

**Dr. RAJDEEP CHAKRABORTY**

*To become a successful academican cum researcher in Cryptography, Network Security, Cyber Security, Blockchain Technology, IoT, FPGA, Light-Fidelity (LiFi) based networking, and allied fields through hard work and dedication*



**Contact Info**

<b>Office Address</b>	Associate Professor, Department of CSE, Room No. 202, Block V, Medi-Caps University, A.B. Road, Pigdamber, Rau, Indore - 453331, Madhya Pradesh, India.		
<b>Contact Address</b>	Flat no. 103, Building no. B10 Flax, Treasure Fantasy Township, Adjoining Main Gate, Near Surya Mandir, Rau-CAT Road, Indore-452013, Madhya Pradesh, India.		
<b>Residential/Permanent Address</b>	Flat No. B1, Tara Ma Apartment, 414-Uttar Sreepur, Lakepally, P.O. Boral, P.S. Sonarpur, KOLKATA, South 24 Parganas, West Bengal, PIN 700154, INDIA		
<b>Contact Numbers</b>	<b>Mobile</b> → +91-9836825426 / +91-9330629013 <b>Other</b> → +91-9830416587	<b>Emails</b>	rajdeep_chak@yahoo.co.in rajdeep.chak@gmail.com rajdeep.chak@ieee.org rajdeep.research@gmail.com

**Personal Particulars**

<b>Date of Birth:</b>	23 <sup>rd</sup> August 1978	<b>Nationality:</b>	INDIAN	<b>Marital Status:</b>	Married	<b>Present Employment:</b>	YES
<b>Gender:</b>	Male	<b>Religion:</b>	Hinduism	<b>Mother Tongue:</b>	Bengali	<b>Indian Passport:</b>	Yes
<b>Skype &amp; Microsoft A/C:</b>	<a href="#">rchakrab</a> <a href="#">orty532</a> <a href="#">@outlook.com</a>	<b>Social profiles:</b>	Facebook, ResearchGate, YouTube, LinkedIn and Twitter			<b>IIT-Bombay Moodle A/C</b>	rajd23733
						<b>NPTEL A/C</b>	rajdeep_chak

**Educational Background**

**Highest Education**

<b>Degree</b>	: Doctor of Philosophy (Ph. D.)	<b>Graduation Date</b>	: 27/July/2016
<b>University</b>	: Dept. of Computer Science and Engineering (CSE), Faculty of Engineering, Technology and Management (FETM), University of Kalyani, Kalyani, West Bengal, India	<b>Located in</b>	: INDIA
<b>Field of Study / Stream</b>	: Computer Science and Engineering (CSE)	<b>Registrati on Number</b>	: Ph.D/Regn/CSE/R C/2007 Ph.D/Re-Regn/CSE/RC/2012
<b>Thesis Title</b>	: An Approach Towards Design and Implementation of Microprocessor and FPGA Based Symmetric Encoder for Embedded System	<b>Major</b>	: <b>Symmetric-Cryptography</b>
<b>Supervisor</b>	: Dr. Jyostna Kumar Mandal, Professor, CSE dept., University of Kalyani, Nadia, West Bengal, India. <a href="http://jkmandal.com">http://jkmandal.com</a>		
<b>Verified By</b>	: World Education Service, Canada and the USA, and Badged by Credly. <a href="https://www.credly.com/badges/021fa821-a429-4499-aa01-f033a57f0690/">https://www.credly.com/badges/021fa821-a429-4499-aa01-f033a57f0690/</a>		

**Second Highest Education**

<b>Degree</b>	: <b>Master of Technology (M. Tech)</b>	<b>Graduation Date</b>	: 04/December/2004
<b>College and University</b>	: Sikkim Manipal Institute of Technology, Majitar, Sikkim, India <b>Under</b> Sikkim Manipal University of Health, Medical and Technological Sciences, Gangtok, Sikkim, India.	<b>Located in</b>	: INDIA
<b>Field of Study/Stream</b>	: Information Technology (IT)	<b>Registration Number</b>	: 200224001
<b>Grade and Score</b>	: 1 <sup>st</sup> class, 71.7%, 2007/2800	<b>Major</b>	: <b>Encryption Technology</b>

**Third Highest Education**

<b>Degree</b>	: <b>Bachelor of Engineering (B.E.)</b>	<b>Graduation Date</b>	: 01/June/2002
<b>College and University</b>	: Ajay Binay Institute of Technology, Cuttack, Orissa, India <b>Under</b> Utkal University, Bhubaneswar, Odisha, India.	<b>Located in</b>	: INDIA
<b>Field of Study/Stream</b>	: Computer Science and Engineering (CSE)	<b>Registration Number</b>	: 55587/1998
<b>Grade and Score</b>	: 1 <sup>st</sup> class, 67.5%, 2836/4200	<b>Major</b>	: General and Graphical Programming in C

**School Level Education**

Name of the Examination And School Board	School Name	Standard, Passing Date, and Medium	Subjects	Grade and Score
<b>All India Senior School Certificate Examination (AISSCE)</b> Conducted by Central Board of Secondary Education (CBSE), New Delhi, India	Kendriya Vidyalaya - Coochbehar, West Bengal, India	Class XII 09/June/1998 English	English, Biology, Physics (P), Chemistry (C), Mathematics (M)	71.0% (1 <sup>st</sup> Division) 355/500 PCM → 75.0%
<b>All India Secondary School Examination (AISSE)</b> Conducted by Central Board of Secondary Education (CBSE), New Delhi, India	Kendriya Vidyalaya - Sevoke Road, West Bengal, India	Class X 03/June/1995 English and Hindi	English, Hindi, Science, Mathematics, Social Studies	70.8% (1 <sup>st</sup> Division) 354/500

**Carrier Level Result (From Class X to Master Degree / M. Tech) 70.3%**

### Top Skills

Skills	Project work carried	Proficiency
1. Cryptography and Network Security	Ph.D. Thesis and M. Tech Thesis work	Advanced
2. Symmetric – Key Cryptography	Ph. D. Thesis work	Advanced
3. FPGA – Based System Design	Ph. D. Thesis work	Advanced
4. VHDL programming	Ph. D. Thesis work	Advanced
5. BlockChain Technology	Project and Research	Intermediate
6. C – programming	Mainly in M. Tech Thesis work	Advanced
7. 8085 Microprocessor	Mainly in M. Tech Thesis work	Intermediate
8. CrypTool 1.4.31 Beta 6b (Tool)	Ph. D. Thesis work	Advanced
9. Xilinx ISE 14.2	Ph. D. Thesis Work	Advanced
10. Internet of Things (IoT) with Raspberry Pi	Project and Research	Intermediate
11. Cryptanalysis and Tools with Kali Linux	Project and Research	Intermediate
12. Python Programming	Project and Research	Intermediate
13. Book Proposal writing and Research Proposal Writing	Teaching and Research	Advanced
14. Research Project Team Lead	Project and Research	Advanced

### Professional Information

Categories	Detailed List
1. Total Teaching Experience <b>(18 Years and 8 Months)</b> and Total Part-Time Research Experience <b>(13 years and 8 Months).</b>	Page – IV
2. Total Publications <b>(90 Nos.)</b> , including patents, books, book chapters, international journals, and conferences. The publication summary and analysis are on page V.	Page – V and Annexure – I
3. <b>Citation</b> (Google Scholar – 173, In Scopus Documents – 62, In Web of Science documents – 8) Total documents in h-index – 6 and i-10 index – 3.	Page – V and Annexure – I
4. PhD Scholars <b>(02 Nos.)</b> and M.Tech / Master’s Scholars <b>(18 Nos.)</b>	Annexure – II
5. Academic / Outreach Activities and Projects <b>(105 Nos.)</b> , Editor/reviewer in International Journal <b>(06 nos.)</b> , Keynote address/guest speaker <b>(15 nos.)</b> , E-Contents/MOOCs <b>(05 nos.)</b> , Workshop/FDP coordinator <b>(02 nos.)</b> , Academic Committee member <b>(03 nos.)</b> , Associated with International conferences/Academic events <b>(33 nos.)</b> , Certification <b>(05 nos.)</b> , PG and UG projects by me <b>(02 nos.)</b> , Awards / Recognition / Fellowships <b>(21 nos.)</b> , and Professional Memberships <b>(Continuing and Expired) (13 Nos.)</b> .	Annexure – III
6. Participations in workshops, seminars, conferences, and training <b>(46 nos.)</b>	Annexure – IV
7. Administrative Responsibilities (Other Than Academics, Teaching and Research) <b>(13 Nos.)</b>	Annexure – V

### Human Languages

(0 = Poor , 10 = Excellent)

Languages	Speak	Read	Write
English	08	10	10
Hindi	08	08	05
Bengali	10	08	05

### Academic IDs and Links

**ORCID :** <https://orcid.org/0000-0001-6641-0860>

**Publons/EndNote/Web of Science/Clarivate Analytics:**

<https://www.webofscience.com/wos/author/record/AEL-1624-2022>

**Scopus ID:** <https://www.scopus.com/authid/detail.uri?authorId=22978148400>

**Google Scholar:** <https://scholar.google.com/citations?hl=en&user=S8raNa4AAAAJ>

**Research Gate:** <https://www.researchgate.net/profile/Rajdeep-Chakraborty-3>

**Academia:** <https://independent.academia.edu/RajdeepChakrabortyIndia>

### Salary and Availability

Willing to Relocate	Yes, in India and Abroad
Willing to Travel And Availability	Moderate and from 15 <sup>th</sup> January 2024 (30 days' notice period)
Current CTC	INR 13,80,000/= (Gross per annum) AICTE scale, Associate Professor (at Rs.9000 AGP in PB Rs.37,400-Rs. 67,000).
Expected Monthly Salary	INR 1,45,000/- PM as Professor In UGC/AICTE scale with 7 <sup>th</sup> CPC with AGP 10000/= (negotiable) As per rules of the institution. At Least +30% of Gross

### References

1. Dr. Jyotsna Kumar Mandal, Professor and Ex-Dean, Dept. of CSE, FETM, University of Kalyani, Kalyani, Nadia, West Bengal, PIN - 741235, India. E-mail:- jkm.cse@gmail.com, jkmandal@klyuniv.ac.in, jkmandal@ieee.org, jkmandal@rediffmail.com, mobile:- +91-9434352214, website:- [http://jkmandal.com/JKM\\_New\\_WebSite/home.html](http://jkmandal.com/JKM_New_WebSite/home.html)
2. Mr. Sourav Mahapatra, Assistant Professor, Dept. of IT, Techno India College of Technology, Kolkata, PIN - 700156, West Bengal, India. E-mail:- souravmtech@gmail.com, sourav.mahapatra@tict.edu.in, mobile:- +91-9231563707
3. Dr. Anupam Ghosh, Professor, Dept. of CSE, Netaji Subhash Engineering College, Kolkata, PIN - 700152, West Bengal, India. E-mais:- anupam.ghosh@rediffmail.com, anupam.ghosh@nsec.ac.in, mobile:- +91-9831837936

### Hobby and Extra Curricular Activities

1. Reading books, Net surfing, Playing Chess and Playing Cricket
2. Won some school-level competition in chess.
3. Used to play Tabla in childhood.
- 4. I take cardiac medicines daily, and I need health insurance outside of India**

### Employment History

Institution	Designation	Period	Nature of Duties and Remark	Reason for Leaving
1. Medi-Caps University, A.B. Road, Pigdamber, Rau, Indore - 453331, Madhya Pradesh, India.	Associate Professor, Dept. of Computer Science and Engineering	01/February/2024 To Till Date	Teaching graduate and postgraduate students, mentoring masters' thesis	NA
2. Chandigarh University, NH-05, Ludhiana - Chandigarh State Hwy, Sahibzada Ajit Singh Nagar, Punjab, PIN 140413, INDIA	Associate Professor, Dept. of Computer Science and Engineering, Institute of Engineering	10/August/2022 to 29/January/2024  1 Years and 5 Months	Teaching graduate and postgraduate students and mentoring master's theses, this department obtained NBA (as par Washington Accord) accreditation and NAAC A+ Accreditation of the Institution. NIRF #27 and #38 for Engineering. QS World ranking and #771-780 in QS World University Rankings 2024. Also accredited with ABET, USA, in 2024.	Cold Allergy
3. Netaji Subhash Engineering College (NSEC), Kolkata, West Bengal, PIN 700152, India	Assistant Professor in Dept. of CSE	14/March/2007 to 31 <sup>st</sup> July, 2022  15 years and 4 months	Teaching graduate and postgraduate students, mentoring masters' thesis, This dept. Obtained NBA (as par Washington Accord) accreditation and NAAC B+ Accreditation of the Institution	Better Opportunity as Associate Professor,

