

International Conference on Science, Technology, and Management

Organized by the Department of Physics, Mathematics, Computer Science, and Commerce of Egra Sarada Shashi Bhusan College in collaboration with the Department of Computer Science and Applications of Prabhat Kumar College, Contai

Date: 25th April 2023 – 26th April 2023

The International Conference on Science, Technology, and Management was successfully organized by the Department of Physics, Mathematics, Computer Science, and Commerce of Egra Sarada Shashi Bhusan College, in collaboration with the Department of Computer Science and Applications of Prabhat Kumar College, Contai in blended mode. The conference took place on 25th April 2023 and 26th April 2023 at Egra Sarada Shashi Bhusan College, West Bengal, India. The conference aimed to provide a platform for researchers, scholars, and professionals from various disciplines to share their knowledge and exchange ideas on the latest advancements in science, technology, and management.

The conference witnessed the presence of esteemed resource persons from different parts of the world. The following delegates acted as resource persons and enlightened the attendees with their speeches:

1. **Prof. Baoding Liu** – Professor, Department of Mathematical Sciences, Tsinghua University, Beijing, China
2. **Prof. Samarjit Kar** – Professor, Department of Mathematics, National Institute of Technology, Durgapur, WB, India
3. **Prof. Biswajit Sarkar** – Professor, Department of Industrial Engineering, Yonsei University, Seoul, Republic of Korea
4. **Dr. Tarak Nath Sahu** - Associate Professor, Department of Commerce & Head, Department of Business Administration, Vidyasagar University, Midnapore, West Bengal, India
5. **Dr. Anand S** - Director, Postgraduate Studies, Research and Innovation Department, College of Banking and Financial Studies, Muscat, Sultanate of Oman
6. **Dr. Arindam Roy** - Associate Professor, Department of Computer Science & Applications, Prabhat Kumar College, Contai, West Bengal, India
7. **Dr. Samir Maity** - Postdoctoral fellow, Dept. of Materials and Production, Aalborg University, Aalborg, Denmark

The resource persons represented diverse areas of expertise, covering mathematics, computer science, industrial engineering, commerce, banking, finance, and materials and production.

The conference commenced with an opening ceremony, during which the president of the organizing committee Dr. Dipak Kumar Tamili welcomed the attendees and highlighted the significance of the event after that other invited members delivered their valuable speeches indicating the need and importance of the conference. The resource persons then delivered their speeches, addressing various aspects of science, technology, and management. Each session was followed by a question and answer segment, allowing participants to engage in meaningful discussions and gain insights from the experts.

The conference covered a wide range of topics, including but not limited to:

1. Mathematical modeling and optimization techniques
2. Data science and artificial intelligence
3. Industrial engineering and supply chain management
4. Financial management and banking practices
5. Material science and production processes
6. Computer applications and software development and other several allied topics

The event provided an excellent opportunity for researchers, academicians, research scholars and industry professionals to exchange knowledge, share research findings, and establish collaborative networks. The presentations and discussions fostered intellectual growth and facilitated the exploration of innovative ideas.

Furthermore, the conference featured paper presentations, where participants showcased their ongoing research projects and findings. This segment offered a platform for emerging researchers to receive feedback from experienced professionals and receive recognition for their work.

The International Conference on Science, Technology, and Management served as a catalyst for interdisciplinary collaboration and provided a forum for the dissemination of valuable research contributions. The efforts of the organizing committee, along with the active participation of resource persons and attendees, contributed to the success of this event. The conference undoubtedly enriched the academic and professional community, fostering advancements.

Finally the conference ends with the certificate distribution to paper presenters and valedictory session.



