



Research Cell Report

2019 - 2024

MAHESHTALA COLLEGE
MAHESHTALA COLLEGE, BUDGE
BUDGE TRUNK ROAD,
MAHESHTALA,
KOLKATA - 700139

www.maheshtalacollege.ac.in



MAHESHTALA COLLEGE

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E-mail: maheshtalacollege@yahoo.com / principal.maheshtalacollege@gmail.com
☎: 6289482452 (Office)
Website: www.maheshtalacollege.ac.in

Research Cell

A research cell is formed with the following members of teaching staff, Maheshtala College:

Committee:

- (1) Chairman: Dr. Rumpa Das, Principal, Maheshtala College
- (2) Convener: Dr. Payel Rakshit

Members:

1. Prof. Sonatan Soren
2. Prof. Mohammad Johaed
3. Sri Sasanka Sekhar Maity
4. Sri Reeswav Chatterjee
5. Sri Kishore Roy Sarkar
6. Smt. Suchismita Neogi
7. Sri Juyel Ali



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Summary of Research & Publication (2019-2024)

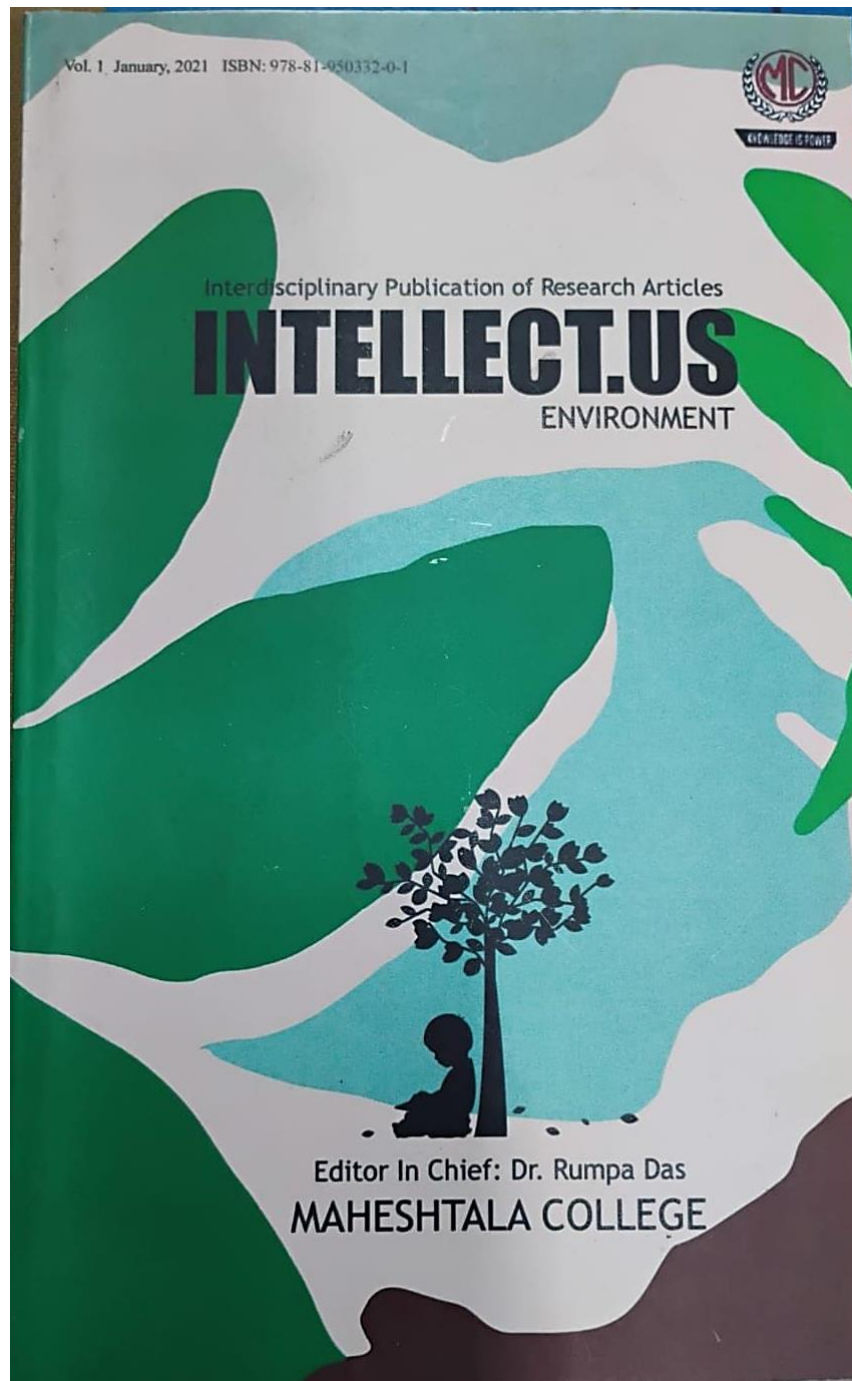
1. Research Forum DHIMAHI-	17
2. Research Publication (intellect.us)-	02
3. College Journal (ANWESHAN)-	04
4. ICSSR Sponsored Major Research-	01
5. NAAC, ICPR Sponsored-	02
6. Students' Seminar-	227
7. Teachers' Presentation-	373
8. Teachers' Publications (In UGC journals)-	17
9. Book Publication- (Book chapters: 48, Book: 05 (2 books as per NEP & CBCS syllabus)	
10. Projects By Students-	300
11. Internships by students-	146
12. Webzines-	05
13. Major research projects-	01
14. Awards received by teachers:	03

- Asian Education Award 2020 (Dr. Rumpa Das, Principal)
- Durga Shiksha Samman 2024 (Dr. Rumpa Das, Principal)
- Junior fellowship in the field of literature, Center for Cultural Resource and Training (Dr. Monami Basu, Dept. of Bengali, Maheshtala College)

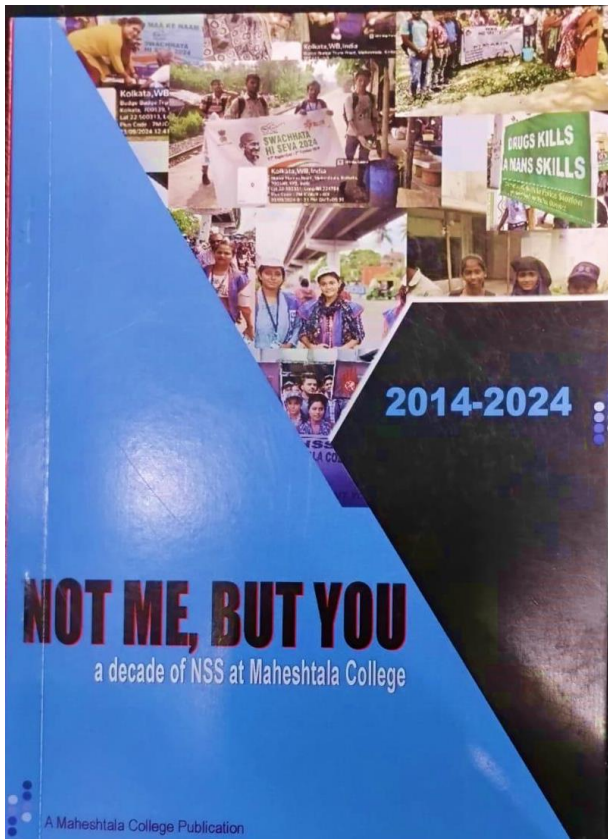
Interdisciplinary Research article of Maheshtala College

Intellect.Us is an interdisciplinary, peer-reviewed publication featuring research articles from scholars and educators across various disciplines. Published by Maheshtala College, the journal provides a platform for critical inquiry and academic exploration on a chosen theme for each volume. The first volume, released in January 2021, focused on "Environment," while the second volume delves into the theme of "Gender."