4. IMPS College of Engineering and Technology, Malda, Bengal, 732103, India	Lecturer and Dept. in-charge, West Department of IT	01/August/2005 To 13/March/2007 1 years and 8 months	Teaching graduate students and had an extra responsibility as an in-charge of Information Technology (IT) dept.	Better salary and settlement
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<b>Publication Summary (Total publications = 90) (Published and Accepted / To be Published)</b>	
Patent/Copyright/Intellectual Property Right Published & Granted	05
Patents Publications/ Intellectual Property and Policy Document Publication .....	07
Authored and Text Book Publication (other than conferences and journals) .....	04
Edited Book Publication (other than conferences and journals)....	08
Book Chapter Publication (other than conferences and journals)...	08
International Journals .....	17
International Conferences .....	41
<b>Quality Assessment (Published and Accepted / To be Published)</b>	
International Conference cum book chapter .....	09
SCI and SCIE/ CPCI / Web of Science indexed Publications .....	08
SCI / SCIE Index Journals .....	03
Scopus Indexed .....	20
DBLP Indexed .....	03
Google Scholar/ Index Copernicus/ MS and other primary index .....	71
IEEE Xplore publications .....	07
Springer publications .....	12
IEEE organized/sponsored International Conferences .....	15
University Grants Commission (UGC), Govt. of India, Journals	08
Publications with Digital Object Identifier (DOI) label .....	30
As a 1 <sup>st</sup> Author or Editor or Inventor .....	41
<b>Citation Assessment of All Publication</b>	
<b>Google Scholar:</b> Total Citations: 170, h-index: 6 and i10-index: 3	
<b>ResearchGate:</b> Research Interest Score: 76.2, Total Citations: 107 and h-index: 5	
<b>Scopus:</b> 58 citations in 57 Scopus documents, 21 Scopus publications and h-index: in 3 Scopus documents	
<b>Web of Science (WoS) and Clarivate Analytics:</b> Total 29 WoS publications, 7 publications in Core WoS Collections, did 7 reviews in Core WoS Collections, h-index: 2 in Core WoS Collections and 8 citations in 8 WoS core publications	

**Annexure – I**  
**Publications and Citations**

**Patent/Copyright/Intellectual Property Right Published Granted (05)**

1. **Rajdeep Chakraborty**, Abhik Banerjee, Tamoghna Mandal and Bhaskar Dutta, **Utility Patent**, “**DESIGN OF ID-BASED AND ATTRIBUTE-BASED CRYPTOGRAPHY FOR IMPLEMENTATION OF ONLINE VOTING PROTOTYPE USING BLOCKCHAIN**”, Patent No: 530716, Patent Application No-202031041101, Filing Date: 22/September/2020, Journal No. 42/2020, Publication Date: 16/October/2020, Date of Grant: 28/March/2024, **under Intellectual Property India, Govt. of India.**
2. Rana Majumdar, **Rajdeep Chakraborty**, Shilpi Sharma, Darothi Sarkar, Subir Hazra and Nivedita Neogi, **Design Patent**, “Cloud Based Indoor Interactive Kiosk”, Application Number: 412529-001, Cbr Number: 205561, Cbr Date: 04/April/2024, Publication Date: 04/May/2024, **Grant Certificate Issue Date: NA. Under Patent Office, Govt. of India.**
3. Ramesh Chandra Panda, Bhaskar Dutta, **Rajdeep Chakraborty**, Aishwariya Barik and Abhik Benrerjee, **Research Copyright**, “**BLOCK CHAIN BASED EDGE COMPUTING WITH BEHAVIOUR ANALYTICS FOR INDUSTRY 4.0**”, Application Date: 12/December/2020, Registration Number- L-99088/2021, Diary Number: 20434/2020-CO/L, Grant Date: 02/February/2021, **under Copyright Office, Govt. of India.**
4. **Rajdeep Chakraborty**, Rudranil Maity, Uttam Kumar Mondal, Asish Debnath, Abhinandan Sarkar, Hoimanti Dutta and Utpal Nandi, **Design Patent**, “LIGHT FIDELITY (LIFI) BASED DATA TRANSFER DEVICE FOR MOBILE PHONE”, Application Number: 363174-001, Cbr Number:200974, Cbr Date:26/April/2022, Publication Date: 20/June/2022, **Grant Certificate Issue Date: 16/05/2023. Under Patent Office, Govt. of India.**
5. **Rajdeep Chakraborty**, Utpal Nandi, Uttam Kumar Mondal, Hoimanti Dutta, Abhinandan Sarkar, Asish Debnath and Rudranil Maity, **Research Copyright**, “A FIRST APPLICATION (APP) FOR LIGHT FIDELITY (Lifi) ON VISUAL LIGHT COMMUNICATION (VLC) BASED DATA TRANSFER USING FLASH LIGHTS AS SOURCE AND CAMERA AS RECEPTOR FOR ANDROID SMART PHONE”, Application Date: 26/April/2022, Diary Number: 8637/2022-CO/A (**Filed and Published and under re-scrutiny**)

**Patents Publications/ Intellectual Property and Policy Document Publication (07)**

1. Uttam Kumar Mondal, **Rajdeep Chakraborty**, Utpal Ghosh, Bibek Bikash Roy and Abhinandan Sarkar, **Utility Patent**, “**Lightweight Embedding Device Solution for Detecting Stranger at Public Entrance**”, Filing Date: 03/April/2022, Patent Application No- 202231020095, Journal No. 18/2022, Publication Date: 06/May/2022, **under Intellectual Property India, Govt. of India.** Find here with application number: <https://ipindiaservices.gov.in/PublicSearch>
2. Tridibesh Nag, Snehashish Chattopadhyay, Supriyo Das, Subhadeep Chakraborty, Subhradip Biswas, Rajdeep Ghosh, **Rajdeep Chakraborty** and Abhinandan Sarkar, **Utility Patent**, “**Hybrid Solar Powered Charger with Automatic Energy Metering and Smart Features**”, Filing Date: 01/April/2022, Patent Application No- 202231019831, Journal No. 18/2022, Publication Date: 06/May/2022, **under Intellectual Property India, Govt. of India.** Find here with application number: <https://ipindiaservices.gov.in/PublicSearch>
3. Prateek V Shetter, Abhinandan Sarkar, **Rajdeep Chakraborty** and Hoimanti Dutta, **Utility Patent**, “**METHODS AND SYSTEMS FOR DATA COMMUNICATION THROUGH LIFI TECHNOLOGY BY USING FLASH LIGHT AS A SOURCE AND CAMERA AS A RECEIVER OF ANDROID PHONE**”, Filing Date: 13/January/2022, Patent Application No- 202231001994, Journal No. 05/2022, Publication Date: 04/February/2022, **under Intellectual Property India, Govt. of India.** Find here with application number: <https://ipindiaservices.gov.in/PublicSearch>

4. Bhaskar Dutta, Barnita Maity, Abhik Banerjee, **Rajdeep Chakraborty** and Tamoghna Mandal, **Utility Patent, "METHOD AND SYSTEM FOR IMPLEMENTING A SECURE BLOCKCHAIN FRAMEWORK IN AN IOT ENVIRONMENT"**, Filing Date: 02/August/2021, Patent Application No- 202131034673, Journal No. 35/2021, Publication Date: 27/August/2021, **under Intellectual Property India, Govt. of India.** Find here with application number: <https://ipindiaservices.gov.in/PublicSearch>
5. **Rajdeep Chakraborty**, Uttam Kumar Mondal, Utpal Nandi and Asish Debnath, **Utility Patent, "AN APPROACH TOWARDS DESIGN OF COMPLETE LIGHTWEIGHT SECURITY MICRO-ARCHITECTURE FOR IOT AND FPGA SYSTEMS"**, Filing Date: 17/March/2021, Patent Application No-202131011258, Journal No. 15/2021, Publication Date: 09/April/2021, **under Intellectual Property India, Govt. of India.** Find here with application number: <https://ipindiaservices.gov.in/PublicSearch>
6. Ramesh Chandra Panda, **Rajdeep Chakraborty**, et. al., **Utility Patent, "A NOVEL IOT BASED DISINFECTANT SANITIZER TUNNEL AGAINST COVID-19 USING HUMAN DETECTING SENSORS AND END-TO-END SECURITY MODEL"**, Filing Date: 28/09/2020, Patent Application No-202031041923, Journal No. 42/2020, Publication Date: 16/October/2020, **under Intellectual Property India, Govt. of India.** Find here with application number: <https://ipindiaservices.gov.in/PublicSearch>
7. Ramesh Chandra Panda, **Rajdeep Chakraborty**, et. al., **Design Patent, "IoT Based Disinfectant Sanitizer Tunnel for Covid 19"**, Filing Date: 28/August/2020, Patent Application No-333094-001, Publication Date: 11/September/2020, **under Intellectual Property India, Govt. of India.** Find here with application number: <https://ipindiaservices.gov.in/DesignApplicationStatus>

#### **Authored and Text Book Publication (other than conferences and journals) (04)**

1. **Rajdeep Chakraborty**, M. Rahmath, Shamala and Rajeev Kumar, **"Blockchain Technology and Cryptocurrency"**, Published on 25<sup>th</sup> November 2022, by Scientific International Publishing House, India. ISBN: 978-93-5625-567-8, 202 pages. Flipkart Book Store: <https://www.flipkart.com/blockchain-technology-cryptocurrency/p/itmc7c69c4bce141?pid=9789356255678>
2. Harsh Vikram, **Rajdeep Chakraborty**, Devendra Kumar and Mohit Tiwari, **"Cyber Security and Cyber Forensic"**, Published on 10<sup>th</sup> December 2022 by Scientific International Publishing House, India. ISBN: 978-93-5625-544-9, 288 pages. Flipkart Book Store: <https://www.flipkart.com/cyber-security-forensics/p/itmaedadcba1f769>
3. Mehul P. Barot, Sreenivas P, **Rajdeep Chakraborty** and M. Pavitra, **"Foundation of Artificial Intelligence and Expert System"**, Published on December 2022, 250 Pages, Published by Alpha International Publication (AIP), India. ISBN: 978-93-95405-97-3, 10<sup>th</sup> December 2022. Flipkart Book Store: <https://www.flipkart.com/foundations-artificial-intelligence-expert-systems/p/itm8d527ff4999d9>
4. **Rajdeep Chakraborty** and Jyotsna Kumar Mandal, **"Handbook on Hardware Cryptography – Algorithms and Analysis"**, published on 19<sup>th</sup> June, 2018, published by LAP LAMBERT Academic Publishing, HQ Latvia, European Union, 212 pages hardcover, ISBN-13: 978-613-9-84165-3, ISBN-10: 6139841658. 1<sup>st</sup> Link of the book: <https://www.morebooks.de/store/gb/book/hand-book-on-hardware-cryptography-algorithms-and-analysis/isbn/978-613-9-84165-3> . Amazon book store: <https://www.amazon.com/Hand-Book-Hardware-Cryptography-Algorithms/dp/6139841658>.