The banner features a purple and blue background with a person holding a tablet on the right. It includes logos for the organizing and collaborating institutions. The text is as follows:

25th & 26th April 2023

Two Day

**INTERNATIONAL CONFERENCE
ON
SCIENCE, TECHNOLOGY AND MANAGEMENT
(ICSTM-2023)**

Organized by
Department of Physics, Mathematics
Computer Science and Commerce
EGRA SARADA SHASHI BHUSAN COLLEGE
Egra, Purba Medinipur, West Bengal, India

In Collaboration with
Department of Computer Science & Applications
PRABHAT KUMAR COLLEGE, CONTAI
Contai, Purba Medinipur, West Bengal, India

VENUE
Egra Sarada Shashi Bhusan College
Egra, Purba Medinipur, West Bengal, India

DATE & TIME
25th April, 2023 - 9:30 a.m - 5:30 p.m.
26th April, 2023 - 11:00 a.m - 5:00 p.m

**TWO DAY
“INTERNATIONAL CONFERENCE ON SCIENCE, TECHNOLOGY AND MANAGEMENT”
(ICSTM-2023)**

Blended Mode

25th & 26th April, 2023

Time: 10 a.m. onwards, Venue: Conference Hall, Egra S.S.B. College

Organized By

DEPARTMENT OF PHYSICS, MATHEMATICS, COMPUTER SCIENCE AND COMMERCE
EGRA SARADA SHASHI BHUSAN COLLEGE
EGRA, PURBA MEDINIPUR, WEST BENGAL, INDIA

In Collaboration with
DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS
PRABHAT KUMAR COLLEGE
CONTAI, PURBA MEDINIPUR, WEST BENGAL, INDIA

International Conference on Science, Technology and Management (ICSTM 2023)
25th & 26th, April 2023

Google Meet joining info

Video call link: <https://meet.google.com/hjq-pxze-vmw>
<https://tel.meet/hjq-pxze-vmw?pin=1597299323548>

Video of the entire programme

<https://youtu.be/WNjTJ9kyRDk>

<https://youtu.be/at8OnKD4i7w>

PROGRAMME SCHEDULE

| Day-1 25 th April, 2023 | |
|---------------------------------------|---|
| 11:00 am – 11:10 am | Introduction to the Seminar and Inauguration through Lighting the lamp and Inaugural Song. |
| 11:10 am – 11:20 am | Welcome Address by Chief Patron, Dr. Dipak Kumar Tamili, Principal, Egra S.S.B. College & President, ICSTM 2023. |
| 11:20 am – 11:25 am | Inaugural Speech by Guest of Honour, Mr. Tarun Kumar Maity, President G.B. Egra S.S.B. College & M.L.A, Govt. of W.B. |
| 11:25 am – 11:30 am | Address by Chief Guest Dr. Amit Kumar De, Principal, P.K. College, Contai. |
| 11:30 am – 11:35 am | Speech by IQAC Coordinator, Dr. Aloy Chand Biswas. |
| 11:35 am – 11:40 am | Speech by Secretary, T.C. Dr. Shilpisree Giri. |
| 11:40 am – 11:45 am | Vote of Thanks & End of Inaugural Session |
| KEYNOTE ADDRESS (Online) | |
| 11:45 am – 12.45 pm | PROF. BAODING LIU Dept. of Mathematical Sciences Tsinghua University, Beijing, China |
| TECHNICAL SESSION-I | |
| 12:45 pm – 1:45 pm | PROF. SAMARJIT KAR Department of Mathematics National Institute of Technology, Durgapur, WB, India |
| 1:45 pm – 2:30 pm | Lunch Break |
| TECHNICAL SESSION-II | |
| 2.30 pm – 3:15 pm | DR. ARINDAM ROY Associate Professor |

