

Computing Laboratory

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Research of this laboratory starts in the year of 1990 when the Principal Investigator Prof. (Dr.) Jyotsna Kumar Mandal) joined as Lecturer in the department of Computer Science & Application, University of North Bengal.

The first paper of this laboratory was published in the Journal of INSA at 1990. Since then the scholars of the laboratory actively engaged in research in various fields in computing systems.

Being M.Sc. in Physics from Jadavpur University in 1986, M. Tech. in Computer Science from University of Calcutta, he was awarded Ph. D.(Eng.) in Computer Science & Engineering by Jadavpur University in 2000. Presently he is working as Vice Chancellor, Raiganj University and former Dean, Faculty of Engineering, Technology and Management, Kalyani University, Kalyani, Nadia, West Bengal for two consecutive terms (2008-2012). He started his career as lecturer at NERIST, Arunachal Pradesh in Sept., 1988. He has teaching and research experience of 35 years. His area of research is Coding theory, Data and Network Security, Remote Sensing & GIS based Applications, Data Compression, Error correction, Visual Cryptography and steganography. He has produced 29 Ph. D degrees one submitted (2022) and 8 are perusing. He has supervised 3 M. Phil and more than 80 M. Tech. Dissertations and more than 150 MCA projects. Five sponsored projects are completed as PI. Published more than 450 papers in various international journals and conferences out of which 185 papers in international journals. 45 papers published in SCI Journals in last five years with highest impact factor 7.980.

He is life member of Computer Society of India since 1992, CRSI since 2009, ACM since 2012, IEEE since 2013 and Fellow member of IETE since 2012, Ex-Hon. Executive member of CSI Kolkata Chapter, Ex-Vice Chairman (2015-2016). Ex-Hon. Chairman (2016-2017). He is Ex-Secretary, IETE Kolkata Centre during 2018-2020. Ex-Chairman IETE Kolkata Centre during 2020-2022. He has chaired number of sessions in various International Conferences and delivered more than 1000 expert/invited lectures. Attended number of conferences and delivered 4x5 days expert lectures as guest faculty and organized more than 55 National & International Conferences of ELSEVIER, Springer and IEEE during last Five years. He is reviewer of various International Journals and Conferences, since 1994. He is chief editor of various National/International Journals of AIRCC, editors of various National/International Conferences and proceedings.

Contribution for Infrastructure Development

- Expert of AICTE Peer Team for EVC
- Expert of NAAC Peer Team. As member and member Co-ordinator
- Expert for Academic Audit in various institutes.
- Designed and implemented full campus networking consisting of 4Km fibre optic network and 4Km UTP Network at the University of North Bengal during 1998-2000 from the project fund received from UGC (80 Lakhs).
- Initiated to open Department of Engineering & Technological Studies, under Engineering Faculty and two streams of undergraduate studies, Information Technology and Electronics and Instrumentation Engineering as Dean Faculty of Engineering, Technology & Management, and University of Kalyani in 2008.

- Actively involved in infrastructure development, networking, wireless communication between Main campus and Hostel situated at a distance of 2 km from main campus of Kalyani Government Engineering College as Coordinator of TEQIP I in Kalyani Govt. Engg. College, Govt. of West Bengal, during 2006-2007.
- Initiated to open Department of Engineering & Technological Studies, under Engineering, Technology and Management, Faculty and two streams of undergraduate studies, Information Technology and Electronics and Instrumentation Engineering has been started as Dean, Faculty of Engineering, Technology & Management, University of Kalyani during 2008-2010.
- Actively involved in infrastructure development, networking, wireless communication between Main campus and hostels situated at a distance of 2 km from main campus of Kalyani Government Engineering College as Coordinator of TEQIP I in Kalyani Govt. Engg. College, Govt. of West Bengal, during 2006-2007.
- Domain Expert member of Uttarbanga Krishi Viswavidyalaya nominated by ICAR, Govt. of India for planning, designing and implementation of networking and internetworking of Uttarbanga Krishi Viswavidyalaya campus, Coochbehar during my tenure as Head, Department of Computer Science & Application, University of North Bengal during 2002-2004.
- Domain Expert member of West Bengal University of Animal and Husbandry, Belgachia for designing and implementation of Video Conferencing labs at Belgachia Campus and Haringhata Campus during 2009-10.
- As Chairman of Center for Information Resource Management, University of Kalyani, implemented wireless connectivity between Central Park and Main Campus of the University of Kalyani
- Implemented web based Remote Library Resource Access at the University of Kalyani as Chairman, CIRM

Scholars Achievements:

- Rajeev Chatterjee, Research Scholar working under my supervision attended IEEE and IFIP International Conference ICISCT 2016 at Tashkent University of Information Technologies (TUIT), Tashkent Uzbekistan, during 2nd, 3rd and 4th of November 2016 and presented the paper entitled: " A Novel Learning Object Framework for Confidence Based Learning".
- Rajeev Chatterjee, Research Scholar working under the supervision attended IEEE and IFIP International Conference ICISCT 2016 at Tashkent University of Information Technologies (TUIT), Tashkent Uzbekistan, during 2nd, 3rd and 4th of November 2016 and deliver his invited talk entitled "Confidence Based Learning – A new horizon in Learning Technology in plenary session
- M Marjit Singh, presented a paper entitled "Effect of Black Hole Attack on MANET Reliability in DSR Routing Protocol", in 10th International Conference on Advanced Computing & Communication Technologies (10th ICACCT 2016), 18-20 November 2016 at Asia Pacific Institute of Information Technology, Panipat, Haryana, India and awarded "Best Paper Award".
- Rajeev Chatterjee, Research Scholar working under my supervision went Bangkok to present the paper "Two dimensional Assessment Technique in CBL" in IEEE Teaching, Assessment, and Learning in Engineering Conference (TALE 2016) at Bangkok, THAILAND, during 7th – 9th December 2017 at King Mongkut's University of Technology, North Bangkok

Awards received:

- Awarded A. M. Bose Memorial Silver medal for securing highest marks in the paper “Nuclear Physics and Cosmic Rays” at M. Sc., Jadavpur University, Kolkata, India
- Awarded Kali Prasanna Dasgupta Memorial Silver medal for securing highest marks in the paper “Nuclear Physics and Cosmic Rays” at M. Sc., Jadavpur University, Kolkata, India
- India International Friendship Society (IIFS) New Delhi conferred “Bharat Jyoti Award” for meritorious services, outstanding performances and remarkable role in the field of Computer Science & Engineering on 29th August, 2012.
- The International Publishing House, Delhi, India conferred “The Best Citizen of India Award 2012” in November 2012.
- Biography in Marquis Who’s Who in the World 2014(31st Edition), USA (published in November 2013)
- Chapter Patron Award, CSI Kolkata Chapter, 2014 conferred in CSI Annual Convention, JNTU, Hyderabad during 14-16 December, 2014.
- Vidyasagar Award, International Society for Science Technology and management in the fifth International Conference on Computing, Communication and Sensor Network, on 25th December, 2016 at Hotel Golden Park, Kolkata
- Rastriya Pratibha Award, 2017, Indo Socio Development Association, Delhi
- Siksha Ratna award,2018, Department of Higher Education, Government of West Bengal