

PUBLICATION DETAILS AY 2023-2024

1. Journal Publication in CARE List (158)

2. Asim Halder, "Sub-Riemannian Approach to Design Nonlinear Optimal Controller for Multimachine Power Systems", *ES Energy & Environment*, 2023, March, 2578-0654.
3. Moumita Sahoo, "Improved detection accuracy of red lesions in retinal fundus images with superlearning approach", *Photodiagnosis and Photodynamic Therapy*, 2023, February, 1873-1597.
4. Moumita Sahoo, "Improved detection of dry age-related macular degeneration from optical coherence tomography images using adaptive window based feature extraction and weighted ensemble based classification approach", *Photodiagnosis and Photodynamic Therapy*, 2023, May, 15721000.
5. Priyanka Sarkar Rakshit, "Single image rain removal via tetrolet transform and morphological decomposition", *Sadhana*, 2023, June, 0973-7677.
6. Priyanka Sarkar Rakshit, "Tetrolet Transform and Dual Dictionary Learning-Based Single Image Fog Removal", *Arabian Journal for Science and Engineering*, 2023, March, 2191-4281.
7. Saorabh Kumar Mondal, "Image contrast enhancement by optimization of color channel difference using bat algorithm", *Journal of Print and Media Technology Research*, 2022, December, 2414-6250.
8. Somak Karan, "Modified Smith predictor-based optimal fractional PD-PD controller for double integrating processes with considerable time delay", *Asia-Pacific Journal of Chemical Engineering*, 2023, March, 1932-2135.
9. Soumya Roy, "An Improved Prediction of Solar Cycle 25 Using Deep Learning Based Neural Network", *Solar Physics*, 2023, March, 0038-0938.
10. Sweta Bijali Maity, "Comments on "New low power and fast SEC-DAEC and SEC-DAEC-TAEC codes for memories in space application"", *Integration, the VLSI journal*, 2023, June, 0167-9260.
11. Kausik Sen, **Uday Maji**, Saurabh Pal, "GSR based Auto-monitoring of Pain Initiation / Elimination Time using Nonlinear Dynamic Model", *IEEE SENSORS JOURNAL*, 2023. (Accepted)
12. **M. Das**, R. Mandal, "Effect of photovoltaic energy penetration on photovoltaic-wind hybrid renewable energy system", *Nanomaterials and Energy*, Volume 12 Issue 3, July, 2023, pp. 1-8, DOI: <https://doi.org/10.1680/jnaen.23.00052>, ISSN 2045-9831.
13. Tilak Raj Maity, "Ortho-Vanillin based multifunctional scaffold for selective detection of Al³⁺ and Zn²⁺ employing molecular logic with DFT study and cell imaging with live Grass pea", *Journal of Photochemistry & Photobiology, A: Chemistry*, 2023, June, 1873-2666.
14. Mukesh Singh, "Phytochemicals Identification Using GC-MS in Four Extracts of Fruit Peels and Enactment of Extracts Against Pseudomonas Aeruginosa MZ269380", *Waste and Biomass Valorization*, 2023, February, 1877-2641.
15. Mukesh Singh, "Biovalorization of Fruit Wastes for Development of Biodegradable Antimicrobial Chitosan-Based Coatings for Fruits (Tomatoes and Grapes)", *Applied Biochemistry and Biotechnology*, 2023, June, 1559-0291.
16. Suvroma Gupta, "Post Covid Complications: Aftermath of the covid pandemic on health COVID-19: Therapy and Challenges", *Sustainability, Agri, Food and Environmental Research*, 2022, December, 0719-3726.
17. Suvroma Gupta, "Cellular, Biophysical and in Silico Binding Study of β -Estradiol-6-one 6-(O-carboxy methyl Oxime) with Tubulin in Search of Antimitotic Derivative of 2-Methoxy Estradiol", *Cell Biochemistry and Biophysics*, 2023, May, 1559-0283.
18. Swati Maiti, "Application of Fungal Mycelium for Bioplastic Production-A Review", *Organization Development Journal*, 2023, June, 8896402.