| | |
|--|---|
| | Department of Computer Science & Applications Prabhat Kumar College, Contai, West Bengal, India |
| TECHNICAL SESSION-III(Online) | |
| 3.15 pm – 4:00 pm | PROF. BISWAJIT SARKAR Department of Industrial Engineering Yonsei University, Seoul Republic of Korea |
| 4:00pm – 4:30pm | Cultural Programme |
| 4:30 pm – 5:00 pm | Vote of Thanks & End of the Session |
| | |
| Day-2 26th April, 2023 | |
| 11:00 am – 11:05 am | Welcome Address |
| 11:05 am – 11:10 am | Speech by Chief Patron, Dr. Dipak Kumar Tamili , Principal, Egra S.S.B. College |
| KEYNOTE ADDRESS | |
| 11:10 am –12:00 pm | DR. TARAK NATH SAHU Associate Professor, Department of Commerce & Head, Department of Business Administration, Vidyasagar University, Midnapore, West Bengal, India |
| TECHNICAL SESSION-IV (Online) | |
| 12:00 pm – 12:45 pm | DR. ANAND S Director, Postgraduate Studies, Research and Innovation Department College of Banking and Financial Studies Muscat, Sultanate of Oman |
| TECHNICAL SESSION-V (Online) | |
| 12:45 pm – 1:15 pm | DR. SAMIR MAITY Postdoctoral fellow Dept. of Materials and Production, Aalborg University, Aalborg, Denmark |
| 1:20 pm –2:00pm | Lunch |
| 2:00 pm – 5:00 pm | Paper Presentation in blended mode |
| 5:00pm–5:30 pm | Certificate Distribution & Valedictory Session |

ICSTM 2023

**PICTURES
OF
“INTERNATIONAL CONFERENCE ON SCIENCE,
TECHNOLOGY AND MANAGEMENT”
(ICSTM-2023)**

**25th & 26th
April 2023**

INTERNATIONAL CONFERENCE

**ON
SCIENCE, TECHNOLOGY
AND MANAGEMENT
(ICSTM-2023)**



Organized by

**Department of Physics, Mathematics,
Computer Science and Commerce**

EGRA SARADA SHASHI BHUSAN COLLEGE

Egra, Purba Medinipur, West Bengal, India

in collaboration with



**Department of Computer Science & Applications
PRABHAT KUMAR COLLEGE, CONTAI**

Contai, Purba Medinipur, West Bengal, India

Venue

Egra Sarada Shashi Bhusan College
Egra, Purba Medinipur, West Bengal, India

Date & Time

25th April, 2023 - 9:30 a.m to 5:30 p.m
26th April, 2023 - 11:00 a.m to 5:00 p.m



+91 9432692316 (Dr. S. Yadav)
+91 7278427345 (Dr. D. Hazra)
+91 9433927433 (Dr. C. Ranjit)



icstm2023@egrassbcollege.ac.in



Egra S.S.B. College
Egra, Purba Medinipur
West Bengal, India

























































PAPER PRESENTATION SCHEDULE

**INTERNATIONAL CONFERENCE ON SCIENCE,
TECHNOLOGY AND MANAGEMENT**

(ICSTM-2023)