#### **Edited Book Publication (other than conferences and journals) (08)**

1. **Rajdeep Chakraborty**, Anupam Ghosh, Jyotsna Kumar Mandal, Tanupriya Choudhury and Prasenjit Chatterjee, "Smart Edge Computing: An Operation Research Perspective", published by ISTE Publishing, London, UK and ISTE-Wiley Imprint, USA, Publication Date: 29<sup>th</sup> February 2024, Print ISBN: 9781786308634, Online ISBN: 9781394277599, DOI:10.1002/9781394277599 and

272 pages hardcover. Book Links: <https://www.iste.co.uk/book.php?id=2105> and <https://www.wiley.com/en-in/Smart+Edge+Computing%3A+An+Operation+Research+Perspective-p-9781394277582>

2. **Rajdeep Chakraborty**, Anupam Ghosh, JK Mandal and S. Balamurugan, "Convergence of Deep Learning in Cyber-IoT Systems and Security", Published by Scrivener Publishing, Wiley Imprint, USA, Publication Date: 21st December, 2022, Print ISBN: 978-1-119-85721-1, Online ISBN: 9781119857686, DOI: 10.1002/9781119857686 and 480 pages hardcover, This book is under book series "Artificial Intelligence and Soft Computing for Industrial Transformation". <https://www.scrivenerpublishing.com/series.php?id=Artificial%20Intelligence%20and%20Soft%20Computing%20for%20Industrial%20Transformation>, **Scopus Indexed Series, Webpage:** <https://onlinelibrary.wiley.com/doi/book/10.1002/9781119857686>
3. **Rajdeep Chakraborty**, Anupam Ghosh, Valentina Emilia Balas and Ahmed A. Elngar, "Blockchain: Principles and Applications in IoT", published by CRC Press, Taylor & Francis Group, USA, Publication Date: 28<sup>th</sup> September 2022, Print ISBN: 978-1032068060, Online ISBN: 9781003203957, DOI: <https://doi.org/10.1201/9781003203957> and 316 pages hardcover. <https://www.taylorfrancis.com/books/edit/10.1201/9781003203957/blockchain-rajdeep-chakraborty-anupam-ghosh-valentina-emilia-balas-ahmed-elngar>
4. **Rajdeep Chakraborty**, Anupam Ghosh and JK Mandal, "Machine Learning Techniques and Analytics for Cloud Security", published by Scrivener Publishing, Wiley Imprint, USA, Publication Date: 21<sup>st</sup> December, 2021, Print ISBN: 9781119762256, Online ISBN: 9781119764113, DOI: 10.1002/9781119764113 and 480 pages hardcover, This book is under book series "Advances In Learning Analytics For Intelligent Cloud-IoT Systems", <https://scrivenerpublishing.com/series.php?id=Advances%20in%20Learning%20Analytics%20for%20Intelligent%20Cloud-IoT%20Systems> , **Scopus Indexed (2020-Present)**, <https://onlinelibrary.wiley.com/doi/book/10.1002/9781119764113>
5. Chandan Banerjee, Anupam Ghosh, **Rajdeep Chakraborty** and Ahmed A. Elngar, "Fog Computing for Intelligent Cloud-IoT System", to be Published by Scrivener Publishing, Wiley Imprint, USA, Agreement Made on 17<sup>th</sup> June, 2022. <https://sites.google.com/view/fcicis2022/home> and to be published under **Scopus Indexed Series**, ADVANCES IN LEARNING ANALYTICS FOR INTELLIGENT CLOUD-IOT SYSTEMS, <https://scrivenerpublishing.com/series.php?id=Advances%20in%20Learning%20Analytics%20for%20Intelligent%20Cloud-IoT%20Systems> (**Submitted to Publisher**)
6. Aleem Ali, **Rajdeep Chakraborty** and Nawaf R. Alharbe, "Artificial Intelligence and Optimizing Techniques for Smart Information System Generations", **Accepted on 15<sup>th</sup> September, 2023 and by CRC Press**, Taylor & Francis Group, LLC, 2385 Executive Center Drive, Suite 320, Boca Raton, FL 33431, U.S.A. DocuSign Envelope ID: 4DEB77EB-14CF-4D0C-BCD7-EE2E5C6D766B.
7. Partha Ghosh, **Rajdeep Chakraborty**, Anupam Ghosh and Ahmed A. Elngar, "**Intrusion Detection Paradigm for Cloud-IoT Environments**", to be Published by Scrivener Publishing, Wiley Imprint, USA, Agreement Made on 8th May, 2024.
8. Rajdeep Chakraborty, Rana Majumdar, S. Balamurugan and Sheng-Lung Peng, "**TinyML: Fundamentals, Challenges and Applications**", to be Published by Scrivener Publishing, Wiley Imprint, USA, Agreement Made on 23rd May, 2024.

#### **Book Chapter Publication (other than conferences and journals) (08)**

1. Malabika Das, **Rajdeep Chakraborty**, Chandan Banerjee, "ID-Based Cryptography and Attribute-Based Cryptography: An Applied Mathematics Perspective", **Chapter 19 in** "Intelligent Engineering Applications and Applied Sciences for Sustainability", edited by Brojo Kishore Mishra and Published by IGI Global, USA. DOI: 10.4018/979-8-3693-0044-2.ch019, ISBN13: 9798369300442, pp – 367 – 378 and published on August 2023. **Scopus Indexed**
2. **Rajdeep Chakraborty**, Sohini Roy and Arun Sarkar, "Intuitionistic Fuzzy Stream Cipher for Protecting Second Layer Lightning Network Transactions in Blockchain", **Chapter 6 in** "Computational Intelligence for Sustainable Development", edited by Brojo Kishore Mishra and



Published by Nova Science Publication, Inc., USA. DOI: <https://doi.org/10.52305/GYYT9161> , ISBN: 979-8-88697-198-9, pp – 121 – 153 and published on November 17th, 2022.

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15. **Rajdeep Chakraborty** and Runa Chatterjee, "IoT-based Secure Blockchain framework for Patient Record Management using MPRESENT Lightweight Block cipher", **Published at** 7<sup>th</sup> INTERNATIONAL CONFERENCE ON EMERGING APPLICATIONS OF INFORMATION TECHNOLOGY (EAIT 2022), MARCH 30 - 31, 2022, published by Springer Nature book series "Lecture Notes in the Network and Systems", e-ISSN: 2367-3389, p-ISSN: 2367-3370. Book p-ISBN: 978-981-19-5190-9, e-ISBN: 978-981-19-5191-6, Book DoI: <https://doi.org/10.1007/978-981-19-5191-6>, Chapter DoI: [https://doi.org/10.1007/978-981-19-5191-6\\_28](https://doi.org/10.1007/978-981-19-5191-6_28), PP - 339 – 354. **Indexed in SCImago, Scopus, INSPEC and others.** Published on 25 April 2023. **Conference cum Book Chapter.**
16. Arun Sarkar, **Rajdeep Chakraborty** and Malabika Das, "Intuitionistic Fuzzy Stream Cipher for Privacy Preservation of Biometric Data in IoMT", **Published at** 7<sup>th</sup> INTERNATIONAL CONFERENCE ON EMERGING APPLICATIONS OF INFORMATION TECHNOLOGY (EAIT 2022), MARCH 30 - 31, 2022, published by Springer Nature book series "Lecture Notes in the Network and Systems", e-ISSN: 2367-3389, p-ISSN: 2367-3370. Book p-ISBN: 978-981-19-5190-9, e-ISBN: 978-981-19-5191-6, Book DoI: <https://doi.org/10.1007/978-981-19-5191-6>, Chapter DoI: [https://doi.org/10.1007/978-981-19-5191-6\\_43](https://doi.org/10.1007/978-981-19-5191-6_43), PP - 539-549. **Indexed in SCImago, Scopus, INSPEC and others.** Published on 25 April 2023. **Conference cum Book Chapter.**
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Management & Commerce, Srinivas University, Mangalore, India & held in Online Mode on 16th December, 2021, published by New Delhi Publishers, India, **Chapter 9** in "Latest Aspects, Issues and Concern in Commerce, Business & ICT: Towards Developing Digital Economy", ISBN: 978-93-93878-56-4, pp – 131 – 141. **Conference cum Book Chapter.**

19. Hoimanti Dutta, **Rajdeep Chakraborty** and Abhinandan Sarkar, "An Approach Towards Near-Field Communication (NFC) with Light Fidelity (Li-Fi)", **Accepted at** International Conference on "Current Research in Engineering and Technology (ICCRET-2021)", organized by Department of Computer Science & Engineering, Brainware University, in association with Institution's Innovation Cell (IIC) and technically sponsored by CSI, BWU student Chapter during November 26 – 27, 2021 and **Published at** Brainwave: A Multidisciplinary Journal, Vol. 3, Special Issue, March, 2022, ISSN: 2582-659X, pp. 12-17, Journal Link: <https://www.brainwareuniversity.ac.in/brainwave/current-issue.php> and Vol. 3, Special Issue, March, 2022, Content Link: [https://drive.google.com/file/d/1TMp-zP2fF\\_swX\\_aICAKo-b2yKtun0FRx/view](https://drive.google.com/file/d/1TMp-zP2fF_swX_aICAKo-b2yKtun0FRx/view) (**Conference cum Journal Special Issue**)
20. Malabika Das and **Rajdeep Chakraborty**, "A Study of Public Key Cryptography Based Signature Algorithms", **Accepted at** International Conference on "Current Research in Engineering and Technology (ICCRET-2021)", organized by Department of Computer Science & Engineering, Brainware University, in association with Institution's Innovation Cell (IIC) and technically sponsored by CSI, BWU student Chapter during November 26 – 27, 2021 and **Published at** Brainwave: A Multidisciplinary Journal, Vol. 3, Special Issue, March, 2022, ISSN: 2582-659X, pp. 104-111, Journal Link: <https://www.brainwareuniversity.ac.in/brainwave/current-issue.php> and Vol. 3, Special Issue, March, 2022, Content Link: [https://drive.google.com/file/d/1TMp-zP2fF\\_swX\\_aICAKo-b2yKtun0FRx/view](https://drive.google.com/file/d/1TMp-zP2fF_swX_aICAKo-b2yKtun0FRx/view) (**Conference cum Journal Special Issue**)
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23. Priyanka Ghosh and **Rajdeep Chakraborty**, "Recent Trends in Authentications for IoT Security Using Zero Knowledge Proof Algorithm", **Accepted at** International Conference on Recent Innovations in Computer and Communication (**ICRICC-2021**), held on 9th August 2021, Organized by Department of Computer Science and Engineering, Rohini College of Engineering and Technology, Tamil Nadu, India, **In Collaboration with ISMASI, Azteca University, Mexico, North America.**
24. Ramesh Chandra Panda, **Rajdeep Chakraborty**, Tanupriya Choudhury, Mathivanan KE and Sudeshna Chakraborty, "Human Detecting Sensors and End-To-End Security Model for Design and Manufacturing of IoT Based Disinfectant Sanitizer Tunnel: An Innovation Against Covid-19", **Published and Presented** in On line International Conference on Innovations in Cyber Physical Systems (**ICICPS 2020**) held on October 22 - 23, 2020, held at and by HMR Institute of Technology & Management, New Delhi, India. Chapter 34 in Book Title "Innovations in Cyber Physical Systems", eBook ISBN 978-981-16-4149-7, Hardcover ISBN 978-981-16-4148-0, Series ISSN 1876-1100, p-ISSN 1876-1100, e-ISSN 1876-1119, DoI of Book: <https://doi.org/10.1007/978-981-16-4149-7> DoI of Paper: [https://doi.org/10.1007/978-981-16-4149-7\\_34](https://doi.org/10.1007/978-981-16-4149-7_34), pp. 381 – 390, **Conference cum Book Chapter. Scopus Indexed.**