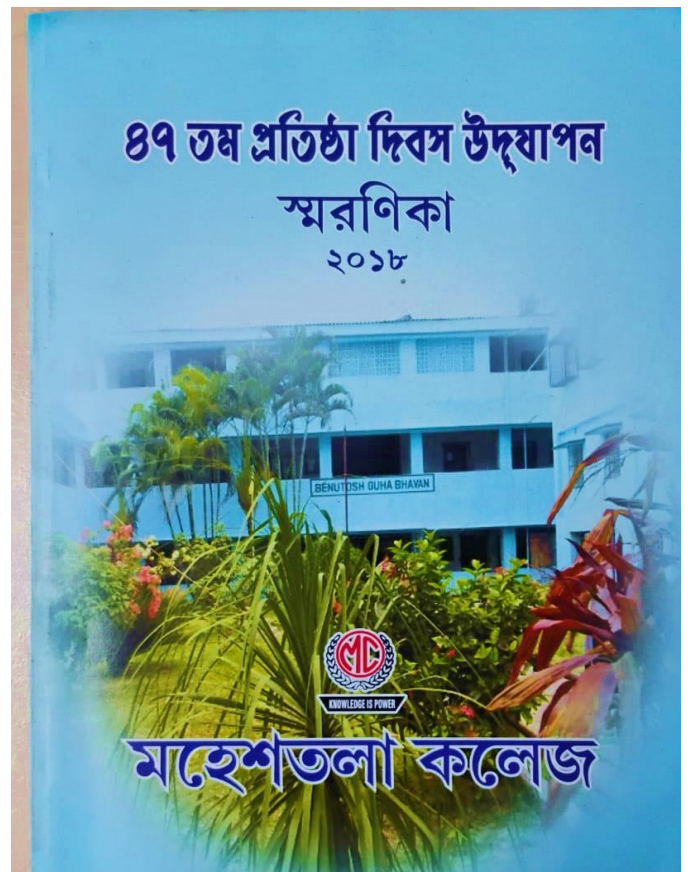
The journal serves as a space for intellectual engagement, encouraging fresh insights and discussions that challenge traditional boundaries. Through this initiative, Intellect.Us continues to uphold academic excellence and contribute to contemporary debates in the humanities and social sciences.



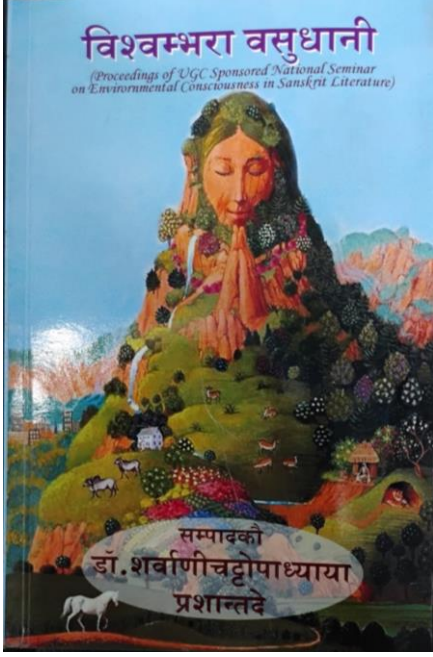
10 years of NSS



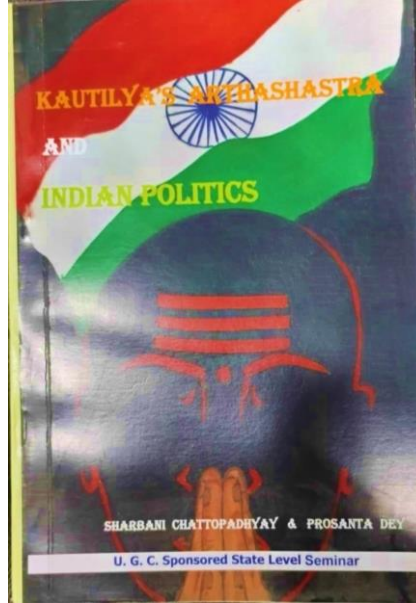
47th Foundation Day Celebration



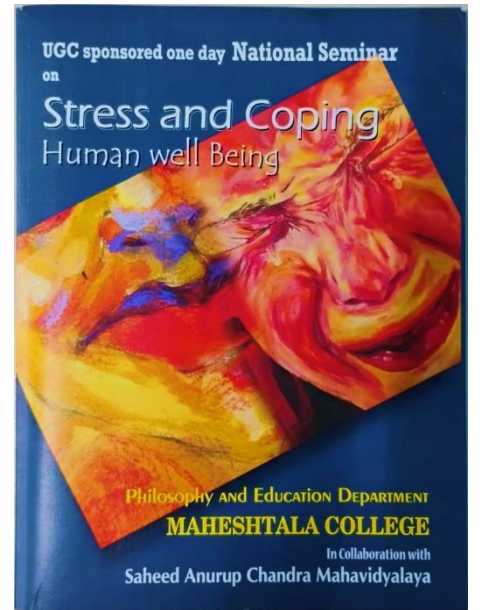
Departmental Publications



Department of Sanskrit

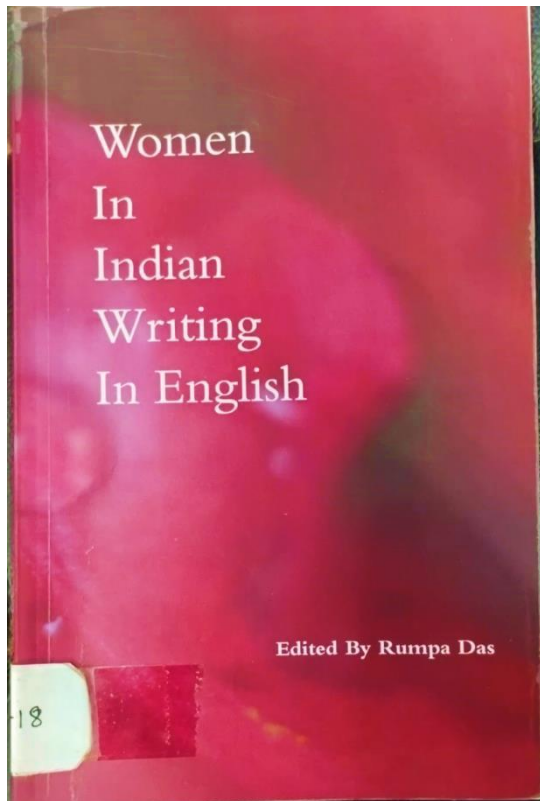
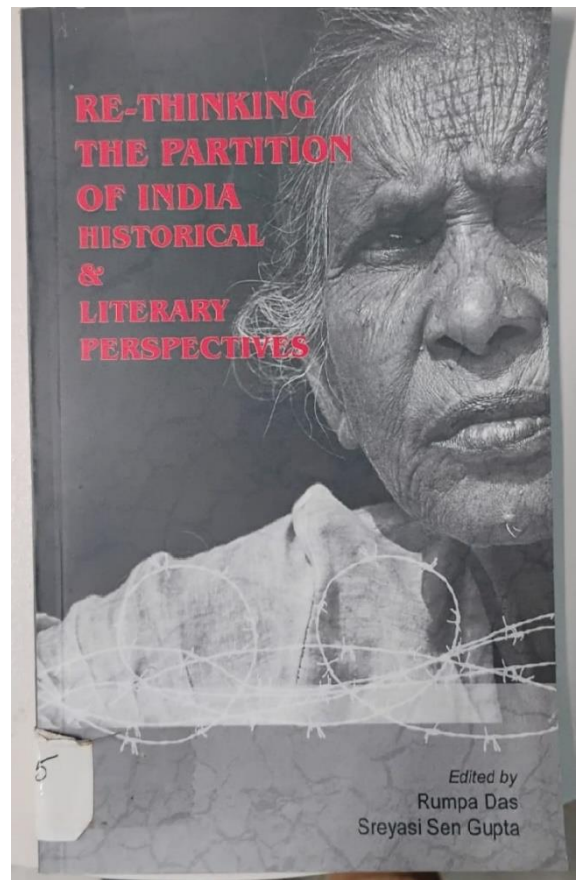
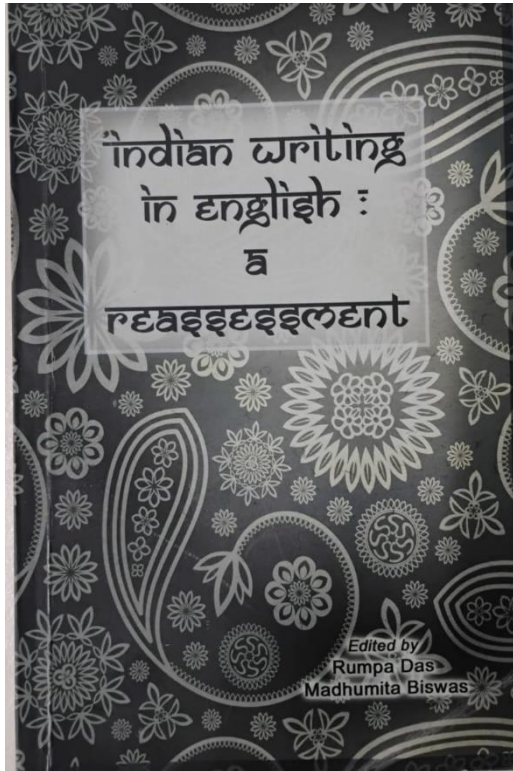