April 25th & 26th, 2023

Day 2

April 26th, 2023

Programme Time: 2.00 pm

Onwards

Programme Time: 2.00 pm

Venue: Conference Hall

ICSTM 2023 Paper Presentation Schedule

Wednesday, 26th April: 2:00 – 4:00pm

Google Meet joining info

Video call link: <https://meet.google.com/raq-xymq-rhd>

Or dial: (US) +1 331-251-3068 PIN: 702 722 382#

More phone numbers: <https://tel.meet/raq-xymq-rhd?pin=8056353636473>

Time: 2 p.m – 4 p.m

Chairperson

Dr. Tarak Nath Sahu

Associate Professor

Department of Commerce

Vidyasagar University

Co – Chairperson

Dr. Sunil Kumar Yadav

Assistant Professor

Department of Commerce

Egra S.S.B. College

COMMERCE, MANAGEMENT AND OTHERS

| Time: 2 p.m. to 4 p.m, each participant will get 5 minutes for presentation | | |
|---|---|---|
| S.L No. | TITLE OF THE PAPERS | AUTHORS NAME |
| 1. | METaverse TRANSFORMING THE DIGITAL BANKING AND CONSUMER EXPERIENCE | Dr. Deep Banerjee |
| 2. | Accounting for Cryptocurrencies: A Nightmare for Accountants | Dr. Sunil Kumar Yadav |
| 3. | Financial Performance of Selected IT Companies in India: An Empirical Assessment | Mr. Rathindra Nath Jana |
| 4. | Evaluation of Financial Performance: Evidence of Indian Pharmaceutical Companies | Mr. Koushik Acharyya |
| 5. | Analysis of company-specific components of business risk: An Evidence from selected Pharmaceutical Companies in India. | Miss Rupa Yadav |
| 6. | Efficiency of Working Capital Management of Selected Paint Company in India: An Empirical Assessment | Mr. Rupesh Yadav |
| 7. | A comparative study of financial performance of Oil India Limited and Oil and Natural Gas Corporation | Mrs. Pooja Sharma |
| 8. | Indian Power Sector: A journey towards sustainability | Dr. Monojit Saha |
| 9. | Role of Foreign Portfolio Investment towards Financial Deepening and Broadening of Capital Market in India: Some Empirical Insights | Dr. Shib Sankar Jana |
| 10. | International Exposure and Macro Environmental Elements: A Dynamic Panel Data Analysis | Mr. Somnath Das |
| 11. | MSMEs – A catalyst for achieving AtmaNirbhar Bharat | Mr. P Bala Muralidhar |
| 12. | Algorithmic Management and Employment Relations: A Study on App-based Food Delivery Partners in India | Dr. Mandira Dey Dr. Abhishek Mishra |
| 13. | Wage determination in the Tea Industry of West Bengal: An Empirical Study | Miss. Arpita Dey Dr. Nirmal Chandra Roy Dr. Abhishek Mishra |
| 14. | Work-life Balance of Female Teachers in Educational Institutions in South Bengal: A Phenomenological Study | Aditi Roy Dr. Abhishek Mishra |
| 15. | Post Covid-19 Challenges in the Indian Travel and Tourism Sector | Mr. Dhananjoy Ghosh Dr. Nirmal Chandra Roy |
| 16. | Contribution of Technology in Education during pandemic Covid-19 | Mr. Samit Jana |
| 17. | An Analysis of Twitter Data to Determine Public Sentiment towards the Leading EdTech Startups in Higher Secondary Level | Dr. Sahin Sahari |
| 18. | Assessing the Relevance of Technology in Education in the | Mrinmoy Bhanja |

| | | |
|-----|--|--|
| | Current Education System based on the NEP-2020 Recommendations | Miss.Soumi Mandal |
| 19. | Impact of Covid 19 on Education Its Subsequent Challenges and Possible Solutions in the Relevance of Online Education System | Mr. Sanchita Das |
| 20. | Environmental Concern in Indra Sinha's Animal's People: A Social Ecological Perspective. | Sanjumanara Khatun Dr. Sravasti Roy |

SCIENCE

| Time: 3 p.m. to 5 p.m, each participant will get 5 minutes for presentation | | |
|---|---|--|
| 1. | GLOBAL INFECTIOUS DISEASE MANAGEMENT USING OPERATIONAL RESEARCH: A MULTIDISCIPLINARY PERSPECTIVE | Mr. Pralay Poria |
| 2. | Decision making in Two- Layer Supply chain with Doubt Fuzzy set | Mr. Biswajit Roy |
| 3. | Some generalized contraction results for self-mapping on PM spaces | R B Das S.K Bhandari C.Ranjit |
| 4. | A pollution sensitive fuzzy EPQ model with endogenous reliability and product deterioration based on lock fuzzy game theoretic approach | Mr. Kousik Bhattacharya Dr. Sujit Kumar De |
| 5. | Effects of anti-predator behaviour in stage-structure predator-prey systems | Dr. Banshidhar Sahoo |
| 6. | A new approach to study the nature of (real) sequences | Mr. Sandip K Maiti |
| 7. | Multi-objective mathematical model for Aquaculture production and Management in fuzzy environment | Dr.Bablu Samanta |
| 8. | Inventory Model for a Deteriorating Item with Cloudy Fuzzy Lead Time and fully backlogged shortage | Mr. Naba Kumar Maity Dr. Ajoy Kumar Maiti |
| 9. | A THREE LEVEL SUPPLY CHAIN WITH DEFAULT RISK UNDER TWO LEVEL TRADE CREDIT POLICY: A STACKELBERG GAME APPROACH | Miss. Rumpa Sau Dr. Chayan Ranjit Dr. Manas Kumar Maiti |
| 10. | Channel coordination of a two-echelon supply chain under sales-effort dependant random demand with the downstream competition | Mr. Goutam Kumar Mandal Dr. Manoranjan De |
| 11. | Coordination of a two-echelon supply chain under different cost-sharing contracts with dynamic demand in competitive downstream. | Mr. Rabindranath Bhoj Dr. Manoranjan De Dr. Mithu Rani Kuiti |
| 12. | $f(Q)$ gravity reconstruction through $f(T,B)$ gravity | Dr. Anup Kumar Singha |
| 13. | Construction of Source Potential in a Two Layered Liquid Media | Dr. Partha Agasti |
| 14. | Green 4-dimensional multi-objective transportation problem for incompatible damageable goods with the best use of space in vehicles | Dr. Manoranjan De |
| 15. | Benedick's theorem for the Weyl Transform (An uncertainty principle) | Partha Sarathi Patra Sivaramakrishnan C, Venku Naidu D |
| 16. | BSb Compound Semiconductor as Absorber Layer in Hot carrier solar cells | Dr. Shirsendu Das |
| 17. | Structural and Microstructural Characterization of Human kidney and gall-bladder Stones using X-ray powder diffraction | Dr. Dipak K. Hazra |
| 18. | Electrical Transport Properties of RGO-ZnSe Composite | Dr. Abdulla Bin Rahaman |