25. Runa Chatterjee and **Rajdeep Chakraborty**, "A Modified Lightweight PRESENT Cipher For IoT Security", **Published and Presented** in 2020 International Conference on Computer Science, Engineering and Applications (**ICCSEA 2020**) under IEEE Kolkata Section having conference record #49143, held on 13<sup>th</sup> – 14<sup>th</sup> March, 2020, at and organized by Department of Computer Science and Engineering, GIET University, Gunupur, India. published at IEEE Xplore with DOI: 10.1109/ICCSEA49143.2020.9132950, e-ISBN:978-1-7281-5830-3, ISBN:978-1-7281-5831-0, pp. 1-6. **Scopus Indexed**
26. Debajyoti Guha, **Rajdeep Chakraborty** and J.K. Mandal, "Rotational Cryptographic Technique (RCT)", **Published** in 1st International Conference on Innovation in Modern Science and Technology (**ICIMSAT-2019**), held on **September 20th-21st, 2019**, organized by Siliguri Institute of Technology, Siliguri, Darjeeling, West Bengal, India and sponsored by Springer, The Institution of Engineering and Technology (IET), Soft Computing Research Society, Electrical Engineering Society, ACDOS, published in Springer LAIS series, with DOI: [https://doi.org/10.1007/978-3-030-42363-6\\_18](https://doi.org/10.1007/978-3-030-42363-6_18), pp 150 – 156, ISSN: 2662-3447, e-ISSN: 2662-3455, ISBN: 978-3-030-42362-9, e-ISBN: 978-3-030-42363-6, indexed in SCIMago, **Conference cum Book Chapter.**
27. Runa Chatterjee, **Rajdeep Chakraborty** and JK Mandal, "Design of Cryptographic model for End-to-End Encryption in FPGA based systems", **Published and Presented** in 3rd International Conference on Computing Methodologies and Communication (**ICCMC 2019**), held on **27 – 29, March 2019**, Surya Engineering College, Erode, Tamil Nadu, India Organized and sponsored by IEEE, Indexed by IEEE Xplore ISBN: 978-1-5386-7807-7 with DOI: 10.1109/ICCMC.2019.8819761, pp 459-465. **Web of Science and Scopus Indexed**
28. Debajyoti Guha and **Rajdeep Chakraborty**, "An Approach towards Design and Analysis of a Non Contiguous Block Cipher based Cryptographic System using Modular Arithmetic Technique (NCBMAT)", **Published** in Second International Conference on Computational Intelligence, Communications and Business Analytics (**CICBA-2018**), held on **July 27 – 28, 2018**, Kalyani, W.B., India organized and sponsored by Kalyani Govt. Engineering College, India, IEEE, Computer Society of India, Springer CCIS series, ISSN 1865-0929 ISSN 1865-0937 (electronic) Communications in Computer and Information Science, indexed in **DBLP**, Google Scholar, EI-Compendex, Mathematical Reviews, SCImago, **Scopus**, with DOI 10.1007/978-981-13-8581-0\_31, pp 388–401. Book ISBN 978-981-13-8580-3 eBook ISBN 978-981-13-8581-0 (eBook) book DOI: <https://doi.org/10.1007/978-981-13-8581-0> **Conference cum Book Chapter.** (UGC – 16246).
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34. **Rajdeep Chakraborty**, Sridipta Misra, Sunit Kumar Agarwal, Vineet Khemka, Sonam Agarwal and J. K. Mandal, "Efficient Hardware Realization of Triple Data Encryption Standard (TDDES) Algorithm using Spartan-3E FPGA", **Published & Presented** in International Conference on Issues and Challenges in Networking, Intelligence and Computing (**ICNICT 2011**), held on 2-3 September, 2011, at Ghaziabad, India, organized and sponsored by Department of Computer Science and Engineering, Krishna Institute of Engineering and Technology (KIET), India, Department of Science & Technology, Govt. of India, New Delhi, Computer Society of India (Ghaziabad Chapter), International Neural Network Society (India Regional Chapter), International Journal of Advanced Research in Computer Science and Ubiquitous Computing and Communication Journal, and published by Nandani Prakashan Pvt. Ltd., New Delhi, India, ISBN – 978-93-81126-27-1, pp 60 – 63.
35. **Rajdeep Chakraborty** and J. K. Mandal, "An RTL Based Design & Implementation of Block Cipher through Oriented Encryption Technique (OET)", **Published & Presented** in International Conference on Computing and Systems (**ICCS 2010**), held on November 19-20, 2010, at Burdwan, West Bengal, India, organized and published by Department of Computer Science, The University of Burdwan, Burdwan – 713104, West Bengal, India, ISBN – 93-80813-01-5, pp 335 – 338.
36. **Rajdeep Chakraborty** and J.K. Mandal, "Ensuring e-Security through Microprocessor-Based Recursive Transposition Technique (RTT)", **Published & Presented** in 12<sup>th</sup> International Conference on Information Technology (**ICIT 2009**), held on December 21-24, 2009, at Bhubaneswar, India, organized and sponsored by IEEE, IEEE Computer Society, Orissa Information Technology Society (OITS), Temple City Institute of Technology and Engineering (TITE), Silicon Institute of Technology, IIIT, NIST, OCAC and Techno India Group (Kolkata), and published by Tata McGraw Hill Education Private Limited, New Delhi, India, ISBN-10: 0-07-068104-0, ISBN-13: 978-0-07-068104-2, pp 66-69.
37. **Rajdeep Chakraborty** and J.K. Mandal, "A Microprocessor-based Stream Cipher through Stream Parity Technique (SPT)", **Published & Presented** in First International Conference on Computer, Communication, Control and Information Technology (**C<sup>3</sup>IT 2009**), held on 06-07 February, 2009 at Hoogly, West Bengal, INDIA, organized and sponsored by Academy of Technology (AOT), IEEE Leos Calcutta Chapter, IEEE EDS Calcutta Chapter, All India Council for Technical Education (AICTE), Indian Space Research Organization (ISRO), and CSIR, and published by MACMILLAN PUBLISHERS INDIA LTD Advanced Research Series, New Delhi, India, ISBN 10: 0230-63759-0, ISBN 13: 978-0230-63759-7, pp 417-423.
38. **Rajdeep Chakraborty** and J.K. Mandal, "A Microprocessor-Based Stream Cipher Through Stream Addition Technique (SAT)", **Published** in International Conference on Systemics, Cybernetics and Informatics (**ICSCI 2009**), held on January 07-10, 2009 at Hyderabad, India, organized,




sponsored and, published by Pentagram Research Center Pvt. Ltd. Hyderabad, India, Volume 1 of 2, pp 41–45.

39. **Rajdeep Chakraborty** and J.K. Mandal, "An Approach Towards Digital Content Protection Through Two Pass Replacement Technique (TPRT)", Published in First International Conference on Information Technology (**INTL-INFOTECH 2007**), held on March 19-21, 2007 at Haldia, INDIA, organized and sponsored by Department of Computer Science and Informatics, Haldia Institute of Technology (HIT), Technical Education Quality Improvement Program (TEQIP), Computer Society of India (CSI) (Kolkata), TEQIP network Partners, University of Calcutta (Kolkata), Govt. College of Engineering and Ceramic Technology (Kolkata), and published by Vitasta Publishing Pvt. Ltd., New Delhi, India, ISBN 81-89766-74-0, ISSN 0973-6824, pp 62–65.
40. **Rajdeep Chakraborty** and J.K. Mandal, "A Microprocessor-Based Block Cipher through Rotational Addition Technique (RAT)", **Published & Presented** in 9<sup>th</sup> International Conference on Information Technology (**ICIT 2006**), IEEE Xplore held on 18-21 December 2006, at Bhubaneswar, India, organized and sponsored by IEEE Computer Society, IEEE, Orissa Information Technology Society (OITS), Institute of Technical Education and Research (ITER), New Jersey Institute of Technology (NJIT), Satyam Computers Ltd. and IEEE New jersey Section, and published by IEEE Computer Society Conference Publishing Services, ISBN-10: 0-7695-2635-7/06, ISBN-13: 978-0-7695-2635-5, Indexed by **Scopus** and **DBLP**, DOI: 10.1109/ICIT.2006.13, pp 155–159. **Web of Science**
41. S. Sinha, J. K. Mandal and **R. Chakraborty**, "A Microprocessor-based Block Cipher through Overlapped Modulo Arithmetic Technique (OMAT)", published in 12<sup>th</sup> International Conference on Advance Computing and Communication (**ADCOM 2004**), held on December 15-18, 2004 at Ahmedabad, INDIA, organized and sponsored by Advance Computing and Communication Society (ACS), IEEE Gujrat Section and Computer Society of India (CSI) Ahmedabad Chapter, and published by Allied Publishers Pvt. Limited, Mumbai, India, ISBN 81-7764-717-2, pp 276–280.

### Citations

#### Google Scholar Citations



**Dr. Rajdeep Chakraborty**

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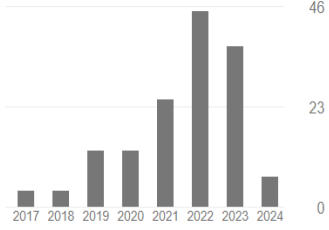
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<a href="#">Design of Cryptographic model for End-to-End Encryption in FPGA based systems</a> <small>R Chatterjee, R Chakraborty, JK Mandal 2019 3rd International Conference on Computing Methodologies and ...</small>	17	2019
<a href="#">Blockchain in IoT and Beyond: Case Studies on Interoperability and Privacy</a> <small>A Banerjee, B Dutta, T Mandal, R Chakraborty, R Mondal Blockchain based Internet of Things, 113-138</small>	8	2022

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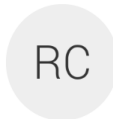
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**Annexure – II**  
**PhD Scholars and M. Tech / PG / Masters' Thesis Guidance**

**PhD Scholar (02)**

1. **Mrs. Runa Chatterjee, Registered on 11/December/2019 and Enrollment no. PhD/Tech/CSE110/2019**, Title "An Approach Towards Design of Efficient Lightweight Cryptographic Algorithms for Embedded Systems", under Maulana Abul Kalam Azad University, formerly West Bengal University of Technology, West Bengal, India.
2. **Mr. Debajyoti Guha, Registered on 05/October/2020 and Enrollment No. PHD/TECH/CSE010/2020**, Title "An Approach Towards Design of Efficient Cryptography Protocols for Lightweight Devices", under Maulana Abul Kalam Azad University, formerly West Bengal University of Technology, West Bengal, India.

**M. Tech / PG / Masters' Thesis Guidance (18)**

1. **"Blockchain Lightning Network"**, An M.Tech (CSE) thesis by Manas Mukhapadhyay, at Netaji Subhash Engineering College, Kolkata – 152, India, submitted by him on 20/08/2023 of one-year research project under Maulana Abul Kalam Azad University of Technology formerly West Bengal University of Technology, India.
2. **"An Approach Towards Design of Efficient Lightweight Hash Function for IoT Security and Micro-Architecture Design"**, An M.Tech (CSE) thesis by Subhashis Adhikari, at Netaji Subhash Engineering College, Kolkata – 152, India, submitted by him on **15/07/2021** of one-year research project under Maulana Abul Kalam Azad University of Technology formerly West Bengal University of Technology, India.
3. **"A COMPARATIVE STUDY OF LIGHTWEIGHT CRYPTOGRAPHY AND AUTHENTICATION"**, An M.Tech (CSE) thesis by Satadru Chakraborty, at Netaji Subhash Engineering College, Kolkata – 152, India, submitted by him on **14/07/2020** of one-year research project under Maulana Abul Kalam Azad University of Technology formerly West Bengal University of Technology, India.
4. **"An Approach Towards Design and Implementation of Cryptographic Hash Techniques for Message Authentication"**, an M. Tech (CSE) thesis by Soumya Vishnu, at Netaji Subhash Engineering College, Kolkata – 152, India, submitted by him on **17/05/2019** of one-year research project under Maulana Abul Kalam Azad University of Technology formerly West Bengal University of Technology, India.
5. **"Case Study and Literature Survey of Cryptographic Hash Function, Message Authentication Code and Digital Signature"**, an M. Tech (CSE) thesis/project by Rwitika Das, at Netaji Subhash Engineering College, Kolkata – 152, India, submitted by her on **03/05/2018** of one-year research project under Maulana Abul Kalam Azad University of Technology formerly West Bengal University of Technology, India.
6. **"Multiplication in Elliptic Curve Cryptography over Finite Field"**, An M. Tech (CSE) thesis by Mousumi Koley, at Netaji Subhash Engineering College, Kolkata – 152, India, submitted by her on **23/04/2015** of one-year research project under West Bengal University of Technology, India.
7. **"A Novel Wavelet Model for Securing Image Using Visual Cryptography with expansion less Share"**, An M. Tech (CSE) thesis by Manohar Jha, at Netaji Subhash Engineering College, Kolkata – 152, India, submitted by him on **23/04/2015** of one-year research project under West Bengal University of Technology, India.
8. **"VHDL Implementation of AES-128 Algorithm"**, An M. Tech (CSE) thesis by Eahita Naznene, at Netaji Subhash Engineering College, Kolkata – 152, India, submitted by her on **23/04/2015** of one-year research project under West Bengal University of Technology, India.
9. **"Modified Rabin Cryptosystem through Advanced Key Distribution System"**, An M. Tech (CSE) thesis by Sibendu Biswas, at Netaji Subhash Engineering College, Kolkata – 152, India, submitted by him on **28/04/2014** of one-year research project under West Bengal University of Technology, India.

Technology, India.