Department of Sanskrit

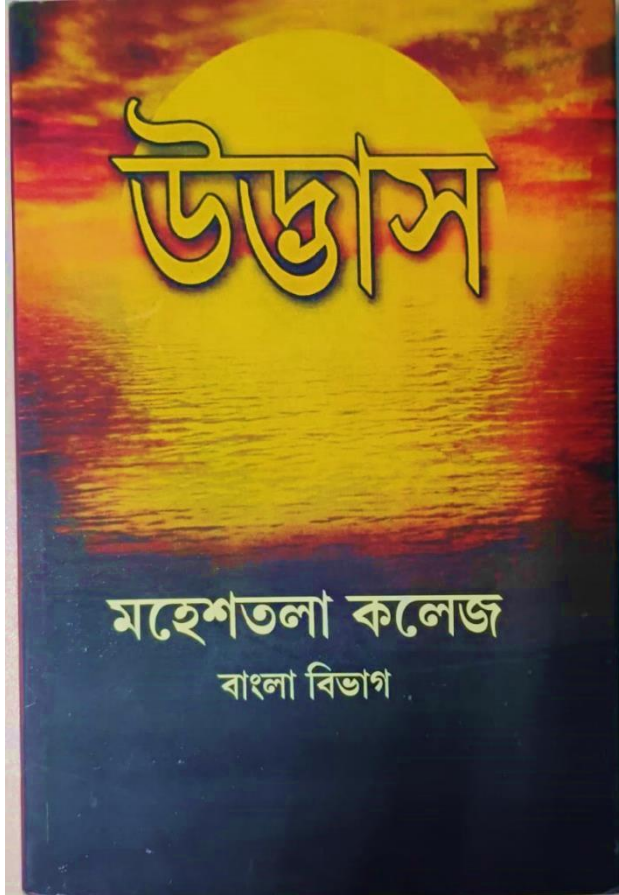
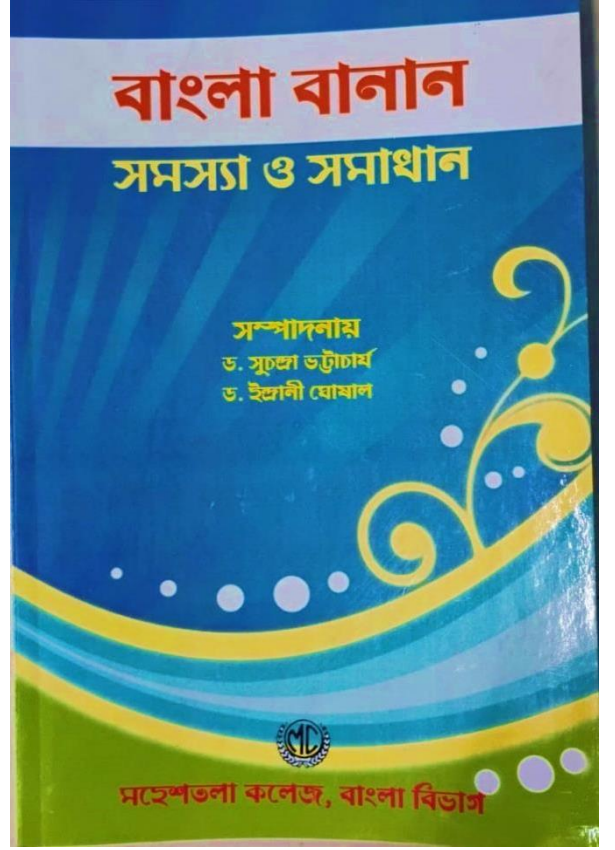


Department of philosophy & Education

Department of English



Department of Bengali



Empowering knowledge through Research & Major Projects

Changing Land Use pattern and its impact on socio economic environment of Alakananda River Basin, Uttarakhand, India (F.No. 02/164/2021-22/ICSSR/MJ/RP

**Major Research Project,
ICSSR (Indian Council of Social Science Research), Ministry of Education (Govt. of India)
JNU Institutional Area, Aruna Asaf Ali Marg, New Delhi – 110067**

Photographic Evidences of Field Work , Badrinath , 2023



Data Collection & Field Survey, 2023



PROGRESS REPORT - 1

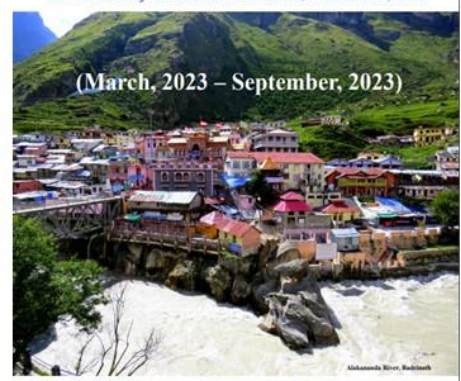
Changing Land Use Pattern and its Impact on Socio Economic Environment of Alakananda River Basin, Uttarakhand, India



Project Reference No.: F.No. 02/164/2021-22/ICSSR/MJ/RP

PROGRESS REPORT - 2

Changing Land Use Pattern and its Impact on Socio Economic Environment of Alakananda River Basin, Uttarakhand, India



Project Reference No.: F.No. 02/164/2021-22/ICSSR/MJ/RP

Major Research Project,
ICSSR (Indian Council of Social Science Research),
Ministry of Education (Govt. of India)
JNU Institutional Area, Aruna Asaf Ali Marg,
New Delhi – 110067
By
Dr. Deepa Bhattacharjee
Project Director, Major Research Project,
ICSSR (Indian Council of Social Science Research)
Department of Geography, Maheshtala College, Kolkata – 700141



Publication of the Faculties

INDIAN CARTOGRAPHER
Journal of the Indian National Cartographic Association (INCA)

डिजिटल मैपिंग इनोवേഷन्स इन मейक इंडिया इनिशियेटिव्स
Volume 40, 2020

FLUVIAL GEOMORPHOLOGY
Dr. Rajan Kumar Datta • Dr. Deepa Bhattacharyya • Subhasis Karmakar

As per CBCS Syllabus (UG HONOURS & PG) of all Universities of West Bengal & Tripura

KALYANI

**Dr. Rajan Kumar Datta
Dr. Deepa Bhattacharyya
Subhasis Karmakar**

NATIONAL ATLAS AND THEMATIC MAPPING ORGANIZATION
Department of Surveying, IIT Kharagpur, West Bengal

Disaster Risk Reduction Methods, Approaches and Practices

Gopal Krishna Panda - Uday Chatterjee - Nairwita Bandyopadhyay - Martwiti Diah Setiawati - Debarpita Banerjee Editors

Indigenous Knowledge and Disaster Risk Reduction
Insight Towards Perception, Response, Adaptation and Sustainability

Springer

43rd INCA International Congress
06-08 November 2023 - Jodhpur

Emerging Trends in Digital Cartography for Sustainable Ecosystems and Geospatial Economy

Proceedings
43rd INCA International Congress

Editors
Dandabati Durbaba - Apurba Kumar Bera - Sitirajo Srivastava Rao - Sushil Kumar Biswas

Organized by
Indian National Cartographic Association (INCA)

Hosted by
Regional Remote Sensing Centre - West National Remote Sensing Centre Indian Space Research Organisation Jodhpur

ISBN 978-81-941-2274-4

Chapter 5
Mountainous Hazards and Sustainable Livelihood in Loh Valley

Deepa Bhattacharyya and Rajan Kumar Datta

Abstract
Availability of natural resources influences the daily livelihood of the people of an area. Livelihood is higher altitudinal mountain is very challenging mostly because of diverse and geospatial characteristics of Loh valley. High-altitude mountain has natural danger spots in the development of livelihood as well as the livelihood pattern in the higher mountain area. Field-based approach and the field people about the danger spots of the valley with the socio-economic factors in very small and marginal area of the mountainous development in the valley area. The longitudinal study (NW-SE) Loh valley extends from Kanai to 30°17'N, 77°42' E to Pabna hills to 30°17'N, 77°57' E. The Loh valley formed by two parallel mountainous Lohadi and Kanai hills ranges. Lohadi range lies between the Lohadi and Kanai hills, extending to 370 miles (370 km). Undoubtedly, different types of environmental hazards like landslides, earthquakes, forest fires, soil erosion, etc. are likely to be highly impacted on the livelihood of the higher altitude and lowland area. Apart from these, scarcity of natural water resources and agricultural land has increased problem in daily livelihood of the local people. This chapter has also illustrated the recent activities of forest activities in forest conservation that also simplified the potential of hazards and disaster in Loh valley.

