

Education

- Doctor of Philosophy (PhD), Jadavpur University
Thesis Title: Impact of educational software on learning outcome in secondary school children
- Master of Science (MSc) in Economics, Calcutta University
Special paper: Monetary Economics; Optional paper: Operations Research

Broad Area of Expertise:

- Rural and tribal child education
- Education technology
- Instructional design
- Pedagogy
- Technology enhanced education (TEL)
- Development of computer aided learning tools
- Environmental Education
- Economics and society (Focus on Women and other marginalized sections)

Academic and professional career:

Academic career :

- Bachelor of Science (BSc) in Economics(H), Mathematics, Political Science(P)
Calcutta University, West Bengal, India
- Master of Science (MSc) in Economics, Calcutta University, West Bengal, India
- Ph.D in Thesis : Impact of educational software on learning outcome in secondary school children, Jadavpur University, West Bengal, India

Professional career:

- 2017-present** - Research Consultant, Teaching Learning Centre (TLC) at Birla Institute of Technology and Science (BITS) Pilani, Pilani campus
 - Offering an online course on “Outcome based pedagogic principles for effective teaching” as MOOC online course jointly (with IIT Kharagpur)
 - Recourse Person in Faculty Development Programme
 - Vice President in ASMA (NGO)
- 2013 – 2017** - Research Project Manager, Centre for Educational Technology (CET), IIT Kharagpur, Project: Developing suitable pedagogical methods for

various classes, intellectual caliber and research in e-learning – Main Phase, NMEICT, MHRD

- Secretary in ASMA (NGO)
- Recourse Person in faculty Development Programme (More than 100 Colleges) organized by IIT Kharagpur and various TEQIP funded colleges

2003 – 2013 - Project Officer, Media Lab Asia, IIT Kharagpur
Project: Samvidha - Low Cost Internet Access and Content personalization for Rural School Worked at: Computer Science & Engineering Dept., IIT Kharagpur

Publications

1. Students' Perspective of the Sudden Shift from Traditional Classroom to Online Teaching Mode Under COVID-19 Situation: A Case Study: T Bhattacharyya, SK Jha, B Roy, P Banerjee 2022 Available at SSRN 4027467
2. Active Learning in Higher Education by SOLO Taxonomy B Roy, T Bhattacharyya, P Banerjee: 2022 Available at SSRN 4022499
3. Incorporating Experiential and Collaborative Learning into Instructional Design of Solar Energy Related Course—A Social Experiential Approach, January 2020: Manoj Kumar Soni and Tamali Bhattacharya

Book: Enhancing Future Skills and Entrepreneurship. Sustainable Production, Life Cycle Engineering and Management. Publisher: Springer, Cham
4. Design and Development of Game Based Evaluation and Learning (GABEL) for Applied Thermodynamics course for Active Learning: Manoj Kumar Soni and Tamali Bhattacharya International Conference on Industrial Engineering and Operations Management (IEOM) Bangkok, Thailand, March 5-7, 2019 (SCOPUS)
5. Analysis of Course Content Development using Pedagogic Framework - A Case Study Manoj Kumar Soni , Tamali Bhattacharyya and Bani Bhattacharya, International Conference on Industrial Engineering and Operations Management (IEOM) Bangkok, Thailand, March 5-7, 2019 (SCOPUS)
6. Improving the quality of Technical Education using Pedagogical Instructional System Design: Tamali Bhattacharyya (Future of learning Conference, Learning 4.0: Connecting the Dots; reaching the Unreached, January 4 -5, 2019, IIM Bangalore)
7. Perceived Benefit of XMOOCs in Knowledge Enhancement and Impact on Career Development: a Mixed-Method Study: Pratyush Banerjee, Tamali Bhattacharyya (IKMAP 1st -2nd November, 2018, Zhejiang University, Hangzhou, China)
8. Tamali Bhattacharyya and Bani Bhattacharya, Transition of learners from lower to higher Qualitative Outcome of Learning through the use of different learning tools, in : Proceeding of The 2015 International Conference on Socio- Cultural Relationship and Education Pedagogy Learning Sciences (SOCIO-CULTURAL 2015), Bali, 80363 Indonesia, pp 14-20, January 2015

