'" organized by Department of Mathematics, The Bhawanipur Education Society College, on July 10, 2020
- Participated in a Two-Day Student Webinar On the cutting edge technologies in Computer Science on 26th and 27th August 2020 organized by the Department of Computer Science – The Bhawanipur Education Society College.
- Participated in A Web-Talk on "Deep Learning and Computational Intelligence" on 19th October 2020 organized by the Department of Computer Science – The Bhawanipur Education Society College.
- Participated in A Two-Day WebTalk on Introduction to Cloud Coding with AWS and CloudSim on 5th and 6th July, 2021 organized by the Department of Computer Science – The Bhawanipur Education Society College.
- Participated in "One Day National Seminar on Computational Intelligence and Internet of Things" along with discussions in CU curriculum with the Board of Studies (Computer Science) organized by Bangabashi College and University of Calcutta. 17.
- Organized code-fiesta 2022 (An intercollege coding competition)

Online Certifications

- Completed an online course on 'Crash Course to Learn Python coding from basic beginning' at Udemy.
- Completed an online course on 'Machine Learning & Deep Learning in Python & R' at Udemy.





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Awards / Recognitions

- Ranked 7th in Bsc Honours Course 2013

Special Invitations

- Delivered an invited talk in Bengal Institute of Technology (July 2019) on Pre-placement Aptitude Session.

Other Notable Activities

- Designed many microcontroller based projects coupled with android 5.1.0 in 2017 and other sensors for an exhibition.
- Designed a system to detect whether a person is wearing face mask or not with a student in 2021- 2022, published the work in Coherence (Science section Journal)
- Made a framework; that can mimic human nerve signals. (currently working on it to publish the work)
- Participated a faculty development program on "Research Applications in Artificial Intelligence and Machine Learning" organized by Haldia Institute of Technology in 2021.





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Vision Statement

- Encourage students to work not only in IT based industries but also in the field of chip fabrication and nanotechnology.
- Inspiring free thinking among students, and teach them to be game changers in their chosen professions.
- Inspire the students not only to learn the syllabus but also some practical oriented lessons as application of what they learn.
- Promote the virtues of research and scholarly inquiry, so that students can bring important critical thinking skills to their pursuits, both inside and outside the college.

Signature of the
Faculty Member

Date: 01st September, 2022



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