Keywords
Perception study • Mountainous hazard • Sustainable livelihood • Hazard mitigation

Geographical Review of India
VOL. 85, NO. 1
MARCH, 2023

THE GEOGRAPHICAL SOCIETY OF INDIA

Abstract Volume
Ministry of Earth Sciences (MoES), Government of India
THREE DAYS INTERNATIONAL CONFERENCE ON
Emerging Issues in Environment, Livelihood and Development: A Pathway Towards Sustainable Earth
07-09 November 2022

Abstract
This abstract volume contains the abstracts of the presentations made at the 43rd International Congress of the Indian National Cartographic Association (INCA) held at Jodhpur, Rajasthan, India, from 06-08 November 2022. The abstracts are arranged in the order of the sessions held during the conference. The abstracts are arranged in the order of the sessions held during the conference. The abstracts are arranged in the order of the sessions held during the conference.

ENVIRONMENTAL CHANGES IN THE 21ST CENTURY
ENVIRONMENTAL CONCERN AND SUSTAINABILITY

PROCEEDINGS OF
INTERNATIONAL CONFERENCE ON ENVIRONMENTAL SCIENCE
IUC-IGERC, University of Calicut

ISSN: 978-93-475605-6

2023

Department of Environmental Science
St. Basilios College Road
Kulthara, Kerala

Published by: Dr. Priya Bhattacharyya
Asst. Professor and Head,
Department of Environmental Science
Coimbatore Institute of Science
Editor email: pryia@coimbatore.ac.in

IMPORTANCE OF GENDER EQUITY TO REDUCE DISPARITIES IN MENTAL HEALTH DEVELOPMENT AMONG THE WOMEN OF BAKURUP SUB-DIVISION SOUTH 24 PARGANAS, WEST BENGAL

Abstract
Mental health is a complex issue that affects millions of people worldwide. It is a condition that affects the mind, emotions, and behavior. It is a condition that can be treated, but it is often difficult to diagnose and treat. The purpose of this study is to explore the importance of gender equity to reduce disparities in mental health development among the women of Bakurup sub-division South 24 Parganas, West Bengal. The study is based on a survey of 100 women in the area. The results of the study show that there is a significant correlation between gender equity and mental health development. The study also found that there are several factors that contribute to mental health disparities, such as lack of access to mental health services, stigma, and discrimination. The study concludes that gender equity is an important factor in reducing disparities in mental health development among women.

THE KONGAL GEOGRAPHER
Volume 18, June 2022
ISSN: 0974-4474, e-ISSN: 2278-1444

Abstract
The Kongal Geographer is a quarterly journal of the Kongal Geographical Society. It is a journal that is dedicated to the study of the geographical features of the Kongal region. The journal is published by the Kongal Geographical Society, which is a society of geographers and other professionals who are interested in the study of the Kongal region. The journal is published in the English language and is available to all members of the society. The journal is published in the English language and is available to all members of the society.

INTELLECTUS
INTERNATIONAL JOURNAL OF RESEARCH IN SCIENCE, TECHNOLOGY AND INNOVATION

Abstract
Intellectus is an international journal of research in science, technology and innovation. It is a journal that is dedicated to the study of the latest developments in these fields. The journal is published by Intellectus Publishing, which is a publishing house that is dedicated to the publication of research in these fields. The journal is published in the English language and is available to all members of the society. The journal is published in the English language and is available to all members of the society.

Climate And Climate - Fluvial Landform Dynamics On The Source Of Bhagirathi River, Garo Hills, Uttarakhand, India - A Geospatial Technology Based Approach

Abstract
Climate change is a global phenomenon that is affecting the entire world. It is a change in the average weather conditions over a long period of time. It is a change that is caused by the increase in the concentration of greenhouse gases in the atmosphere. The purpose of this study is to explore the relationship between climate change and fluvial landform dynamics on the source of the Bhagirathi River, Garo Hills, Uttarakhand, India. The study is based on a geospatial technology based approach. The results of the study show that there is a significant correlation between climate change and fluvial landform dynamics. The study also found that there are several factors that contribute to fluvial landform dynamics, such as the amount of rainfall, the slope of the land, and the type of vegetation. The study concludes that climate change is an important factor in fluvial landform dynamics.

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Tourism based landuse change and Recurring Land subsidence events in Jodhpur area, Utrarakhand
Deepa Bhattacharyya

Abstract
Tourism based landuse change and recurring land subsidence events in the Jodhpur area, Uttarakhand. The study is based on a field-based approach. The results of the study show that there is a significant correlation between tourism based landuse change and recurring land subsidence events. The study also found that there are several factors that contribute to land subsidence events, such as the amount of rainfall, the slope of the land, and the type of vegetation. The study concludes that tourism based landuse change is an important factor in recurring land subsidence events.

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KNOWLEDGE IS POWER

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DHIMAHI: Maheshtala College Inter disciplinary Research Forum

About the Forum:

Dhimahi is an Online International Interdisciplinary Research Forum where every fortnight we meet on Saturdays at 8pm for about an hour and half. We usually volunteer to speak on eclectic issues of academic relevance. This forum is solely for academic research and deliberation and we stay away from sensitive issues - political, communal and religious. Anyone can be a member and there are no charges. Certificate may be provided to a Resource Person after her/his lecture but we do not provide participation certificate. Participation is free and we are planning to hold an ANNUAL MEET (on site) sometime later this year.

Objectives of the Forum: The objectives of the College research forum are to foster a culture of research and innovation among students, faculty, and researchers. It aims to provide a platform for sharing and discussing research findings, promoting interdisciplinary collaboration, and enhancing research skills. The forum also seeks to encourage critical thinking, knowledge dissemination, and the development of solutions to real-world problems through research endeavours.

Obstacles faced if any and strategies adopted to overcome them:

The DHIMAHI may encounter various obstacles that can hinder its effectiveness. One of the primary challenges is maintaining active participation and engagement from participants, as online platforms can sometimes lack the personal interaction and motivation found in face-to-face settings. To overcome this, the forum can implement strategies such as hosting interactive webinars, virtual panel discussions, and Q&A sessions to encourage active involvement. Providing incentives like certificates or recognition for active participation can also help generate interest and motivation among participants.

Another obstacle is the potential for technical difficulties or connectivity issues during online sessions. To address this, the forum can conduct trial runs and offer technical support to participants beforehand. Utilizing reliable online platforms and ensuring a stable internet connection are essential. Moreover, providing clear instructions and guidelines for accessing and navigating the online forum can help participants overcome any technical challenges they may encounter.

Ensuring inclusivity and accessibility is another important consideration. Some participants may face limitations in terms of technology access, language barriers, or disabilities. The forum can mitigate these obstacles by offering alternative formats such as transcripts, subtitles, or sign language interpretation for participants with hearing or visual impairments. Additionally, providing multilingual support or translation services can facilitate participation from a diverse range of individuals.

Lastly, maintaining data security and privacy is crucial in an online research forum. Strategies like using secure and encrypted communication channels, implementing user authentication measures, and obtaining informed consent for data sharing can help protect participants' privacy and ensure the integrity of the research discussions.

By proactively addressing these obstacles and adopting suitable strategies, the DHIMAHI can create an inclusive, engaging, and productive platform for researchers and participants to collaborate effectively.



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☎: 6289482452 (Office)
Website: www.maheshtalacollege.ac.in

Impact of the Forum:

The practice of the DHIMAHI - Maheshtala College Interdisciplinary Research Forum has had a profound impact on both students and faculty members. By fostering collaboration and knowledge-sharing across different disciplines, the forum has created a vibrant intellectual space that transcends traditional academic boundaries. Students have been able to explore new perspectives and develop a holistic understanding of complex issues by engaging with peers and experts from various fields. This interdisciplinary approach has not only enhanced critical thinking and problem-solving skills but has also inspired innovative research projects that address real-world challenges. Moreover, faculty members have witnessed increased synergy in their work, leading to interdisciplinary research collaborations and the publication of groundbreaking studies. Overall, the Maheshtala College Interdisciplinary Research Forum has nurtured a culture of interdisciplinary learning, propelling both individual growth and collective intellectual advancement.

Resources required:

The Maheshtala College Online Interdisciplinary Research Forum requires specific resources for effective virtual collaboration. These include a reliable online platform with features like video conferencing and document sharing, high-speed internet for seamless interactions, access to a virtual library with digital resources, research tools and software, digital documentation and storage solutions, virtual mentoring and support, online workshops and webinars with experts, funding support, and technical assistance. These resources enable participants to engage in interdisciplinary research, access relevant literature, collaborate effectively, and receive guidance and support in an online environment.