9. Tamali Bhattacharyya, Rajendra Prasath, and Bani Bhattacharya, Qualitative Learning Outcome through Computer Assisted Instructions, in: Proceedings of the First International Conference on Mining Intelligence and Knowledge Exploration (MIKE 2013), Lecture Notes in Artificial Intelligence (LNAI), Tamil Nadu, India vol. 8284, pp. 567-578, 20139 (Springer)
10. Tamali Bhattacharyya and B. Bhattacharya, Effect of Instructional System Design on Transformation of Learning Approaches, *IEEE International Conf on Technology for Education*, T4E 2013 IIT Kharagpur, December, 2013.
11. Tamali Bhattacharyya, B. Bhattacharya, and T. Mitra, Impact of SOLO Taxonomy in Computer Aided Instruction to Qualitative Outcome of Learning for Secondary School Children, *IEEE International Conf on Technology for Education*, Hyderabad T4E 2012, July, 2012 (SCOPUS)
12. A. Basu, S. Chakraborty, Tamali Bhattacharyya, The Role of Multimedia Software for Teaching English to the Rural Children: Experience in West Bengal, *All-India Conference on Multimedia Enhanced Language Teaching-MELT*. November, 2009.
13. S. Chakraborty, Tamali Bhattacharyya, P.K. Bhowmick, S.Sarkar and A. Basu, Shikshak: An Intelligent Tutoring System Authoring Tool for Rural Education, *Proc. of 2nd IEEE/ACM International Conference on Information and Communication Technologies and Development*, Bangalore, December, 2007.
14. Tamali Bhattacharyya, S. Chakraborty, A. Basu, Learning the basics of programming Language C by adopting intelligent tutoring system with different learning styles, *TELearn2008 Conference*, Hanoi, Vietnam, December, 2007
15. A. Mukherjee, T. Bhattacharyya, K. Chakraborty and A. Basu, An Intelligent Tutoring System in Promotion of BANGLA Literacy in the Rural Scenario, *National Conference on Computer Processing of Bangla*, Dhaka, Bangladesh, 2005.
16. A. Basu, S. Bhattacharya, S. Chakraborty and Tamali Bhattacharyya, Computer Based Education and Communication Systems for People with Multiple Disabilities, *Proc. of the Conference on Multiple Disabilities*, NIMH, Hyderabad, India, 2004.

Projects

1. Title : Developing suitable pedagogical methods for various classes, intellectual calibres and research in e-learning - Main Phase
Amount : Rs 16 Crore
Funding : MHRD
Position : Research Project Manager
Activities : Developed framework to systematically design and develop learner-centric curricula, suitable for outcome-based learning
2. Title : Project for Development of Contents in English for Class VII and VIII
Amount : Rs 5.5 L
Funding : Society for Natural Language Technology Research (SNLTR), Kolkata

- Position : Principal Investigator (ASMA)
Activities : Developed multimedia content in English for Class VII and VIII,
West Bengal Board Syllabus
2. Title : Project for Development of Contents in English for Class V and VI
Amount : Rs 4.0 L
Funding : Society for Natural Language Technology Research (SNLTR), Kolkata
Position : Principal Investigator (ASMA)
Activities : Developed multimedia content in English for Class V and VI,
West Bengal Board Syllabus
3. Title : Development of Training Software for Process Training towards
Sabai Grass based Product Development.
Amount : Rs 0.75 L
Funding : Rural Technology Action Group (RuTAG) - Eastern India, IIT Kharagpur
Position : Co Principal Investigator (ASMA)
Activities : Developed multimedia based educational software to demonstrate the
use of sabai grass for value addition to the local community.