10. **"An FPGA Based Crypto Processor through Triangular Modulo Arithmetic Technique (TMAT)"**, An M. Tech (CSE) thesis by Santanu Basak, at Netaji Subhash Engineering College, Kolkata – 152, India, submitted by him on **21/04/2014** of one-year research project under West Bengal University of Technology, India.
11. **"Design and Implementation of A Novel Public Key Cryptography for Message Authentication"**, An M. Tech (CSE) thesis by Sabarna Sarkar, at Netaji Subhash Engineering College, Kolkata – 152, India, submitted by her on **30/04/2013** of one-year research project under West Bengal University of Technology, India.
12. **"An RTL Based Design & Implementation of Block Cipher through Time-Stamp-Keyed Oriented Encryption Technique"**, An M. Tech (CSE) thesis by Bidisha Mandal, at Netaji Subhash Engineering College, Kolkata – 152, India, submitted by her on **30/04/2013** of one-year research project under West Bengal University of Technology, India.
13. **"An Approach Towards Design and Analysis of a New Cryptosystem"**, An M. Tech (CSE) thesis by Debajyoti Guha, at Netaji Subhash Engineering College, Kolkata – 152, India, submitted by him on **25/04/2012** of one-year research project under West Bengal University of Technology, India.
14. **"Public Key Cryptography Through Unique Key Modified Merkle-Hellman Algorithm"**, An M. Tech (CSE) thesis by Abhirup Sinha, at Netaji Subhash Engineering College, Kolkata – 152, India, submitted by him on **24/04/2012** of one-year research project under West Bengal University of Technology, India.
15. **"Design of Efficient Cryptosystem on FPGA platform"**, An M. Tech (CSE) thesis by Sananda Mitra, at Netaji Subhash Engineering College, Kolkata – 152, India, submitted by her on **07/04/2011** of one-year research project under West Bengal University of Technology, India.
16. **"SAT & CSAT – Bit Level Cryptosystem"**, An M. Tech (CSE) thesis by Apurba Chakraborty, at Netaji Subhash Engineering College, Kolkata – 152, India, submitted by him on **05/05/2010** of one-year research project under West Bengal University of Technology, India.
17. **"Ensuring Security Through Design & Implementation of Symmetric Algorithm"**, An M. Tech (CSE) thesis by Nirajana Mukherjee, at Netaji Subhash Engineering College, Kolkata – 152, India, submitted by her on **01/06/2009** of one-year research project under West Bengal University of Technology, India.
18. **"An Approach Towards Design & Implementation of Universal Encoder"**, An M. Tech (CSE) thesis by Swatilekha Ghosh, at Netaji Subhash Engineering College, Kolkata – 152, India, submitted by her on **01/06/2009** of one-year research project under West Bengal University of Technology, India.

**Annexure – III**  
**Academic / Outreach Activities and Projects**

**Editor/Reviewer in International Journals (06)**

1. **Reviewer for Innovations in Systems and Software Engineering**, Springer Publication, Electronic ISSN 1614-5054, Print ISSN 1614-5046. <https://www.springer.com/journal/11334>
2. **Reviewer for SN Computer Science**, Springer Publication, Electronic ISSN: 2661-8907. <https://www.springer.com/journal/42979>
3. **Editorial Board Member and reviewer**, Asian Journal of Convergence in Technology, ISSN: 2350 – 1146, Impact Factor 1.535. <https://asianssr.org/index.php/ajct/editorial-board>
4. **Editorial Board Member and reviewer**, Glacier Journal of Scientific Research, ISSN: 2349 – 8498, Impact Factor 2.7614.
5. **Reviewer for Journal of King Saud University - Computer and Information Sciences**. Elsevier Publication and Scopus Indexed. ISSN: 1319-1578. Impact Factor 3.572. <https://www.journals.elsevier.com/journal-of-king-saud-university-computer-and-information-sciences>
6. **Editorial Board Member and reviewer**, Technoarete Transactions on Advances in Blockchain and Cryptocurrencies, <https://www.technoarete.org/blockchain-and-cryptocurrencies/>

**Keynote Address / Guest Speaker (15)**

1. **Invited Talk** on “**Understanding Cyber Security: A Comprehensive Approach**”, webinar on 14<sup>th</sup> January 2023, organized by Innovation Cell and Dept. of Computer Science and Engineering, OmDayal group of Institution, India.
2. **Resource Person** at "Workshop on Prototype/Process Design and Development - Prototyping", organized by Department of Statistics and Computer Applications, Kuriakose Elias College, Mannanam, Kerala, India on 31<sup>st</sup> August, 2022.
3. **Keynote Address, Innovation Summit for Microelectronics and Artificial Intelligence 2022**, Organised and held online by Institute of Research Proportion and Quaid-i-Azam University, Islamabad, Pakistan, on 30<sup>th</sup> June 2022.
4. **Keynote Lecture** at International Conference On Aatm Nirbhar Bharat: Present Status, Constraints and Solution, on 25-27 March 2022, Organized by University Institute of Vocational Studies and Skill Development & Internal Quality Assurance Cell, Rani Durgawati University, Jabalpur MP India. <https://www.edwinincorp.com/rdvv>
5. **Guest Lecture, Webinar on Problem Solving & Ideation**, Organized by Institute Innovation's innovation Council (IIC), Sri Ramkrishna Institute of Science & Technology, Kolkata, West Bengal, India and delivered on 21<sup>st</sup> February, 2022.
6. **Guest Lecture**, on “Cryptocurrency: Understanding the Future Economy”, held online on 3<sup>rd</sup> January, 2022, on the occasion of Observation of Student's Week 2022 and organized by Dept. of Mathematics and Statistics, Heramba Chandra College, formerly and popularly known as South City Day College (Estd. 1887), Kolkata, India.
7. **Keynote Lecture** at International Conference on Current Research in Engineering and Technology (ICCRET-2021), held online on November 26<sup>th</sup> & 27<sup>th</sup> 2021 and organized by Dept. of CSE, Brainware University, Barasat, Kolkata, India. <https://www.brainwareuniversity.ac.in/iccret-2021/>
8. Guest Lecture on “**Conceptualizations of BlockChain, Application and Related Security Fundamentals**”, At webinar organized by IEEE Netaji Subhash Engineering College Student Branch [STB 15115] of IEEE Computer Society SBC of Netaji Subhash Engineering College, Kolkata-700152, West Bengal, India on 2<sup>nd</sup> October, 2021.
9. **Keynote lecture on “Cryptocurrency: Understanding, Case Studies & Trends**”, At International Conference on Recent Innovations in Computer and Communication (ICRICC-2021), 9<sup>th</sup> August 2021, Organized by Department of Computer Science and Engineering, Rohini College

of Engineering and Technology, Tamil Nadu, India, In Collaboration with ISMASI, Azteca University, Mexico, North America.

10. **Guest Speaker, Five Days online Faculty Development Program on "Recent Trends in Data Security (RTDS)"**, organised and held online by RCC Institute of Information Technology, Kolkata, India and delivered on 30<sup>th</sup> June 2021.
11. **Keynote Address, Innovation Summit for Microelectronics and Artificial Intelligence 2021**, Organised and held online by Institute of Research Proportion and Quaid-i-Azam University, Islamabad, Pakistan, on 17<sup>th</sup> June 2021.
12. **Guest Speaker, Webinar, "Understanding BlockChain Principles, Application and Research Challenges"**, organised and held online by Research Circle, Malaysia, on 10<sup>th</sup> March 2021.
13. **Guest Speaker, Nikhil Bharat Shiksha Parisad Workforce Development Program, 2021-22 Series**, on 21<sup>st</sup> December 2020, Empanelment ID: NBSP1120A, Nikhil Bharat Shiksha Parisad, India.
14. **Keynote Address, 3rd RSRI Conference on Recent trends in Science and Engineering (RSRI CRSE 2020)**, 27 and 28 June 2020, Organized by REST Society for Research International, Krishnagiri, Tamil Nadu. India and held online.
15. **Guest Speaker, Webinar, "Understanding of Lightweight Cryptography and Cryptanalysis"**, organised and held online by Brainware University, Barasat, Kolkata, India, on June 18, 2020.

### **E-Contents / MOOCS (05)**

1. **"Problem Solving & Ideation"**, Video Lecture of 58 minutes at Institute Innovation's innovation Council (IIC), Sri Ramkrishna Institute of Science & Technology, Kolkata, West Bengal, published on 21<sup>st</sup> February, 2022. at <https://www.youtube.com/watch?v=0dxTMPqoHAK>
2. **"Conceptualisation of BlockChain, Application and Related Security Fundamentals"**, Video Lecture of 1 hour 04 minutes at IEEE Student Branch, Netaji Subhash Engineering College, Kolkata, India, published on 02<sup>nd</sup>, October, 2021 at <https://www.youtube.com/watch?v=Ct-jXq0xXTI&t>
3. **"Understanding BlockChain Principles, Applications and Research Challenges"**, Video Lecture of 1 hour 15 minutes, Published on 14<sup>th</sup> April 2021 at <https://youtu.be/AnJqLOP5pOg>
4. **"Lightweight Cryptography and Cryptanalysis: An Understanding"**, Video Lecture of 41 Minutes, Published on 28<sup>th</sup> July 2020 at <https://youtu.be/Q9C8PWDzJgc>.
5. **Subject Matter Expert Group (SMEG)**, ID: SMEG-21-07-101014, Date of Issue:9<sup>th</sup> July 2021 (lifetime), Nikhil Bharat Council for **Massive Open Online Course (MOOCS)**, with objective NBC-MOOC Free of Cost Training for Students for Socio-Economic Development **in area of expertise Blockchain, Cryptography**.

### **Workshop / FDP Co-ordinator (02)**

1. "Ten Days FDP on Data Science and Machine Learning Using Python", **FDP Coordinator**, Faculty Development Program Conducted at Dept. of Computer Science and Engineering, Netaji Subhash Engineering College, 3<sup>rd</sup> July – 12<sup>th</sup> July 2019, and funded by Techno India Group R&D initiative, Kolkata, West Bengal, India.
2. "Two Week ISTE Workshop on Cyber Security", **Workshop Coordinator**, Conducted at Dept. of CSE, Netaji Subhash Engineering College and by Dept. of Computer Science & Engineering, IIT-Bombay, July 10<sup>th</sup> 2014 to July 20<sup>th</sup> 2014, Under National Mission on Education through ICT, Ministry of Human Resource & Development, and Govt. of India.

### **Academic Committee Member (03)**

1. PhD review committee member at Maulana Abul Kalam Azad University of Technology, formerly West Bengal University of Technology, West Bengal, India (no certificate as confidential).

2. PhD review committee and evaluator at VELS, Institute of Science, Technology and Advanced Studies (VISTAS), Deemed to be University, NAAC (A-Grade), Chennai, India (no certificate as confidential).
3. PhD review committee and evaluator at Glocal University, Saharanpur, Uttar Pradesh, India (no certificate as confidential).

### **Associated with International Conferences /Academic Events (33)**

1. **Reviewer**, 2nd International Conference on Data Analytics and Insights (ICDAI-2024), to be held on 25-27 July 2024 in Kolkata, India, and organized by Techno International New Town, Kolkata, India, and Proceedings will be published in the Springer Nature LNNS Book Series (SCOPUS indexed).
2. **Reviewer**, International Conference on Electrical, Computer and Energy Technologies (ICECET 2024), to be held on 25-27 July 2024 in Sydney, Australia and organized by Aksaray University, Turkiye, and Sponsored by IEEE.
3. **Esteemed Reviewer**, 5<sup>th</sup> International Multidisciplinary Conference of Information Science, Management Research and Social Sciences (IMCISMRSS 2024) to be held on 13<sup>th</sup> and 14<sup>th</sup> March, 2024 and **organised by** Research Department of Computer Science and Applications, **AJK College of Arts and Science, Coimbatore, India in association with** International School of Management, Applied Science and Informatics (ISMASI), **Azteca University, Mexico**, and International Centre for Interdisciplinary Studies (ICIS), **CHAITANYA (DEEMED TO BE UNIVERSITY), India.**
4. **Wiki Certification and Credential Academy, New York, USA**, for successful empanelment of World Database for Reviewer – Main Track, ID WCA23MLADA00339 Dated December 16<sup>th</sup>, 2023. <https://www.wikicertificationsacademy.com/>
5. **Reviewer**, International Conference on Machine Learning And Applied Data Analytics (EAI MLADA 2023), October 7-8, 2023, Dehradun, India. <https://mlada-conference.eai-conferences.org/2023/>
6. **Session Chair and External Reviewer**, "Second International Conference on Computational Intelligence and Sustainable Development – ICCISD 2023" in recognition of outstanding contribution to maintain the quality of the conference during 18 -19, August 2023, organized by Dept. of CSE, CHAITANYA (DEEMED TO BE UNIVERSITY), India in association with Azteca University, Mexico.
7. **Technical Advisory Board Committee Member**, International Conference on Technological Trends in Computing & Business Environment, ITCBE-2024, Haldia Institute of Technology, Haldia, W.B., India, to be held on 2<sup>nd</sup> and 3<sup>rd</sup> February, 2024.
8. **Organising Committee Member**, International Conference on New Frontiers on the Global Stage of Multidisciplinary Research (ICNMR – 2023)", 23-24, May, 2023, Eudoxia Research University, USA, Eudoxia Research Centre, Bangalore & Guwahati, India in association with Maharaja Surajmal Institute, Delhi, India.
9. **Technical Program Committee Member**, 2024 5th Asia-Pacific Conference on Image Processing, Electronics and Computers (IPEC2024) will be held in Dalian, China during April 12-14, 2024. <http://www.acipec.org/organization.html>
10. **International Scientific Committee Member**, 5th International Conference on Advanced in Electrical Engineering and Computer Applications (AEECA2024), Held on August 16-18, 2024, Dalian, China. <http://www.aeeca.com/organization.html>
11. **Session Chair**, International Symposium on Advanced Computing & Informatics in Interdisciplinary Arena (ISACIIA – 2023), Organised as blended mode on 21<sup>st</sup> and 22<sup>nd</sup> March, 2023 by Department of Computer and Information Science, Raiganj University, West Bengal, India, in association with Aligarh Muslim University, Murshidabad Campus, West Bengal, India.
12. **Reviewer**, 2<sup>nd</sup> International Conference on Network Security and Blockchain Technology (ICNSBT 2023), dated 25-26, March, 2023, organized jointly by Vidyasagar University and the Computer Society of India, Kolkata Chapter. To be published at Springer and Technical Sponsored IEEE

Kolkata Chapter.