About the Institution

Name of the Institution: MAHESHTALA COLLEGE

ii. Year of Accreditation:2016

iii. Address: BUDGE BUDGE TRUNK ROAD, KOLKATA-700141

iv. Grade awarded by NAAC: B+

v. E-Mail:maheshtalacollege@yahoo.com

vi. Contact person for further details: 7439501363 /6289482452

vii. Website:<https://www.maheshtalacollege.ac.in>



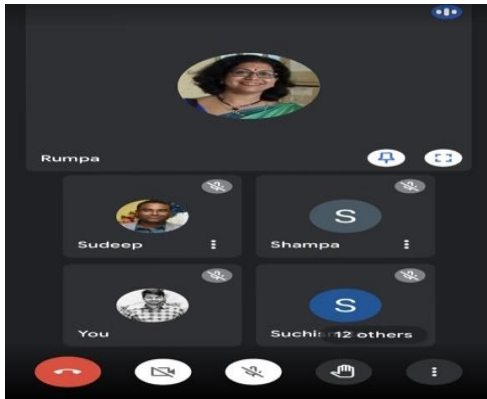
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Website: www.maheshtalacollege.ac.in

DHIMAHI: Maheshtala College Interdisciplinary Research Forum 1st meeting

DATE – 17.07.2021
TIME 8-9:40PM

- **NAME OF SPEAKER:** DR. RUMPA DAS (Principal, Maheshtala College), PROF. SUDEEP SARKAR (Assistant Professor, Department of Education)
- **TOPIC OF DISCUSSION:** Introduction, Objectives, impact & resources required for this forum.
- **NAME OF PARTICIPANTS:** – DR. RUMPA DAS (Principal, Maheshtala College), DR. SUCHANDRA BHATTACHARYA, PROF. SHAMPA DASGIPTA, DR. DEEPA BHATTACHARYA, PROF. LIPI HALDER, DR. SHARBANI CHATTOPADHAYAYA, PROF. SONATAN SOREN, PROF. MD JOHAED, PROF. AMIYA SARKAR PROF. DEEPSIKHA MUTSUDDI, PROF. DIPANWITA SARKAR, PROF. RANAJIT DAS, PROF. MONAMI BASU, PROF. RAI SARKAR, PROF. SUCHISMITA NEOGI, PROF. ASIS NASKAR, PROF. SALINI GHOSH. PPOF. KAKALI GHOSAL, PROF. JUYEL ALI, PROF. KAILASH MAHATO, DR. MONAMI BASU.





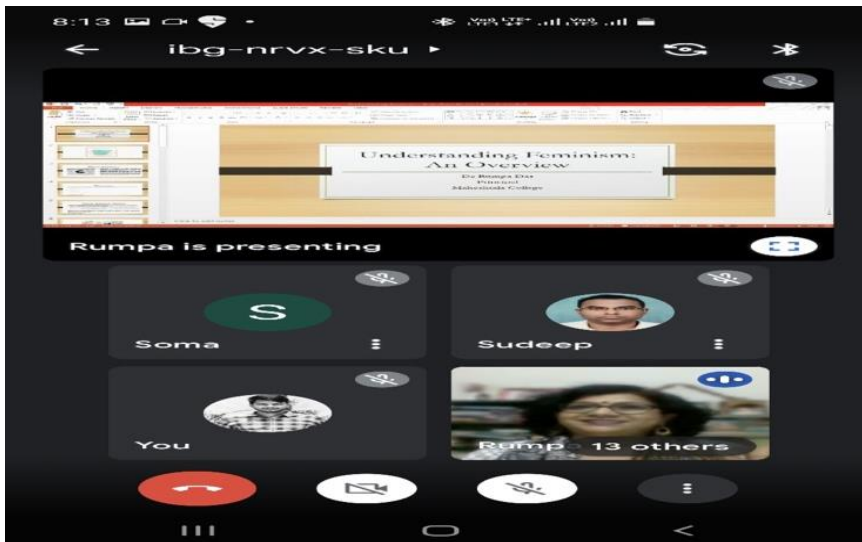
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☎: 6289482452 (Office)
Website: www.maheshtalacollege.ac.in

DHIMAHI - Maheshtala College Interdisciplinary Research Forum 2nd meeting

DATE – 14.08.2021
TIME 8-9:30PM

- **NAME OF SPEAKER: DR. RUMPA DAS (PRINCIPAL, MAHESHTALA COLLEGE).**
- **TOPIC OF DISCUSSION: *Understanding Feminism: An Overview(1st Session)***
- **NAME OF PARTICIPANTS:** DR. SUCHANDRA BHATTACHARYA, PROF.SHAMPA DASGIPTA, DR. DEEPA BHATTACHARYA, PROF. LIPI HALDER,DR. SHARBANI CHATTOPADHAYAYA, PROF. SONATAN SOREN, PROF. MD JOHAED, PROF AMIYA SARKAR PROF. DEEPSIKHA MUTSUDDI, PROF. DIPANWITA SARKAR, PROF. RANAJIT DAS, PROF. MONAMI BASU, PROF. RAI SARKAR, PROF. SUCHISMITA NEOGI, PROF. ASIS NASKAR, PROF. SALINI GHOSH, PROF. JUYEL ALI , PROF. KAILASH MAHATO, DR. MONAMI BASU.





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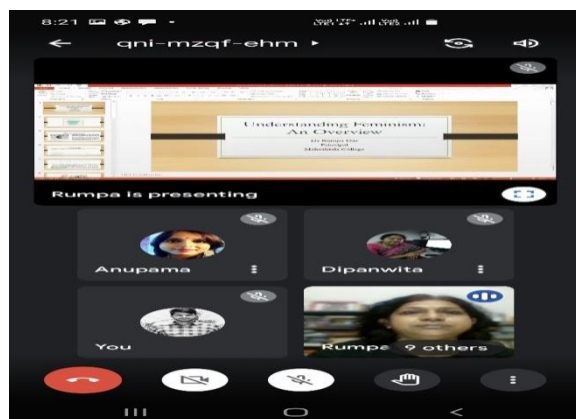
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DHIMAHI: Maheshtala College Interdisciplinary Research Forum 3rd meeting

DATE – 21.08.2021

TIME 8-9:40PM

- **NAME OF SPEAKER: DR. RUMPA DAS (PRINCIPAL, MAHESHTALA COLLEGE).**
- **TOPIC OF DISCUSSION: Understanding Feminism: An Overview (2nd Session)**
- **NAME OF PARTICIPANTS:** DR. SUCHANDRA BHATTACHARYA, PROF.SHAMPA DASGIPTA, DR. DEEPA BHATTACHARYA, PROF. LIPI HALDER, DR. SHARBANI CHATTOPADHAYAYA, PROF. SONATAN SOREN, PROF. MD JOHAED, PROF AMIYA SARKAR PROF. DEEPSIKHA MUTSUDDI, PROF. DIPANWITA SARKAR, PROF. RANAJIT DAS, PROF. MONAMI BASU, PROF. RAI SARKAR, PROF. SUCHISMITA NEOGI, PROF. ASIS NASKAR, PROF. SALINI GHOSH, PROF. JUYEL ALI, PROF. KAILASH MAHATO, DR. MONAMI BASU, PROF AYAN PAL, PROF.ANISHA CHAKROBORTY, PROF. SOMA MUKHERJEE.





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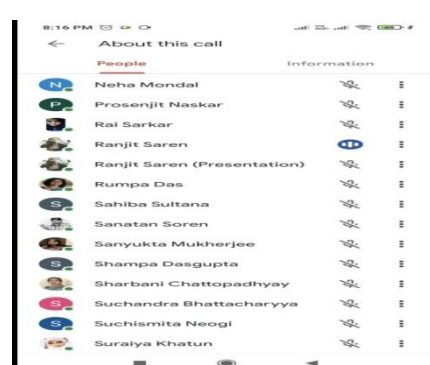
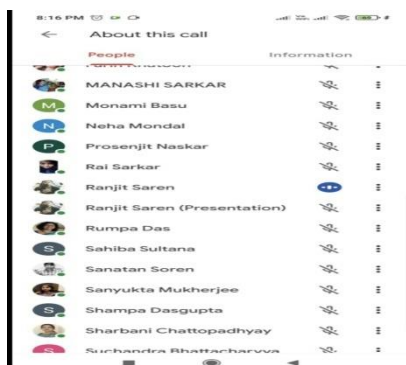
DHIMAHI: Maheshtala College Interdisciplinary Research Forum

4th Meeting

DATE – 04.09.2021

TIME 8PM-9:30PM

- **NAME OF SPEAKER:** Prof. Sonatan Soren (Assistant Professor, Department of History, Maheshtala College).
- **TOPIC OF DISCUSSION:** **Global Terrorism: Afghanistan & America (1979-2001)**
- **NAME OF PARTICIPANTS:** DR. RUMPA DAS (PRINCIPAL, MAHESHTALA COLLEGE), DR. SUCHANDRA BHATTACHARYA, PROF. SHAMPA DASGIPTA, DR. DEEPA BHATTACHARYA, PROF. LIPI HALDER, DR. SHARBANI CHATTOPADHAYAYA, PROF. SONATAN SOREN, PROF. MD JOHAED, PROF. AMIYA SARKAR, PROF. DEEPSIKHA MUTSUDDI, PROF. DIPANWITA SARKAR, PROF. RANAJIT DAS, PROF. MONAMI BASU, PROF. RAI SARKAR, PROF. SUCHISMITA NEOGI, PROF. ASIS NASKAR, PROF. SALINI GHOSH, PROF. JUYEL ALI, PROF. KAILASH MAHATO, DR. MONAMI BASU, PROF. DEBASISH MITRA (ASSISTANT PROF. OF DIAMOND HARBOUR WOMENS' UNIVERSITY), PROF. SAHEB HEMBRAM (ASSISTANT PROF. OF SHYAMAPRASAD MUKHERJEE COLLEGE), PRASENJIT NASKAR (RESEARCH FELLOW, JU).