19. Swati Maiti, "Process parameter optimization for the detoxification of emerging environmental pollutant, PPD", *Journal of Hazardous Materials Advances*, 2023, May, 2772-4166.
20. Samanta S, Panchadhyae P, Maity TR, Nanda K, Samanta A (2023) Development of a growth chamber for cryptogams: a step toward ex situ conservation. *Brazilian Journal of Botany*, <https://doi.org/10.1007/s40415-023-00913-9>.
21. Samanta A, Maity TR, Dey S, Gupta S, Datta S (2023) The Effect of Pro-oxidant, Anti-oxidant and AntiCancerous Drug on Colchicine Induced Polyploidy Cells of Grass Pea Seedling. *Advances in Zoology and Botany*, 11(5): 399-407.
22. Seal S, Chakraborty T, Polley S, Paul D, Banerjee N, Sinha D, Dutta A, Chatterjee S, Sau K, Ghosh Dastidar S, Sau S (2023) Modeling and monitoring the effects of three partly conserved Ile residues in the dimerization domain of a Mip-like virulence factor from *Escherichia coli*. *Journal of Biomolecular Structure and Dynamics*, DOI: 10.1080/07391102.2023.2274978.
23. Atrayee Bandyopadhyay, "Microbial repairing of concrete & its role in CO2 sequestration- a critical review", *Beni-Suef University Journal of Basic and Applied Sciences*, 2023, January, 23148543.
24. Atrayee Bandyopadhyay, "Behaviour of concrete-filled double skin UPVC pipe under compression", *Sādhanā*, 2023, June, 09737677.
25. S S Hota, "Geometrically nonlinear free vibration of CNTs reinforced sandwich conoidal shell in thermal environment", *Acta Mech*, 2023, February, 16196937.
26. S S HOTA, "NONLINEAR FREE FLEXURAL VIBRATION OF SANDWICH HYPAR SHELL IN THERMAL ENVIRONMENT", *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, 2023, May, 16785878,
27. Mrutyunjay Rout & Sasank Sekhar Hota, Nonlinear vibration study of a rotor blade based on a novel non-polynomial function, *Composite Structures (ELSIVIER)* Available online 29 October 2023, Volume 327, 1 January 2024, 117667 Journal homepage: www.elsevier.com/locate/compstruct, Cite Score:10.9, CI Impact Factor:6.3, <https://doi.org/10.1016/j.compstruct.2023.117667>
28. Rabindranath Jana, "Design of Nanomaterials in Hydrogen Storage", *Education in Chemical Science and Technology*, 2023, February, 978-81-958341-2-9.
29. Radharani Das, "The Possibility of Lithium Iodide (LiI) as H2 Storage Material: A Conceptual DFT (CDFT) Approach", *Education in Chemical Science and Technology*, ICS, 2023, February, 978-81-958341-2-9.
30. Siddhartha Sankar Boxi, "Synthesis of graphene oxide and its application for purification of river water", *Materials Today: Proceedings*, 2023, January, 2214-7853.
31. Swikriti Khadke, Brindha Ramasubramanian, Pranto Paul, Raghavendra Lawaniya, Suma Dawn, Angana Chakraborty, **Biswajit Mandal**, Goutam Kumar Dalapati, Avishek Kumar, Seeram Ramakrishna "Predicting Active Solar Power with Machine Learning and Weather Data" *Materials Circular Economy*, Springer, (2023), <https://doi.org/10.1007/s42824-023-00087-5>. Print ISSN: 2524-8146. Impact Factor-4.3, H-Index: 10
32. Pooja Jaiswal, Yogendra Kumar, **Lipika Das**, Vaishali Mishra, Rohan Pagar, Debashis Panda, Koushik Guha Biswas, "Nanofluids guided energy-efficient solar water heaters: Recent advancements and challenges ahead" *Materials Today Communications*, September, 2023, 37, 107059. **Impact Factor:** 3.662, **H-index of the Journal:** 42, **ISSN No.-** 2352-4928, **DOI No.** <https://doi.org/10.1016/j.mtcomm.2023.107059>, **SCI/Scopus/Web of Science:** Scopus **Link** - <https://www.sciencedirect.com/science/article/abs/pii/S2352492823017506>
33. **Radharani Das**, Binay Kumar Dutta, Accepted One Paper entitled "Development and Application of Ceramic Membranes for Treatment of Oily Wastes", *Int. Journal of Eng. Science and Environmental Engg. (ESEE)*, September 2023, Scopus indexed, Manuscript ID: ES-EE-2023-0041.R1, <https://www.espublisher.com/journals/id/es-energy-environment>.