13. **International Organizing Committee Member and Participant**, International Conference on Multidisciplinary Research Trends in European, Asian and African Countries IRTEC-2023 organised by Eudoxia Research University, USA in association with American Council of Multidisciplinary Research Eudoxia (ACMRE), held on 30-31, January 2023. <https://eudoxiaresearchuniversity.us/>
14. **Session Chair**, for Technical Session on "AI, Blockchain and Other Optimization techniques", at 1<sup>st</sup> International Conference on Advanced Optimization Techniques and Applications (AOTA – 2023), Held on January 21<sup>st</sup> – 22<sup>nd</sup>, 2023, organised by Ramgarh Engineering College (REC), Jharkhand, India in collaboration with Sultan Moulay Slimane University, Morocco and City University, Malaysia.
15. **International Organizing Committee Member and Participant**, International Conference on Advanced Research, Tools, Techniques for Multidisciplinary Research Design MRD-2022 organised by Eudoxia Research University and Eudoxia Research University in association with Maryam Abacha American University of Nigeria Kano, held on 9-10, December 2022. <https://eudoxiaresearchuniversity.us/>
16. **International Organizing Committee Member**, International Conference on Advanced Research in Social Sciences and Humanities CASH-2022 organised by Eudoxia Research University and Eudoxia Research University in association with Maryam Abacha American University of Nigeria Kano, held on 28th October and 29th October 2022. <https://eudoxiaresearchuniversity.us/>
17. **Technical Reviewer, Thirty-Six Papers and International Conferences held worldwide by Association of Scientists, Developers and Faculties [ASDF], UK, April to June 2022.** <https://asdf.international/>
18. **Reviewer**, "2<sup>nd</sup> International Conference on Innovative Research in Renewal Energy Technologies (IRRET – 2022)", held on 20<sup>th</sup> – 21<sup>st</sup> March, 2022, organised by Department of Electronics and Communication Engineering, IMPS College of Engineering and Technology, Malda, West Bengal, India.
19. **Esteemed National Advisory Board Member**, International Multidisciplinary Conference on Information Science, Management Research and Social Science (IMCISMRSS-2022) held on 18&19 April, 2022, Organised by Department of Computer Applications, AJK College of Arts and Science, Coimbatore, India, in collaboration with ISMASI, Azteca University, Mexico, North America.
20. **Session Chair**, "Research, Innovation and Applications in Disruptive Technologies", 2022 Second International Conference on Computer Science, Engineering and Applications (ICCSEA), IEEE Conference Record No. 54677, SS No. 20, 8<sup>th</sup> September 2022, held and organised by Organized by Department of Computer Science and Engineering, GIET University, Gunupur-765022, Odisha, India. Special Session Link: <http://iccsea.in/sp/ss20.pdf> Conference link: <http://iccsea.in/>
21. **Moderator**, International Conference on Entrepreneurship and Startup Possibilities and Challenges after COVID-19 Around the Globe, organised by Compfeeders Aisect College of Professional Studies, Indore M.P., India, in collaboration with YuvaincubatED and K.I.T.E.S. Education on 21<sup>st</sup> January, 2022.
22. **Session Chair**, International Conference on Emergence in Commerce, Business, Management & Information Technology (ICONECBIT-2021), Jointly organised Dept. of Commerce, Raiganj University, Raiganj, West Bengal & College of Management & Commerce, Srinivas University, Mangalore, India & held in Online Mode on 16th December, 2021.
23. **National Advisor**, International Conference on Emergence in Commerce, Business, Management & Information Technology (ICONECBIT-2021), Jointly organised Dept. of Commerce, Raiganj University, Raiganj, West Bengal & College of Management & Commerce, Srinivas University, Mangalore, India & held in Online Mode on 16th December, 2021. <https://sites.google.com/view/iconecbit-2021/committees-leadership/esteemed-national-advisors>
24. **Session Chair, Technical Session-II**, International Conference on Current Research in Engineering and Technology (ICCRET-2021), November 26th & 27th 2021, organised by CSE



Department, Brainware University, West Bengal, India.

25. **Esteemed National Advisor**, International Conference On Academic Research and Innovation in Management, Information Technology, Social Science & Education (ICARI-2021), Organized Virtually on 24th & 25th November, 2021 By College of Management & Commerce, Srinivas University Pandeshwar, Mangalore, India In Collaboration with European International University, Paris, France.
26. **Reviewer and TPC**, International Conference on Industrial Instrumentation & Control, 20th - 22nd August, 2021, organised and held at Department of Applied Electronics & Instrumentation Engineering, RCC Institute of Information Technology, Beliaghata, Kolkata -700015, India.
27. **National Advisor**, International Symposium on Foundation and Advances in Research Methods and Computing (ISFARAC – 2021), Jointly organised by dept. of Sociology, Raiganj University, Raiganj, West Bengal, India and Aligarh Muslim University (AMU), Jangipur Centre, Murshidabad Campus, West Bengal, India and held online on 24<sup>th</sup> – 25<sup>th</sup> July 2021. <https://sites.google.com/view/international-symposium/organizing-committee/national-advisors>
28. **Reviewer and TPC**, 2020 IEEE International Symposium on Sustainable Energy, Signal Processing and Cyber Security (IEEE-iSSSC 2020), under IEEE Kolkata Section having conference record #50941, held on 16-17 December, 2020 at **GIET University, Gunupur, Odisha, India and proceedings published in IEEE Xplore.**
29. **Co-Chair of Publication Committee**, 2020 IEEE International Conference for Convergence in Engineering (ICCE-2020), under IEEE Kolkata Section having conference record #50343, held on 5-6 September, 2020 at **Netaji Subhash Engineering College, Kolkata, India** and proceedings published in IEEE Xplore.
30. **Reviewer, Organiser and Chairing of Technical Session on Wireless Communication and Security at 2020 International Conference on Computer Science, Engineering and Applications (ICCSEA 2020)** under IEEE Kolkata Section having conference record #49143, held on 13-14 March, 2020 at **GIET University, Gunupur, Odisha, India** and proceedings published in IEEE Xplore.
31. **Session Chair, Parallel Session – 12** of 1st International Conference on Innovation in Modern Science and Technology, ICIMSAT-2019, held on September 20th-21st, 2019 at Siliguri Institute of Technology, Siliguri, Darjeeling, West Bengal, India, Conference partner IET, Springer, DRDO, ACDOS, Ardent Computech and Electrical Engineering Society, indexed in DBLP, Google Scholar, EI-Compendex, Mathematical Reviews, SCImago, Scopus.
32. **Technical Program Committee Member and Reviewer** of Second International Conference on Computational Intelligence, Communication and Business Analytics (**CICBA-2018**), held at Kalyani Govt. Engineering College, Kalyani, India, July 27-28, 2018, Conference partner IEEE, Springer and Computer Society of India, indexed in DBLP, Google Scholar, EI-Compendex, Mathematical Reviews, SCImago, Scopus. (No Certificate Provided)
33. **Organizing Committee Member and Reviewer** of First International Conference on Computational Intelligence, Communication and Business Analytics (**CICBA-2017**), held at Calcutta Business School, March 24-25, 2017, Conference partner IEEE, Springer and Computer Society of India, indexed in DBLP, Google Scholar, EI-Compendex, SCImago, Scopus. (No Certificate Provided)

### **Certifications (05)**

1. **Ethics and Gender Equality, LinkedIn Learning Consisting of 26 courses / modules and completed on March 2023.**
2. **Hardware Modeling Using Verilog**, National Program on Technology Enhanced Learning (**NPTTEL**), SWAYAM ([www.swayam.gov.in](http://www.swayam.gov.in)), 8 weeks course, September – November 2020, conducted by Indian Institute of Technology (IIT)-Kharagpur with **Score 54% and conferred on December, 2020.**
3. **Cryptography and Network Security**, National Program on Technology Enhanced Learning (**NPTTEL**), SWAYAM ([www.swayam.gov.in](http://www.swayam.gov.in)), 12 weeks course, January – April 2020, conducted by

Indian Institute of Technology (IIT)-Kharagpur with **Score 65% and conferred on December, 2020.**

4. **Technical Quiz on Software Engineering – Certificate of Appreciation for scoring 75% and above**, Given by Dept. of Information Technology, Mahendra Engineering College, Namakkal, India on 18<sup>th</sup> May 2020.
5. **MTA: Security Fundamentals** – by Microsoft, 09/Nov/2019.  
<https://www.credly.com/badges/aa93367e-dc30-425a-90ce-e16d012d32ce/>

### **PG & UG projects (02)**

1. Development of Algorithms on Encryption technology through 8085 microprocessor programming and C programming (Windows & Linux) for analysis with RSA at University of North Bengal, SILIGURI, West Bengal, India. It is a part of ongoing R&D project of All India Council of Technical Education (AICTE), New Delhi, India. (1 year → during M. Tech/Masters').
2. Development of Banking System Using C graphical programming at Bose Institute, Govt. of India, and kolkata, West Bengal, India. (6 months → during BE/UG).