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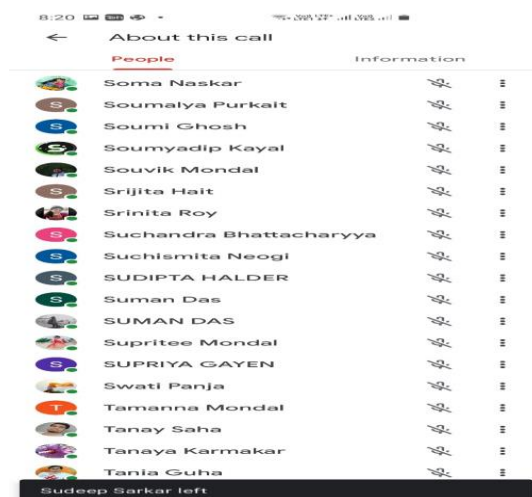
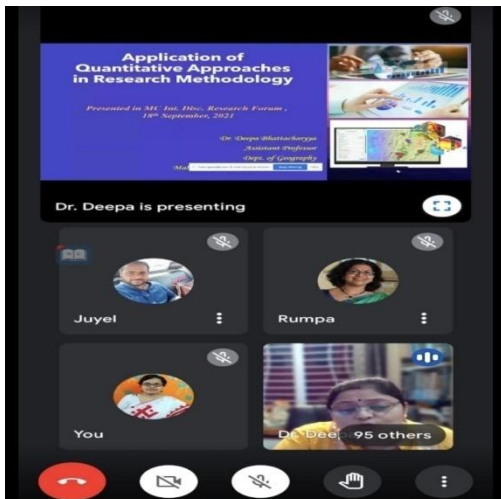
INTERDISCIPLINARY RESEARCH FORUM MAHESHTALA COLLEGE

5th Meeting

DATE – 18.09.2021

TIME 8PM-9PM

- **NAME OF SPEAKER:** Dr. Deepa Bhattacharya (Assistant Professor, Department of Geography, Maheshtala College).
- **TOPIC OF DISCUSSION:** Application of Quantitative Approaches in Research Methodology.
- **NAME OF PARTICIPANTS:** DR. RUMPA DAS (PRINCIPAL, MAHESHTALA COLLEGE), DR. SUCHANDRA BHATTACHARYA, PROF. SHAMPA DASGIPTA, DR. DEEPA BHATTACHARYA, PROF. LIPI HALDER, DR. SHARBANI CHATTOPADHAYAYA, PROF. SONATAN SOREN, PROF. MD JOHAED, PROF. AMIYA SARKAR, PROF. DEEPSIKHA MUTSUDDI, PROF. DIPANWITA SARKAR, PROF. RANAJIT DAS, PROF. MONAMI BASU, PROF. RAI SARKAR, PROF. SUCHISMITA NEOGI, PROF. ASIS NASKAR, PROF. SALINI GHOSH, PROF. JUYEL ALI, PROF. KAILASH MAHATO, SOUMYADEEP MONDAL (RESEARCHER, LONDON SCHOOL OF ECONOMICS).





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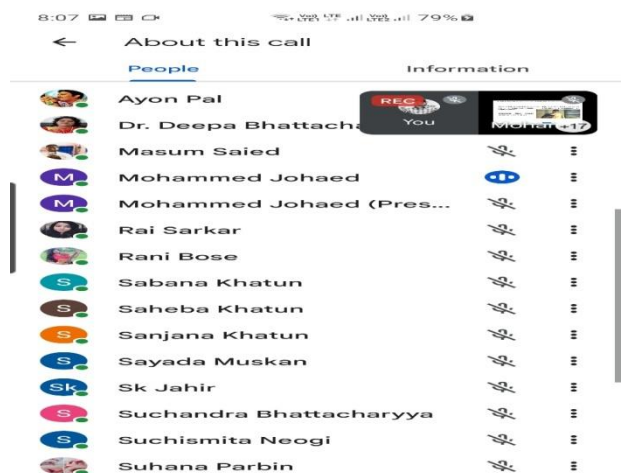
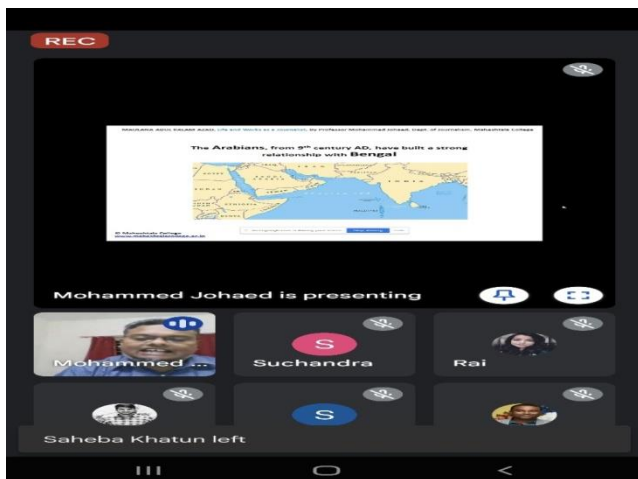
INTERDISCIPLINARY RESEARCH FORUM MAHESHTALA COLLEGE

6th Meeting

DATE – 27.112021

TIME 8PM-8:45PM

- **NAME OF SPEAKER:** Dr. Deepa Bhattacharya (Assistant Professor, Department of Geography, Maheshtala College).
- **TOPIC OF DISCUSSION:** **Abul Kalam Azad: An account of his life and works as a journalist.**
- **NAME OF PARTICIPANTS:** DR. RUMPA DAS (PRINCIPAL, MAHESHTALA COLLEGE), DR. SUCHANDRA BHATTACHARYA, PROF.SHAMPA DASGIPTA, DR. DEEPA BHATTACHARYA, PROF. LIPI HALDER, DR. SHARBANI CHATTOPADHAYAYA, PROF. SONATAN SOREN, PROF. MD JOHAED, PROF AMIYA SARKAR PROF. DEEPSIKHA MUTSUDDI, PROF. DIPANWITA SARKAR, PROF. RANAJIT DAS, PROF. MONAMI BASU, PROF. RAI SARKAR, PROF. SUCHISMITA NEOGI, PROF. ASIS NASKAR, PROF. SALINI GHOSH.





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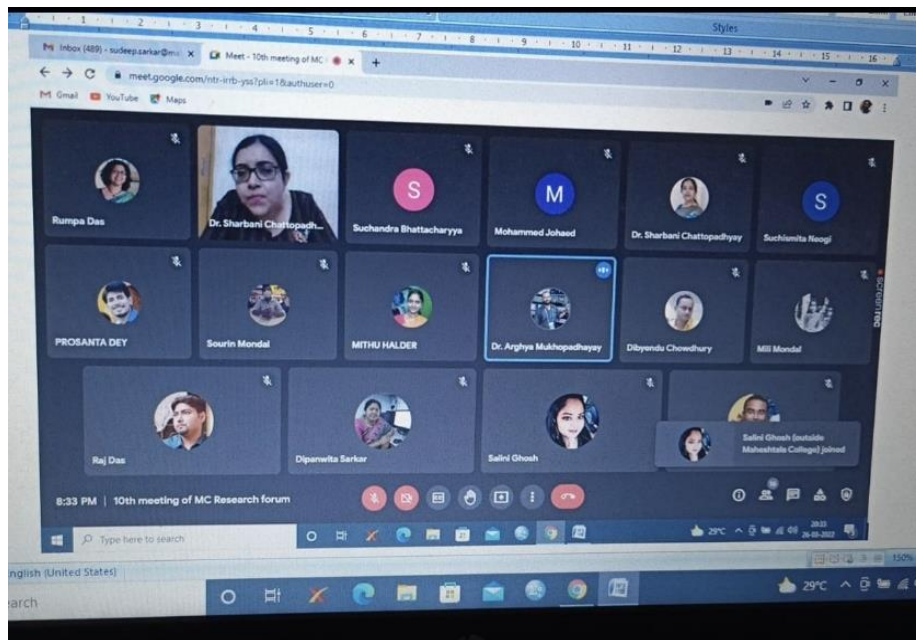
INTERDISCIPLINARY RESEARCH FORUM MAHESHTALA COLLEGE