34. **Anoar Ali Khan**, *International Journal of environmental Analytical Chemistry*, on the thesis entitled "Prospective removal characteristics of noxious cationic dye using *Cladophora*

- catenata: a sustainable approach” , 3rd March, 2023, <https://doi.org/10.1080/03067319.2023.2191319>
35. Angana Chakraborty, "Ensemble Classifier for Hindi Hostile Content Detection", ACM Transactions on Asian and Low-Resource Language Information Processing, 2023, April, 2375-4699.
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 37. Patrali Pradhan, "Dec-Safe: Dynamic Decision Generation Mechanism for Delivering Safety Services in Vehicular Networks", IEEE Transaction on Vehicular Technology, 2023, July, 0018-9545.
 38. Subhankar Joardar, "A fuzzy strategic game solution for a green supply chain model", Applied Intelligence, 2022, December, 1573-7497.
 39. Subir Chakraborty, "Big Data Analysis : Preserving Security and Privacy with Hybrid Cloud Computing Environment", Journal of Aeronautical Materials, 2023, May, 1005-5053.
 40. Sunanda Jana, "Design and Analysis of a Modified 3D Sudoku Solver", IEEE Access, 2023, March, 2169-3536.
 41. Tahamina Yesmin, Dr. Harsh Lohiya, **Pinaki Pratim Acharjya**, "An Analysis of Watershed Approach with Distance Transform and Laplacian of Gaussian Operator in Regard to Evaluating Medical Images", International Journal of Computer Science and Mobile Computing, ISSN 2320-088X, Vol. 12, Issue. 10, October 2023, pp.1 – 9.
DOI: <https://doi.org/10.47760/ijcsmc.2023.v12i10.001>
 42. **S. Kuila**, N. Dhanda, **S. Joardar**, "ECG signal classification using DEA with LSTM for arrhythmia detection” , Multimedia Tools and Applications , Springer Nature , October, 2023. Journal (SCIE /SCOPUS).
 43. Swikriti Khadke, Brindha Ramasubramanian, Pranto Paul, Raghavendra Lawaniya, Suma Dawn, **Angana Chakraborty**, Biswajit Mandal, Goutam Kumar Dalapati, Avishek Kumar & Seeram Ramakrishna. Predicting Active Solar Power with Machine Learning and Weather Data, Materials Circular Economy, 5(1), Article number: 15, DOI:10.1007/s42824-023-00087-5, October, 2023 [SPRINGER].
 44. Article on “CNN-based Rice Nitrogen Status Estimation using UAV Integrated Multispectral Camera Images” authored by **Rituparna Saha**, Sudip Misra, Chandranath Chatterjee and Amit Biswas (2023) was accepted in “ASPCON 2023 IEEE Conference”, organized at Haldia Institute of Technology, Haldia, West Bengal, India from November 24-25, 2023.
 45. **Sanchita Saha**, Arup Kumar Chattopadhyay, Anup Kumar Barman, Amitava Nag and Sukumar Nandi, "Secret Image Sharing Schemes: A Comprehensive Survey," in IEEE Access, vol. 11, pp. 98333-98361, 2023, doi: 10.1109/ACCESS.2023.3304055.
 46. **Sanchita Saha**, Ashlesha Hota, Bikramjit Choudhury, Amitava Nag and Sukumar Nandi, "NTRU and Secret Sharing Based Secure Group Communication for IoT Applications," in IEEE Access, vol. 11, pp. 117341-117350, 2023, doi: 10.1109/ACCESS.2023.3325305.