### **Awards / Recognition / Fellowships (21)**

1. **Dr. Kalam Leadership Excellence Award**, at DKIF Education and Summit Award 2022-23 on 9<sup>th</sup> April 2023 with Certificate No. DKIF/ESA23/090408 and Regd. No. UP05467145666495U.
2. **Research Excellence Award 2023, Certificate ID:** AOTA-2023/REA/0032/22-01-2023 at 1<sup>st</sup> International Conference on Advanced Optimization Techniques and Applications (AOTA – 2023), Held on January 21<sup>st</sup> – 22<sup>nd</sup>, 2023, organised by Ramgarh Engineering College (REC), Jharkhand, India in collaboration with Sultan Moulay Slimane University, Morocco and City University, Malaysia.
3. **Most Promising Engineer Award – 2022, Unique ID:** NBSP/22/SS/001300, Conferred on 18<sup>th</sup> December 2022 by Bengal Education Conclave and Shikshak Samman, by Nikhil Bharat Shiksha Parisad, Empanelled Under NITI AAYOG Govt.of India, Ministry of Social Justice & Empowerment Govt.of India, Ministry of Women & Child Development Govt.of India and Exempted Organization Under Section 12AA and 80G.
4. **Dr. A.P.J. Abdul Kalam – Sikshak Samman 2022**, Conferred on 15<sup>th</sup> October 2022, National Student Day by Nikhil Bharat Shiksha Parisad, Empanelled Under NITI AAYOG Govt.of India, Ministry of Social Justice & Empowerment Govt.of India, Ministry of Women & Child Development Govt.of India and Exempted Organization Under Section 12AA and 80G.
5. **Guest of Honor, QRDA – 2022**, on 14<sup>th</sup> October 2022, by Eudoxia Research University – USA and Eudoxia Research Centre, India.
6. **Dr. Sarvepalli Radhakrishnan Excellence Award 2022**, conferred on 8<sup>th</sup> October 2022, Prithvi Abhuday Association India (PAAI), India. [www.paaindia.in](http://www.paaindia.in)
7. **IRSD International Preminent Researcher Award 2022, Conferred on 30<sup>th</sup> September 2022**, at 8th International Conference on Interdisciplinary Research for Sustainable Development (IRSD) held on 30th September 2022 at Mahatma Gandhi State Institute of Public Administration (MGSIPA) Chandigarh, organized by International Institute of Organized Research - I2OR (A Registered MSME with Ministry of MSME, Government of India and Green ThinkerZ (A Registered Society with Government of Punjab, India in association with Centre for Smart Modern Construction, Western Sydney University, Australia and IIT Bombay Spoken Tutorial.
8. **Certificate of Appreciation**, for outstanding academic, research and leadership performance, 5<sup>th</sup> September 2022, Achievement ID: NBSP/22/09/0067, from Nikhil Bharat Shiksha Parisad (NBSP), (Licensed Organization Under MCA Govt. of India | Empaneled Under NITI AAYOG Govt.of India ,MSME Govt.of India).
9. **CIEMA Research Excellence Awards – 2022 for outstanding contribution in the field of Cryptography and Network Security**, by 1<sup>st</sup> International Conference on Computational Intelligence for Engineering and management Application – 2022, held online 26<sup>th</sup> – 27<sup>th</sup>, March,

2022. The first Indo – Serbian International conference by RASCM, Serbia, MISASA, Serbia, MCKVIE, India and CTIEMT, India. Signed by University of Nis, Serbia, University of Novi Sad, Serbia and Organizing Convener.

10. **Most Promising Educator – 2022**, by South Asian Chamber of Scientific Research & Development, License No. 129917, Govt. of India, Research Coordination Association of SAARC Countries, Unique ID: 129917 in academics domain from India.
11. **Most Promising Educator – 2021**, by South Asian Chamber of Scientific Research & Development, License No. 129917, Govt. of India, Research Coordination Association of SAARC Countries, Conferred on 23<sup>rd</sup> January 2022, with Unique ID: WB/22/0088161 in academics domain from India.
12. **Certificate of Excellence**, FOR “SIR SRINIVASA RAMANUJAN TEACHING EXCELLENCE 2021” ON 22nd December 2021 (NATIONAL MATHEMATICS DAY) by Nikhil Bharat Shiksha Parisad (NBSP), (Licensed Organization Under MCA Govt.of India | Empanelled Under NITI AAYOG Govt.of India ,MSME Govt.of India).
13. **Best Paper Award**, for the article titled “An Approach Towards Near-Field Communication (NFC) with Light Fidelity (Li-Fi)” in the International Conference on “Current Research in Engineering and Technology (ICCRET-2021)”, organized by Department of Computer Science & Engineering, Brainware University, in association with Institution’s Innovation Cell (IIC) and technically sponsored by CSI, BWU student Chapter during November 26 – 27, 2021.
14. **Technology Enthusiastic**, On occasion of Sir C.V. Raman Jayanti (7<sup>th</sup> November 1988 – 21<sup>st</sup> November 1970) from All India Eminent Faculty Council of Engineering, Management & Technology, Registered & Licensed Organization Under Ministry of Corporate Affairs Government of India Section-8 with CIN No: U80902WB2020NPL238391 and conferred/issued on 21<sup>st</sup> November 2021.
15. **Certificate of Honor**, on “NATIONAL EDUCATION DAY 2021”, Series\_ID: NED/21/NBSP/00299103939, Nikhil Bharat Shiksha Parisad, Empaneled Under NITI AAYOG Govt. of India, Ministry of Social Justice & Empowerment Govt. of India, Ministry of Women & Child Development Govt. of India, Regd. Under MSME Govt. of India and conferred on 11<sup>th</sup> November, 2021.
16. **Appreciation Letter**, on this auspicious occasion of World Science Day for Peace & Development 2021, Serial ID/Ref No.: SACS/R/WB/21/11/8769, on 8<sup>th</sup> November, 2021, SOUTH ASIAN CHAMBER OF SCIENTIFIC RESEARCH & DEVELOPMENT, License No: 129917 Issued By: Govt. of India | Empaneled Under MSME Govt. of India.
17. **“Enthusiastic Teacher - 2021”, World Students’ Day Award of Excellence**, Nikhil Bharat Shiksha Parisad, Empaneled Under NITI AAYOG Govt. of India, Ministry of Social Justice & Empowerment, Govt. of India, Ministry of Women & Child Development Govt. of India, Regd.Under MSME Govt. of India **and conferred on 15<sup>th</sup> October 2021.**
18. **International Research Supervisor Award, 2020 – 21 conferred by South Asia Management Association, Singapore and conferred on 17/January/2021.**
19. **Best Researcher Award 2020 – 21**, All India Eminent Faculty Council of Engineering, Management and Technology, India, Recognized and Licensed by Ministry of Corporate Affairs, Under Section – 8, Govt. of India.
20. **Adarsh Vidya Saraswati Rashtriya Puraskar, National Award of Excellence 2019 conferred by Glacier Journal Research Foundation, Global Management Council, Ahmedabad, Gujrat, India and conferred on 10/December/2019.**
21. **Distinction in Final Result and Certificate, During M.Tech (IT) / PG course from 2002-2004** at Sikkim Manipal Institute of Technology (SMIT), Majitar, Sikkim, India under Sikkim Manipal University of Health, Medical and Technological Sciences, Sikkim, India.

#### **Professional Memberships Continuing (06)**

1. **Member, IEEE**, Member #97416545, Up to December 2023.
2. **Member, IEEE** Computer Society, Member #97416545, Up to December 2023.

3. **Fellow Member of Eudoxia Research University (FMERU), USA and Fellow Member of Eudoxia Research Centre (FMERC), India, ERU/FMERU/2022/138, Lifetime, Since 19<sup>th</sup> September, 2022.** <https://eudoxiaresearchuniversity.us/>
4. **Professional Membership (Lifetime)**, Membership/InSc ID. InSc20205BA4, From December 2020, Institute of Scholars (InSc), #1338, 2nd Cross, 7th Block Sir M V Layout, Muddhinapalya Bengaluru-560091, Karnataka, India.
5. **Senior Membership (Lifetime)**, Membership No. FM: AA0039, From June 2020, REST Society for Research International, 292, TNHB Colony, Pothapuram, Kaveripattanam, Krishnagiri -635112 Tamil Nadu, India.
6. **Secretary (Technical)**, Indo-UK Confederation of Science Technology and Research, London, UK (Company No. 12297394) on 30<sup>th</sup> October 2019.

### **Professional Memberships Expired (07)**

1. **Honorary Membership**, 2022 – 23, HM – 22 – 00337, All India Eminent Faculty Council of Engg. Mgmt & Tech., (Corporate Identification No: U80902WB2020NPL238391), 1st Registered & Licensed Faculty Council Under Ministry of Corporate Affairs Govt. of India, on 26<sup>th</sup> January 2022 to 26<sup>th</sup> January 2023.
2. **Honorary Member**, Membership ID: HM/KOL/WB/028, 26<sup>th</sup> November 2020 to 31<sup>st</sup> December 2022, All India Eminent Faculty Council of Engineering, Management & Technology, Registered & Licensed Organization Under Ministry of Corporate Affairs Government of India Section-8 with CIN No: U80902WB2020NPL238391.
3. **Honorary Member**, 29<sup>th</sup> November 2020 to 31<sup>st</sup> December 2022, All India Applied Information Technology Development Association, Registered & Licensed Organization Under Ministry of Corporate Affairs Government of India Section-8 with CIN No: U73200WB2020NPL241612.
4. **Board of Studies member**, Membership ID: BOS/KOL/WB/0033, 21<sup>st</sup> November 2020 to 31<sup>st</sup> December 2022, Indo-European Scientific Research Group (INEUSRG), London, United Kingdom, UK Registration No. 12979469.
5. **Associate Member**, Membership ID: AM-SCKRJ-21-05-727, 11<sup>th</sup> May 2021 to 31<sup>st</sup> March 2022, All India Council for Competitive & Functional Programming Studies, Registered and Licensed organization under Ministry of Corporate Affairs, Govt. of India, CIN No. UB0904WB2020NPL23946B.
6. Data Analytics Skill Association, **Eminent Educationalist professional membership** 2018-19, Govt. of West Bengal registration no. 190305583, webpage: <http://nationalitassociation.com/>, [www.csksrc.org](http://www.csksrc.org)
7. Blockchain Skill Development Association, **Eminent Educationalist professional membership** 2018-19, Govt. of West Bengal registration no. 190305584, webpage: <http://nationalitassociation.com/>, [www.csksrc.org](http://www.csksrc.org)

**Annexure – IV**  
**Participations in Workshop, Seminars, Conferences, Trainings, STC and FDP**  
**Total = 46**

1. Fourth International Conference on recent Trends in Multidisciplinary Research (COM 4.0), held on 29<sup>th</sup> and 30<sup>th</sup> March 2024 and organized by Eudoxia Research University, New Castle, USA and Eudoxia Research Centre, India with Registration no. – EDX/IC/COM/2024/REG/03/737.
2. Second International Conference on Advanced Research Methods, Tools and Techniques for Multidisciplinary Research (MRD 2.0 – 2024), held on 20<sup>th</sup> and 21<sup>st</sup> February 2024 and organized by Eudoxia Research University, New Castle, USA and Eudoxia Research Centre, India with Registration no. – EDX/IC/MRD/2024/REG/02/236.
3. **Three Day National Workshop on “Research Writing and Publication Strategies”**, 25<sup>th</sup> to 27<sup>th</sup>, November 2023 and organized by MBien Analytics and Systems, India in association with Adonics Informatics, India.
4. Fifth International Conference on New Frontiers in Engineering, Science, Law, Management, Humanities and Social Science (INFES 5.0 2023), 27<sup>th</sup> and 28<sup>th</sup> December, 2023 organized by Eudoxia Research University, New Castle, USA and Eudoxia Research Centre, India with candidate registration no. – EDX/IC/INFES/2023/REG/12/237.
5. Second International Conference on Recent Trends in Multidisciplinary Research (ICROM 2.0 2023), 11<sup>th</sup> and 12<sup>th</sup> December, 2023 organized by Eudoxia Research University, New Castle, USA and Eudoxia Research Centre, India with candidate registration no. – EDX/IC/ICROM/2023/REG/12/238.
6. Third International Conference on Research Methodology for Qualitative and Quantitative Research (COM – 2023), 16<sup>th</sup> and 17<sup>th</sup> November, 2023 organized by Eudoxia Research University, New Castle, USA and Eudoxia Research Centre, India with candidate registration no. – EDX/IC/COM/2023/REG/11/138.
7. **Faculty Development Program (FDP)** on “Automation Design and Simulation” held on 5<sup>th</sup>, 12<sup>th</sup> and 19<sup>th</sup> May, 2023 and held online by Simulation Technologies Pvt. Ltd., India.
8. **“International Conference on Qualitative and Quantitative Research Design (ICOQR – 2022)”**, 24<sup>th</sup> and 25<sup>th</sup> September 2022, Organized by Eudoxia Research University – USA, Eudoxia Research Centre – India in collaboration with Maryam Abacha American University of Nigeria, Kano, Nigeria.
9. **“Writing a Structured Research Paper: Dos and Don’ts”**, Held online on 18<sup>th</sup> June 2022, Organized by Training and Workshop Wing, Adonics Informatics, India
10. **“Tesla IoT Internship/Training Program”**, February 15<sup>th</sup> to March 15<sup>th</sup>, 2022 Held online and organized by Origin Tech, Uran Islampur, Maharashtra, India. <https://origintechindia.com/>
11. **“Online Faculty Development Programme (FDP) on Quantum Computing”**, September 27 - October 08, 2021 Held Online and Organized Electronics & ICT Academies, MNIT Jaipur, NIT Patna, IIITDM Jabalpur & IIT Guwahati, India. This programme is endorsed by AICTE/UGC.
12. **One Week Instructor Led Live Online Training on “Internet of Things (IoT) Using Raspberry Pi”**, 30<sup>th</sup> March to 03<sup>rd</sup> April, 2021 Held Online and Organized by Finland Lab, A Unit of Revert Technology Pvt. Ltd., New Delhi, India.
13. **Two Weeks Faculty Development Program (FDP) on “Emerging Concept in Modern Computational Systems (ECMCS)”**, 16<sup>th</sup> December 2020 to 28<sup>th</sup> December 2020, Held Online and Organized by Department of Computer Science and Engineering, Brainware University, Kolkata, India.
14. **“BlockChain Cryptographic Application with Python”**, 40 Hours course, 17<sup>th</sup> August 2020 to 15<sup>th</sup> December 2020, Registration No. 717B-BAP-B1-2020, Roll No. 2, Held Online and Organized by Computer Aided Design Centre, Faculty Council of Engineering and Technology, Jadavpur University, Kolkata, India.
15. **Webinar on “Blockchain Essentials for Employability – A Workshop for Educators”** Organized by Oxford University Press, India, held on 16<sup>th</sup> October 2020.