7th Meeting

DATE – 25.03.22

TIME 8PM-9:45PM

- **NAME OF SPEAKER:** Dr. Sharbani Chattopadhyay (Assistant Professor, Department of Sanskrit, Maheshtala College).
- **TOPIC OF DISCUSSION:** **Maharshi Bharata's Rasasutra, types of rasa and its application in performing Arts of India: A brief account.**
- **NAME OF PARTICIPANTS:** DR. RUMPA DAS (PRINCIPAL OF MAHESHTALA COLLEGE), PROF. SUCHANDRA BHATTACHARYYA, PROF. SUDEEP SARKAR, PROF. PRASANTA DEY, PROF. MD JOHAED, PROF. DIPANWITA SARKAR, PROF. SUCHISMITA NEOGI, PROF. DIBYENDU CHOWDHURY, PROF. SHALINI GHOSH, PROF. MITHU HALDER, PROF. RAJ DAS.





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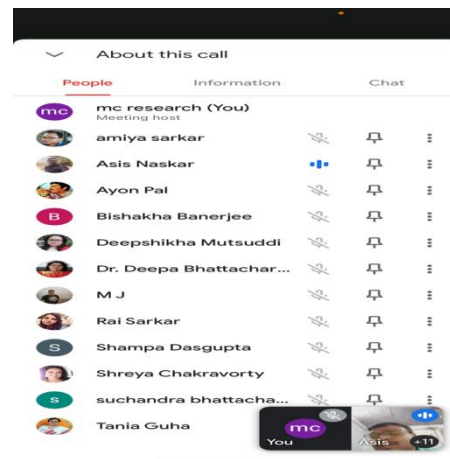
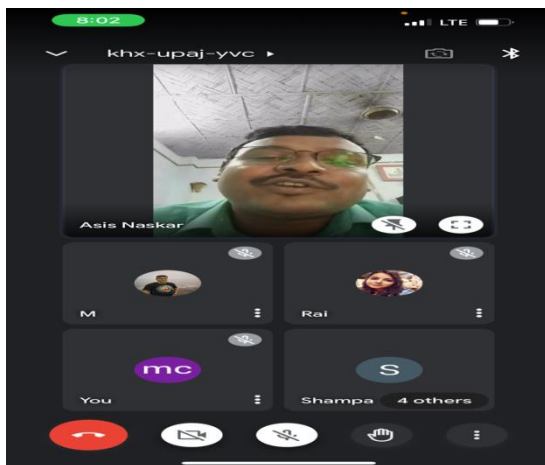
INTERDISCIPLINARY RESEARCH FORUM MAHESHTALA COLLEGE

8th Meeting

DATE – 27.08.22

TIME 8PM-9PM

- **NAME OF SPEAKER:** Prof Asish Naskar, SACT, Dept. Of Political Science, Maheshtala College.
- **TOPIC OF DISCUSSION:** Revisiting Untouchability in the Context of the Gandhi-Ambedkar Debate.
- **NAME OF PARTICIPANTS:** DR. SUCHANDRA BHATTACHARYYA, PROF. SHAMPA DASGUPTA, DR. DEEPA BHATTACHARYA, PROF. AMIYA SARKAR, PROF. SUDEEP SARKAR, PROF. SONATAN SOREN, PROF. MD JOHAED, PROF. DEEPSIKHA MUTSUDDI, PROF. RAI SARKAR, PROF. TANIA GUHA, PROF. AYAN PAL, PROF. SHREYA CHAKRABORTY.





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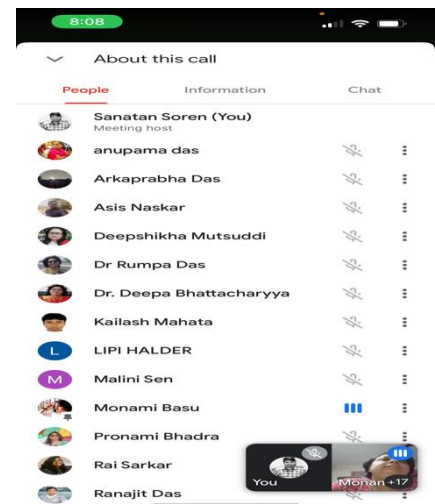
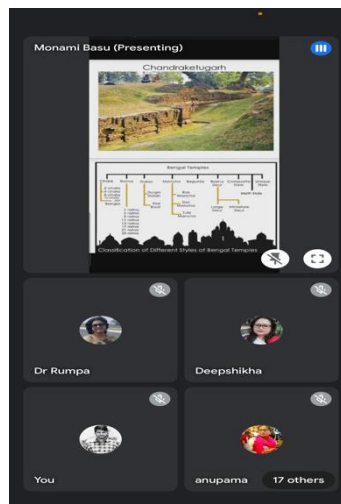
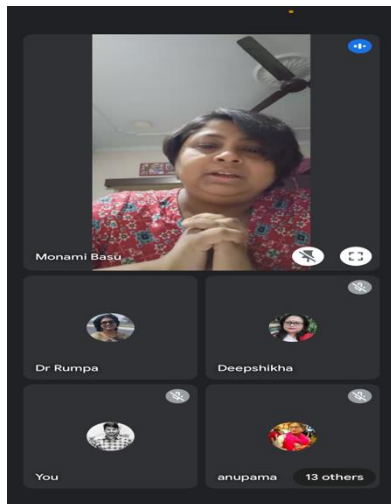
INTERDISCIPLINARY RESEARCH FORUM MAHESHTALA COLLEGE

9th Meeting

DATE – 21.04.23

TIME 8PM-9:30PM

- **NAME OF SPEAKER** – Dr.MONAMI BASU, SACT, DEPT. OF BENGALI, MAHESHTALA COLLEGE
- **TOPIC OF DISCUSSION**–TEMPLE ARCHITECTURE OF BENGAL
- **NAME OF PARTICIPANTS** –DR. RUMPA DAS (Principal, Maheshtala College),DR. SUCHANDRA BHATTACHARYYA, PROF MALINI SEN, DR. SUDIPTA JANA,DR.DEEPA BHATTACHARYYA,PROF.LIPI HALDER, PROF. SUBHASIS DE, PROF. SONATAN SOREN,PROF. DEEPSIKHA MUTSUDDI,PROF. RANAJIT DAS, PROF. RAI SARKAR,PROF. SUCHISMITA NEOGI PROF. ANUPAMA DAS, PROF. TANIA GUHA, PROF. PRONAMI BHADRA, PROF. ASIS NASKAR, PROF. SALINI GHOSH, PROF. KAILASH MAHATA.





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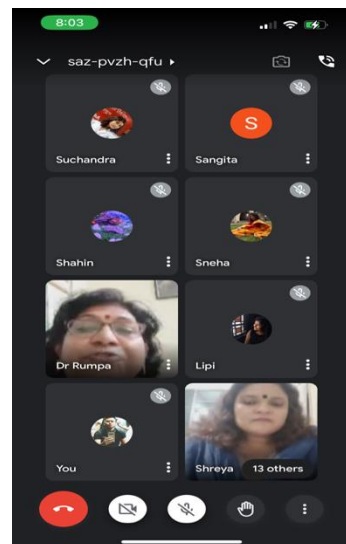
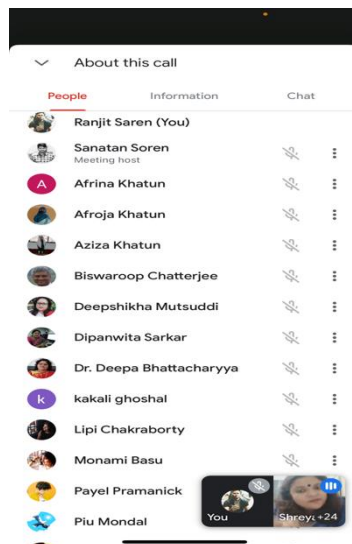
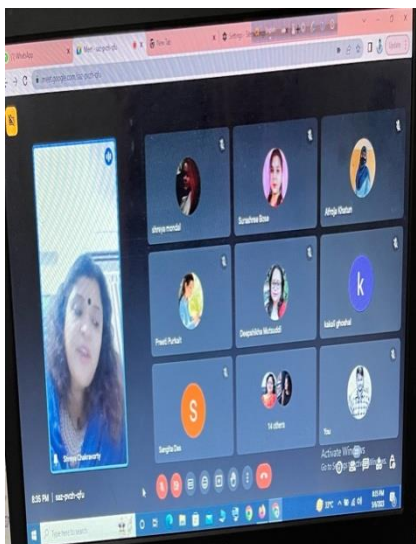
INTERDISCIPLINARY RESEARCH FORUM MAHESHTALA COLLEGE