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 48. **P. Pradhan**, C. Roy, S. Misra and S. Chattopadhyay, "Dec-Safe: Dynamic Decision Generation Mechanism for Delivering Safety Services in Vehicular Networks," in *IEEE Transactions on Vehicular Technology*, doi: 10.1109/TVT.2023.3292210.
 49. Tarun Kumar Ghosh, "Cloud Task Scheduling Using Modified Penguins Search Optimization Algorithm", International Journal of Next-Generation Computing, 2023, March, 0976-5034.
 50. **Asit Kumar Nayek**, Radha Krishna Jana, **Arpan Adhikary**. “An Improved Algorithm with multi factor authentication scheme for Telecare Medical Information System (TIMS)” **accepted** for publication in International Journal for Computer Science and Engineering through RAICCIT, 2023.

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53. Pranabes Gangopadhyaya, Tirtharaj Senb, Hrick Karna Royc, Janhabi Mukherjee, Bidesh Chakraborty. "Liver Disease Early Diagnosis When Coming Across Machine Learning, Deep Learning, and Federated Learning, A Review of Methods and Applications", MOENIA JOURNAL, Vol-10, Issue-7, PAGE NO:198-212, DOI:10.37896/MOENIA10.7/319
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55. Amit Bhattacharyya, "Impact of Transport Mechanism on Binding Kinematics and Sensitivity of FET Biosensors", IEEE Transactions on Electron Devices, 2023, June, 00189383.
56. Amit Bhattacharyya, "Ovarian-Cancer Biomarker (HE4) Recognition in Serum Using Hetero TFET Biosensor", IEEE Transactions on Nanotechnology, 2023, May, 1536125X.
57. Avisankar Roy, "FSS Embedded High Gain 'N' shaped Miniaturized Broadband Antenna", International Journal of Electronics and Communications, 2023, January, 1434-8411
58. Avisankar Roy, "FSS Integrated High Gain Broadband Antenna", Journal of Nano- And Electronic Physics, 2023, June, 2077-6772.
59. Avisankar Roy, "Wide Band Microstrip Patch Antenna with Enhanced Gain using FSS Structure", Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2023, June, 2179-1074.
60. Avisankar Roy, "HEART Shaped Broadband Hybrid Patch Antenna International", Journal of Microwave and Optical Technology, 2023, May, 1553-0396.
61. Chanchal Kumar De, "Comments on 'New low power and fast SEC-DAEC and SEC-DAEC-TAEC codes for memories in space application'", Journal of Integration, 2023, January, 0167-9260.
62. Dibyendu Chowdhury, "Optimisation of sub-threshold and saturation parameters of gate stack double gate (GSDG) MOSFET using Moth-Flame optimization algorithm", Materials Today: Proceedings, 2023, February, 2214-7853.
63. Dibyendu Chowdhury, "A Novel Dielectric Modulated Gate-Stack Double-Gate Metal-Oxide-Semiconductor Field-Effect Transistor-Based Sensor for Detecting Biomolecules", Sensors, 2023, March, 1424-8220.
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65. Pinaki Satpathy, "DIGITAL MICROFLUIDIC BIOCHIPS DESIGN AND OPTIMIZATION TECHNIQUE IN DIFFERENT MIXING PROCESS", NeuroQuantology, 2022, December, 1303-5150
66. Raj Kumar Maity, "Comments on 'New low power and fast SEC-DAEC and SEC-DAEC-TAEC codes for memories in space application'", Integration, the VLSI journal, 2023, April, 0167-9260.
67. Raj Kumar Maity, "An Improved Single and Double-Adjacent Error Correcting Codec with Lower Decoding Overheads", Journal of Signal Processing Systems, 2023, May, 19398115.

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71. Tilak Mukherjee, "Estimation of Petermann I, Petermann II spot sizes for Kerr type nonlinear dispersion-shifted along with dispersion-flattened optical fibers in fundamental mode guidance applying a simple but accurate formalism", *Journal of Nonlinear Optical Physics & Materials*, 2023, May, 1793-6624.
