

**Sayani Sen**

**DESIGNATION**

State Aided College Teacher

Department of Computer Application



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**Biography**

I am currently working as a State Aided College Teacher in the Department of Computer Application at Sarojini Naidu College for Women. I am working in this college, as a Guest Lecturer in the Department of Computer Application (Major) from January 2015 and as a College Full-Time Lecturer in the Department of Computer Application (Major) from July 2015. My total teaching experience is 8 years 6 months. I have served as Internal and External Examiners in UG level examinations for West Bengal State University and also acted as a question paper setter for WBSU from 2015. I have come across a NAAC Visit to our college November 2015.

Before starting my teaching career, I completed my M.Tech in CSE (Computer Science and Engineering) from University of Kalyani in 2015. I have completed my M.Sc. in Computer Science from St. Xavier's College(Autonomous), Kolkata under University of Calcutta in 2013 .

I have completed my B.SC( Hons.) in Computer Science in the year 2011 and was awarded by the former Governor of West Bengal His Excellency Shri M.K .Narayanan for standing First-Class-First from University of Kalyani .

During my M.Sc and M.Tech I have worked on Image Encryption and Steganography and published three Conference Papers in International Conferences in collaboration with ISI (Indian Statistical Institute).

Currently, I am working on my Research fields for my Ph.D. from MAKAUT( Maulana Abul Kalam Azad University of Technology).

**Research**

My research activities are in the area of Internet of Things. More precisely, my interesting fields are:

**Teaching**

Currently, I am teaching the following courses in the Department of BCA and Computer Science.

1. Computer Fundamental  
(Code: CMAACOR02T)
2. Programming Fundamental using C  
(Code: CMAACOR01T, CMAACOR01P)
3. Computer System Architecture  
(Code: CMAACOR04T)
4. Multimedia Systems and Applications  
(Code: CMAACOR08T, CMAGCOR04T, CMAGCOR04P)
5. Database Management Systems  
(Code: CMAACOR05T, CMAGCOR02T, CMAGCOR02P)
6. Discrete Structure  
(Code: CMAACOR07T)
7. Operating System  
(Code: CMSACOR06T, CMSACOR06P)
8. Computer Network and Internet Technologies  
(Code: CMAGCOR03P)
9. Software Engineering  
(Code: CMAGDSE04T)
10. Artificial Intelligence  
(Code: CMAACOR11T and CMAACOR11P)
11. Theory of Computation  
(Code: CMAACOR14T)
12. Design and Analysis of Algorithm  
(Code: CMAACOR13T)

Previously I have also taught C programming language, C++ programming language, Networking, Automata Theory, Visual Basic 6.0, Prolog- Artificial Intelligence in the B.Sc. CMAV (Major) Degree Course.

- IoV(Internet of Vehicles)
- VANET
- Wireless Sensor Network
- Remote Healthcare

## Conference Proceedings

1. A Non Adaptive Partial Encryption of Grayscale Images Based on Chaos, Published by Science Direct, Elsevier (Procedia Technology).

Authors : Sukalyan Som, Sayani Sen

Link: <http://www.sciencedirect.com/science/journal/22120173/10>

Published in Procedia Technology, Elsevier, Science Direct in the First International Conference on Computational Intelligence: Modeling, Techniques and Applications (CIMTA-2013) held at Dept of CSE, University of Kalyani on 27th-28th September, 2013.

2. A No Reference Image Authentication Scheme Based On Digital Watermark;, Published by Springer

Authors : Sukalyan Som, Suman Mahapatra, Sayani Sen

Link: [http://link.springer.com/chapter/10.1007/978-81-322-2250-7\\_74/](http://link.springer.com/chapter/10.1007/978-81-322-2250-7_74/)

Published in Springer in the Second International Conference on INformation systems Design and Intelligent Applications (INDIA-2015) held at Dept of CSE, University of Kalyani on 8th-9th January 2015.

3. A Selective Bitplane Based Encryption of Grayscale Images with Tamper Detection, Localization and Recovery Based on Watermark, Published by Springer. Authors : Sukalyan Som, Sayani Sen, Suman Mahapatra, Sarbani Palit

Link: [http://link.springer.com/chapter/10.1007/978-81-322-2250-7\\_79/](http://link.springer.com/chapter/10.1007/978-81-322-2250-7_79/)

Published in Springer in the Second International Conference on INformation systems Design and Intelligent Applications (INDIA-2015) held at Dept of CSE, University of Kalyani on 8th- 9th January, 2015.

## Book Chapters

1. Sayani Sen, Sathi Roy, Suparna Biswas, Chandreyee Chowdhury, " Security- and Privacy Aware Computing in Cloud With User Mobility: An Extensive Review ", Modern Principles, Practices, and Algorithms for Cloud Security, IGI Global, September 2019.

DOI:10.4018/978-1-7998-1082-7

ISBN: 9781799810827

Link: <https://www.igi-global.com/book/modern-principles-practices-algorithms-cloud/230988>

2. Ramesh Saha, Sayani Sen, Jayita Saha, Asmita Nandy, Suparna Biswas, Chandreyee Chowdhury , “ Ontology based intelligent decision support systems: a systematic approach ”, Book chapter in Book “Web Semantics – Cutting Edge and Future Directions in Health Care “, Web Semantics (WS 2020), Published in Science Direct, Elsevier in 2021.

DOI: 10.1016/B978-0-12-822468-7.00005-5,

ISBN: 978-0-12-822468-7

Link : <https://www.sciencedirect.com/science/article/pii/B9780128224687000055>

3. Tumpa Pal, Ramesh Saha, Sayani Sen, Sohail Saif and Suparna Biswas,” Architecture for Smart Healthcare: Cloud vs Edge ” ITSH 2020 (Internet of Things Based Smart Healthcare) ,Pg -23-48 in the book Smart Computing and Intelligence ,in Springer 2022.

DOI: 10.1007/978-981-19-1408-9\_2

ISBN : 978-981-19-1407-2

ISSN : 2522-0896 (electronic),

ISBN : 978-981-19-1408-9 (eBook)

Link: [https://link.springer.com/content/pdf/10.1007/978-981-19-1408-9\\_2](https://link.springer.com/content/pdf/10.1007/978-981-19-1408-9_2)

## **Administrative**

1. A Member of Placement Cell
2. I have done a Faculty Development Program for the Course on Campus to Corporate organized by TATA CONSULTANCY SERVICES ,January 2016
3. I have been appointed as a ” TCS Certified Facilitator ” in the college for the Campus to Corporate Recruitment Programme from February 2016 to till date