| | | |
|-----|---|---|
| 19. | Dependency of stability of dipolar molecular BEC on s-wave scattering length | Dr. Pradip Kumar Mondal |
| 20. | FUSION STUDIES WITH RADIOACTIVE NUCLEI | Dr. Mukesh Kumar Pradhan |
| 21. | Direct compositional analysis of Si _{1-x} Gex alloy structures using matrix effect compensated SIMS | Dr. Biswajit Saha |
| 22. | Mathematical Modeling in Artificial Intelligence | Dr. Tarun Kumar Barik |
| 23. | Surface vs Bulk In-Situ Polymerization for Oriented Transparent Conducting Polymers | Dr. Smita Mukherjee |
| 24. | Extension of the Periodic Table beyond Lawrencium | Dr. Partha Roy Chowdhury |
| 25. | Rietveld Refinement of 4-bromo-2 nitrobenzoic Acid | <u>Suniti Pradhan</u> Dipak K. Hazra |
| 26. | Weak intermolecular interaction and Hirshfeld surface analysis | Jyotirmoy Rath Dipak K. Hazra |
| 27. | N-ARYLMALIMIDES AS POTENTIAL SUBSTRATES FOR THE GENERATION OF AXIAL CHIRALITY THROUGH ORGANOCATALYSIS | Dr. Barnali Jana |
| 28. | Base-catalyzed general and facile one-pot synthesis and cytotoxic evaluation of Quinone-based Naphtho[2,3-b]thiophene-4,9-dione derivatives | Mr. Soumen K Manik Dr. Nirmal K Hazra |
| 29. | TRENDS IN GREEN SYNTHESIS OF MEDICINAL PLANTS FOR NANOMEDICINE FORMULATION IN RELATION TO HUMAN HEALTH | Subhendu Bikash Jana |
| 30. | HENRY BIRD SWARM OPTIMIZATION: ETHEREAL TOPOGRAPHIES AND OPTIMUM HIERARCHICAL DEVOTIONS SYSTEMS FOR LUNG IRREGULARITY DISCOVERY | Mr. Atanu Manna Dr. Kamal Kr. Srivastava |
| 31. | A Model to Maintain Social Harmony by Tagging Hate Speech with respect to Fake User in Social Media Environment | Lila Misra Rahul Shrivastava |
| 32. | Molecular detection of Vibrio spp. and associated virulent genes in Scylla serrata from the Indian Sundarbans | Dr. Sanjib Saha Debajyoti Pradhan Dr. Gadadhar Dash |

_Sd/-

Dr. Chayan Ranjit (Convener)

Dr. Dipak Kumar Hazra (Jt. Convener)

Dr. Sunil Kumar Yadav (Jt. Convener)