72. **Surajit Mukherjee, Avisankar Roy, Smarajit Maity, Tapas Tewary, Koushik Dutta, Sunandan Bhunia**, "Electromagnetic Band Gap Coupled Tri-Notched Miniaturized Ultra-Wideband Antenna Loaded with Slot and Parasitic Strip", *International Journal of Communication Systems (Wiley)*, ISSN No. 1099-1131, DOI: <https://doi.org/10.1002/dac.5565>, July 2023. **(SCIE Indexed) (IF – 1.882)**
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74. H. Mondal, **K. Goswami**, Nistha Dutta, Mukundamadhav Das, Swarna Bhatnaya, Mrinal Sen, "Design and simulation of phase shifter based on multimode interference in photonic crystal waveguides", *The European physical journal D (springer)*, (ISSN-1434-6079), Vol. 77, pp-188, DOI: 10.1140/epjd/s10053-023-00768-5, October-2023 (**SCI, SCIE, SCOPUS indexed**) **(IF-1.611)**.
[<https://journalsearches.com/journal.php?title=EUROPEAN%20PHYSICAL%20JOURNAL%20D>]
75. **Tirthadip Sinha**, Jaydeb Bhaumik, "Error-rate analysis of polar code designs using genetic algorithm for additive white Gaussian noise channel", *International Journal of Communication Systems*, ISSN:1099-1131, Vol. 36, Issue 18 :e5611, August 2023; DOI:10.1002/dac.5611 **[SCIE indexed] (IF – 2.1)**
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76. Angshuman Majumdar, **Tilak Mukherjee**, Sankar Gangopadhyay, "Estimation of Petermann I, Petermann II spot sizes for Kerr type nonlinear dispersion-shifted along with dispersion-flattened optical fibers in fundamental mode guidance applying a simple but accurate formalism", *Journal of Nonlinear Optical Physics and Materials*, ISSN: 1793-6624, <https://doi.org/10.1142/S0218863523500704>, July 2023. **(SCIE, SCOPUS, UGC CARE indexed). (IF-2.7, SJR 0.248)**
[<https://journalsearches.com/journal.php?title=Journal+of+Nonlinear+Optical+Physics+and+Materials>]
77. **Himadri Sekhar Das**, Santanu Mishra, Mrinal Kanti Dash, Prasanta Kumar Nandi, Subir Kumar Maity, Debnarayan Khatua, Anindita Chatterjee, Zhanhu Guo, Ben Bin Xu and Gourisankar Roymahapatra Transparent Conducting Gallium-Doped Zinc Oxide Thin Films on Glass Substrate for Optoelectronic Device Applications. *ES Mater. Manuf.*, **2023**, 22, 841.
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79. Sweta Bijali Maity, **Raj Kumar Maity, Jagannath Samanta, Chanchal Kumar De**, "Comments on "New low power and fast SEC-DAEC and SEC-DAEC-TAEC codes for

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85. Sumita Das, "Assessment of Proximate Composition and Antioxidant Potential of Different Commercially Packaged Tea Samples in West Bengal", *Asian Journal of Dairy and Food Research*, 2023, June, 0976-0563.
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88. **Ayan Mukherji**: A Comprehensive View on the Progress of Organoid Research with an Emphasis on its Relevance to Disease Characterization. Journal Name: *Biomedical and Environmental Sciences* ISSN: 0895-3988 doi: 10.3967/bes2023.083
89. Ayan Mukherji, "Recent Landscape of Deep Learning Intervention and Consecutive Clustering on Biomedical Diagnosis", *Artificial Intelligence and Applications*, 2022, Dec, 2811-0854.
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93. **Tamosa Chakraborty**: IoMT based Biochip-integrated Point-of-care Testing for Smart Healthcare *IEEE Internet of Things Journal* Print ISSN: 2327-4662 Online ISSN: 2327-4662 Digital Object Identifier: 10.1109/JIOT.2023.3304702
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98. Sourabh Bhattacharya, "Challenges Faced in Countering Cyber Crimes in Political Science and Management: a Critical Study", *European Chemical Bulletin*, 2023, June, 2063-5346.