16. **AICTE Training And Learning (ATAL) Academy Online FDP on "Internet of Things (IoT)"** from 12-October-2020 to 16-October-2020 at Held online and Organized by Indian Institute of Information Technology-Kota, India.
17. **Webinar on "How to File Patent, Copyright and Trademarks"** Organized by Research Circle, Malaysia, held on 4<sup>th</sup> October 2020.
18. **"Virtual 3 Days Workshop on Lightweight Cryptography"**, Organized by National Centre of Excellence for Cyber Security Technology Development, under Digital Security Council of India (DSCI) and Ministry of Electronics and Information Technology, Govt. of India, held on 1<sup>st</sup> – 3<sup>rd</sup> October 2020.
19. **Webinar on "Cryptography, Network Security and Cyber Security"** Organized by Maulana Abul Kalam Azad University of Technology (MAKAUT), West Bengal, India and Islamic University of Science and Technology (IUST), Jammu & Kashmir, India held on 26<sup>th</sup> September, 2020.
20. **AICTE Training And Learning (ATAL) Academy Online FDP on "Block chain"** from 07-September-2020 to 11-September-2020 at Held Online and Organized by Birla Institute of Technology-Mesra, India.
21. **Webinar on "Prospects of Natural Language Processing in India"** Organized by Department of Bachelor of Computer Application Center for Innovative Studies, Siliguri on held on 8/8/2020.
22. **"One Week Workshop Under RUSA 2.0 Computer Vision and Multimedia Computing"**, organized and held at Dept. of Information Technology, Jadavpur University, Kolkata, India on February 10 – 17, 2020 Funded by MHRD, Govt. of India.
23. **"2nd NATIONAL CYBER SECURITY SUMMIT"**, organized by Computer Society of India, Kolkata Chapter on 7<sup>th</sup> September, 2019 at Platinum Jubilee Auditorium, Indian Statistical Institute, Kolkata, West Bengal, India.
24. **"ISEA Project Phase II Sponsored Faculty Development Program on Cyber Security"**, 28<sup>th</sup> January – 1<sup>st</sup> February, 2019, sponsored by Department of Electronics and Information Technology, Govt. of India, organized and Held at Department of Computer Science and Engineering, Maulana Abul Kalam University of Technology (MAKAUT), formerly West Bengal University of Technology (WBUT), Salt Lake, Kolkata, India.
25. **"Global Blockchain Congress - Consensus 2018"**, 18 – 19 December, 2018, organised by Department of Information Technology & Electronics, Government of West Bengal and held at Biswa Bangla Convention Centre, New Town, Kolkata, West Bengal, India.
26. **"ISEA Project Phase II Sponsored Faculty Development Program on Network Security"**, 15<sup>th</sup> – 19<sup>th</sup> January, 2018, sponsored by Department of Electronics and IT, Govt. of India, organized and Held at Department of Computer Science and Engineering, Maulana Abul Kalam University of Technology (MAKAUT), formerly West Bengal University of Technology (WBUT), Salt Lake, Kolkata, India.
27. **"Faculty Development Program on Sensors, IoT and Security"**, 13<sup>th</sup> October – 18<sup>th</sup> October 2017, sponsored/supported by Ministry of Electronics and IT, Govt. of India, organized by Electronics and ICT Academy, National Institute of Technology, Patna, India and Held at MAKAUT, formerly WBUT, Salt Lake, Kolkata, India.
28. **"Teachers Training Workshop for Student Induction"**, 17 – 21 July, 2017, sponsored by All India Council for Technical Education (AICTE), New Delhi, India, organized by TLC, Indian Institute of Technology – Benaras Hindu University, Varanasi, India
29. **"QIP-AICTE Sponsored Short Term Course on Advanced Topics in Cryptography"**, 27<sup>th</sup> June – 3<sup>rd</sup> July, 2017, organized by Department of Mathematics, Indian Institute of Technology Kharagpur, India.
30. **"One week Faculty Development Programme on Selected topics on security issues in Internet of Things"**, conducted by Indian Institute of Technology – Guwahati and held at MAKAUT, formerly WBUT, Salt Lake, Kolkata, W.B., India, Feb 20 – 24, 2017 under Information Security Education and Awareness Phase-II (ISEA-II) Project, sponsored by Department of Electronics and Information Technology (DEIT), Under Ministry of IT, Govt of India.
31. **"One-Day Workshop on Technical Content Writing Using LATEX"**, conducted by and held at

Calcutta Business School, Diamond Harbor Road, Bishnupur 743503, 24 Parganas (South), West Bengal, India on May 29<sup>th</sup>, **2016 in Technical collaboration with Computer Society of India (CSI), Kolkata Chapter, India.**

32. "Two Week ISTE Workshop on Introduction to Design of Algorithms", Conducted at Dept. of CSE, Netaji Subhash Engineering College and Indian Institute of Technology-Kharagpur, April 27<sup>th</sup> 2015 to May 30<sup>th</sup> **2015, Under National Mission on Education through ICT, Ministry of Human Resource & Development, and Govt. of India.**
33. "Two Week ISTE Workshop on Computer Programming", Conducted at Dept. of CSE, Netaji Subhash Engineering College and by Dept. of Computer Science & Engineering, IIT-Bombay, May 20<sup>th</sup> 2014 to June 21<sup>st</sup> **2014, Under National Mission on Education through ICT, Ministry of Human Resource & Development, and Govt. of India.**
34. "Coordinators' Workshop on Cyber Security", Conducted at and by Dept. of Computer Science & Engineering, IIT-Bombay, 17<sup>th</sup> – 21<sup>st</sup> May, **2014, Under National Mission on Education through ICT, Ministry of Human Resource & Development, Govt. of India.**
35. "Workshop on Computational Methodologies and Applications (CMA-2013)", Conducted at Dept. of CSE, University of Kalyani, on April 22-23, **2013, organized and sponsored by West Bengal Council of Higher Education, West Bengal, India.**
36. "Workshop on Aakash Tablet Computer for Education", IIT-Bombay, 10-11 November 12, **2012, Under National Mission on Education through ICT, Ministry of Human Resource & Development, Govt. of India.**
37. "Telecom Technologies – Growth & Trends", Faculty Development Program conducted at BIT – Mesra Kolkata Extension center, on 16<sup>th</sup> September `2011, **sponsored and organized by Tata Consultancy Services (TCS), India.**
38. "Workshop on Linux Administration", training conducted at Netaji Subhash Engineering College at Kolkata, from 21<sup>st</sup> to 23<sup>rd</sup> February `2011, organized by dept. of CSE & IT, NSEC, Kolkata, India.
39. "High Impact Teaching Skills – MISSION10X Workshop", training conducted at Meghnad Saha Institute of Technology at Kolkata, from 25<sup>th</sup> January to 30<sup>th</sup> January `2010, **sponsored and organized by WIPRO, India.**
40. "Building Competency for Academic Management and Industrial Collaboration" **under Technical Education Quality Improvement Program (TEQIP), AICTE, Ministry of Human Resource Development, Govt. of India,** workshop conducted at & organized by Netaji Subhas Engineering College, Kolkata, on March 7, 14, 21 & 28 ` **2009, India.**
41. "Pattern Recognition & Machine Learning Technique", PATTERN-CON 2009, workshop conducted at Netaji Subhash Engineering College, Kolkata from 25<sup>th</sup> to 27<sup>th</sup> March `2009, organized by Dept. of CSE & IT, NSEC, Kolkata, India.
42. "Content Development using Principles of Courseware Engineering", COURSEWARE 2009, workshop conducted at Netaji Subhas Engineering College, Kolkata on 27<sup>th</sup> February `2009, organized by dept. of CSE & IT, NSEC, Kolkata, India.
43. 9<sup>th</sup> International Conference on Cryptology in India, INDOCRYPT-2008, held on December 14-17 `2008, conducted at & organized by Indian Institute of Technology (IIT) Kharagpur, India.
44. "Faculty Induction Program", workshop training conducted at Netaji Subhash Engineering College, Garia, Kolkata, from June 2007 to August **2007 (Two weeks), organized by National Institute of Technical Teachers' Training and Research, NITTR, Kolkata under ministry of HRD, Govt. of India.**
45. "Emerging Trends in Courseware Engineering", seminar conducted at Netaji Subhash Engineering College, Garia, Kolkata, on 26<sup>th</sup> April `2007, organized by dept. of CSE & IT, NSEC, Kolkata, India.
46. Second International Conference on Information Technology, Asian Applied Computing Conference (AACC – 2004), held on October 29 – 31, **2004** conducted at Kathmandu, **Nepal,** organized by IEEE India, IEEE Computer Society & others.

**Annexure – V**  
**Administrative Responsibilities**  
**(Other than Academics, Teaching and Research)**  
**Total = 13**

1. **Member, Criteria – 3**, Accreditation Process of Accreditation Board for Engineering and Technology, Inc. (ABET), USA, <https://www.abet.org/> , at Chandigarh University, Punjab, India. August 2022 to December 2022.
2. **Mentoring thirty-five B.E (CSE) Students**, each year since August 2022 to September 2023, Chandigarh University, Punjab, India.
3. **Mentoring twenty five B.Tech (CSE) Students**, each year, 2010 to 2022, Netaji Subhash Engineering College, Kolkata, India.
4. **Coordinator and Convener**, Departmental Student Alumni Meet, Dept. of Computer Science and Engineering, Netaji Subhash Engineering College, Kolkata, India. 14<sup>th</sup> April 2021 to 3<sup>rd</sup> July 2022.
5. **Faculty Advisor**, IEEE Computer Society Student Branch, Netaji Subhash Engineering College, Kolkata, India. 1<sup>st</sup> January 2021 to 3<sup>rd</sup> July 2022.
6. **Faculty advisor**, Dept. of Computer Science and Engineering, 4<sup>th</sup> Year Section A students, Netaji Subhash Engineering College, Kolkata, India. 1<sup>st</sup> January 2021 to 3<sup>rd</sup> July 2022.
7. **Member**, Accreditation (NBA,NAAC, NIRF & Others) Department Core Committee, Dept. of Computer Science and Engineering, Netaji Subhash Engineering College, Kolkata, India. 1<sup>st</sup> January 2015 to 3<sup>rd</sup> July 2022.
8. **Coordinator and Convener**, Research and Development Committee, Dept. of Computer Science and Engineering, Netaji Subhash Engineering College, Kolkata, India. 1<sup>st</sup> January 2015 to 3<sup>rd</sup> July 2022.
9. **Member**, Research laboratory, Dept. of Computer Science and Engineering, Netaji Subhash Engineering College, Kolkata, India. 1<sup>st</sup> January 2015 to 3<sup>rd</sup> July 2022.
10. **Member**, Laboratory Management Committee, Dept. of Computer Science and Engineering, Netaji Subhash Engineering College, Kolkata, India. 2<sup>nd</sup> January 2012 to 3<sup>rd</sup> July 2022.
11. **Coordinator and Convener**, Brochure and Publicity Documentation, Dept. of Computer Science and Engineering, Netaji Subhash Engineering College, Kolkata, India. 2<sup>nd</sup> January 2012 to 3<sup>rd</sup> July 2022.
12. **Coordinator and Convener**, Examination Cell, Dept. of Computer Science and Engineering, Netaji Subhash Engineering College, Kolkata, India. 1<sup>st</sup> January 2010 to 3<sup>rd</sup> July 2022.
13. **In-Charge**, Dept. of Information Technology, IMPS College of Engineering and Technology, Malda, West Bengal, India. 01/August/2005 to 13/March/2007.