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- 100) Wendrila Biswas (2023). From fear to faith in the adoption of medicine delivery application: An integration of SOR framework and IRT theory. *Journal of Business Research*, 166: 114140. SCOPUS, ABDC, UGC CARE –II
- 101) Wendrila Biswas (2023). [Review of the book *IT contracts and dispute management: A practitioner's guide to the project lifecycle*, 2nd edition. Elgar commercial law and practice series, by Steven Baker, Lawrence Akka, Rachel Glass]. *Conflict Resolution Quarterly*, October (Ahead of print) SCOPUS, ABDC, UGC CARE –II
- 102)** Kankana Datta, "Robust data hiding scheme for highly compressed image exploiting btc with hamming code", *Multimedia Tools and Applications*, 2023, June, 0975-9646.
- 103) Manasi Jana, Biswapati Jana, Subhankar Joardar, Reversible Data Hiding Strategy Exploiting Circular Distance Interpolation Utilizing Optimal Pixel Adjustment with Error Substitution, Published on Online (3rd nov 2023), *Multimedia Tools and Applications (SCI)*, ISSN 1380-7501.
- 104) Bipasha Biswas¹ Haldia Institute of Technology, Dr. Bikash Kanti Sarkar², Birla Institute of Technology (Mesra), Dr. Abhijit Mustafi, Birla Institute of Technology (Mesra)³, Dr. Apratim Mitra⁴, Haldia Institute of Technology, "Medical Prescription Recognition using Machine Learning", accepted in International conference on Trends in Computing, Automation, Management, Economics and applied Social Science (ICCAMEASS-2023), 28th October, 2023 at RCET, Kanyakumari, TN, India, Indexed by Scopus [Accepted paper].
- 105) "Medical Prescription Recognition using Machine Learning" Bipasha Biswas¹ Haldia Institute of Technology, Dr. Bikash Kanti Sarkar², Birla Institute of Technology (Mesra), Dr. Abhijit Mustafi, Birla Institute of Technology (Mesra)³, Dr. Apratim Mitra⁴, Haldia Institute of Technology, accepted in International conference on Trends in Computing, Automation, Management, Economics and applied Social Science (ICCAMEASS-2023), 28th October, 2023 at RCET, Kanyakumari, TN, India, Indexed by Scopus [Accepted paper]
- 106) Goutam Kumar Bose, "Parametric Analysis and Optimization of Aluminium and SS 204 Material Using Micro-EDM System", *International Journal on Interactive Design and Manufacturing*, 2023, April, 19552513.
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8. **BiswajitMandal** attended and presented working model of IOT enable water health monitoring device at the "Symposium on wellness connect- Living life 360^o" organized by Bengal Chamber of Commerce and Industries on dated 19th August 2023.
9. Subhojit Ash, RitamSaha, SaptakMandal,**Radharani Das** presentedapaperon*Synthesis of Silica Nano powder from Agricultural Wastes like Rice Husk and Sugarcane Bagasse*and Received **Best Paper Award** as (Guide) from Student's Chemical Engg Congress , SCHEMCON -23 held at KonguEngg College Coimbatore , India, during 22nd-23rdSeptember 23.
10. Soumyadip Das, RituThaku, SubrataDasgupta,**RadharaniDas**, presenteda paperon "*Removal of Hexavalent Chromium from Industrial Wastes Using Sugarcane Bagasse*" in Student's Chemical Engg Congress , SCHEMCON -23 held at KonguEngg College Coimbatore , India, during 22nd-23rdSeptember 23.
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63. Suparno Das, Indira Dey Paul and Swati Ray presented a paper on Application of Box-Cox power transformation in Food Process Modelling at International conference Emerging Technologies in Food Processing (ETFP-2023) organized by Department of Food Processing Technology, Ghani Khan Choudhury Institute of Engineering and Technology, Malda, West Bengal on September 26-27, 2023.

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