10th Meeting

DATE – 06.05.23

TIME 8PM-9:10PM

- **NAME OF SPEAKER** – Dr. SHREYA CHAKRABORTY, Assistant Professor, Department of English, Budge Budge College.
- **TOPIC OF DISCUSSION**– **BANKIMCHANDRA AND MESMARISM.**
- **NAME OF PARTICIPANTS** –DR. RUMPA DAS (Principal, Maheshtala College), DR. SUCHANDRA BHATTACHARYA, DR. DEEPA BHATTACHARYA, PROF. SONATAN SOREN, PROF. MD JOHAED, PROF. DEEPSIKHA MUTSUDDI, PROF. DIPANWITA SARKAR, PROF. RANAJIT DAS, PROF. MONAMI BASU, PROF. RAI SARKAR, PROF. ASIS NASKAR, PROF. SALINI GHOSH. PPOF. KAKALI GHOSAL.



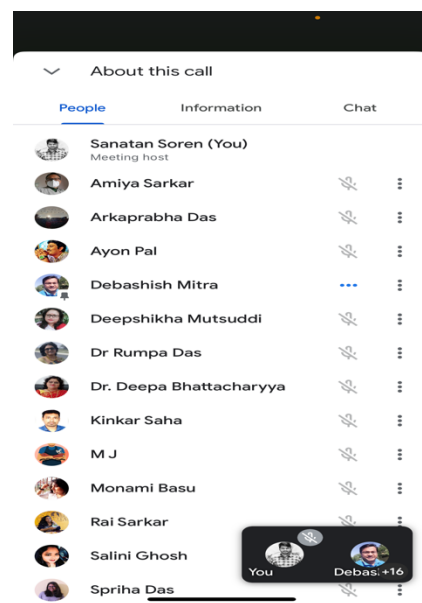
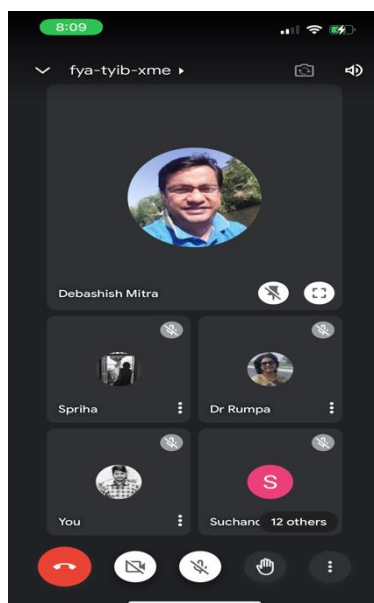
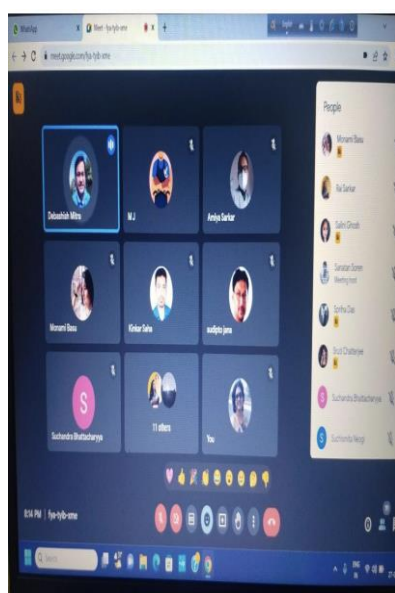
INTERDISCIPLINARY RESEARCH FORUM MAHESHTALA COLLEGE

11th Meeting

DATE – 27.05.23

TIME 8PM-9:20PM

- **NAME OF SPEAKER** – DR. DEBASISH MITRA (Associate Professor, Department of Political Science, Diamond Harbour Women’s University)
- **TOPIC OF DISCUSSION** – Nationalism or Ethnocentrism: Relevance and Construction.
- **NAME OF PARTICIPANTS** – DR. RUMPA DAS (PRINCIPAL OF MAHESHTALA COLLEGE), DR.SUCHANDRA BHATTACHARYYA, DR. SUDIPTO JANA,DR. DEEPA BHATTACHARYA,PROF. DEEPSHIKHA MUTSUDDI, PROF. AMIYA SARKAR, PROF. SONATAN SOREN, PROF, MD. JOHAED, PROF. DIPANWITA SARKAR, PROF. ASIS NASKAR, DR. MONAMI BASU, PROF. RAI SARKAR , PROF. SUCHISMITA NEOGI, PROF. AYON PAL, PROF. SALINI GHOSH, DR. KINKAR SAHA, SPRIHA DAS, RANVEER SINGH, ARKAPRABHA DAS, SRUTI CHATTERJEE.





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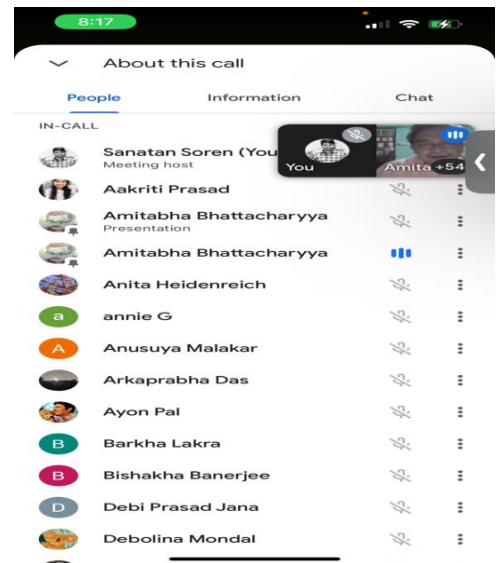
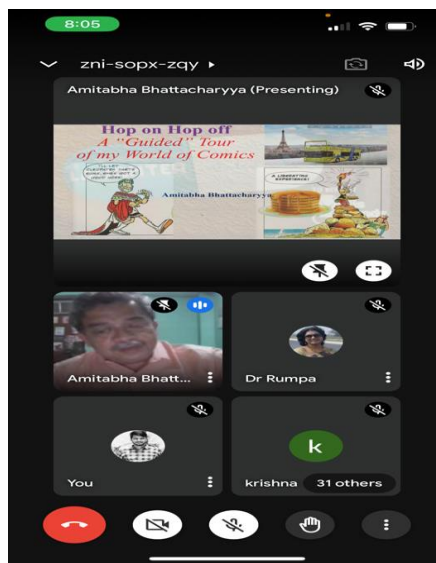
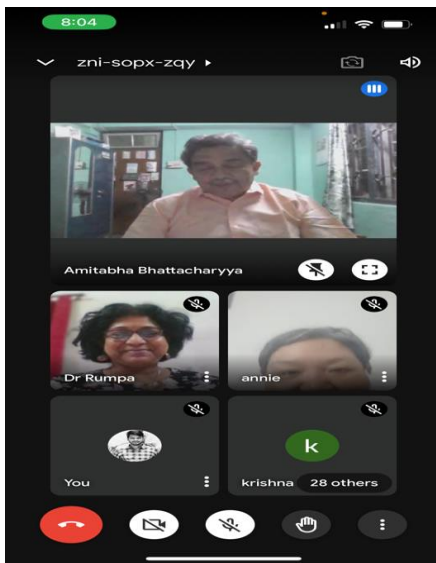
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INTERDISCIPLINARY RESEARCH FORUM
MAHESHTALA COLLEGE
12th Meeting
DATE – 03.06.23
TIME 8PM-9:10PM

● **NAME OF SPEAKER** – DR. AMITABHABHATTACHARYYA, ASSOCIATE PROFESSOR, DEPARTMENT OF PHYSICS, SIKKIM UNIVERSITY.

● **TOPIC OF DISCUSSION** – **Hop on, Hop off: A Guided Tour of my World of Comics.**

● **NAME OF PARTICIPANTS** – DR. RUMPA DAS (PRINCIPAL OF MAHESHTALA COLLEGE), DR.SUCHANDRA BHATTACHARYYA, PROF. SHAMPA DASGUPTA, PROF. KABITA MONDAL,DR. SUDIPTO JANA, DR. DEEPA BHATTACHARYA,DR. SHARBANI CHATTOPADHYAY, PROF. SUBHASIS DE, PROF. SHREYA BHATTACHARJI, PROF. BARUN BISWAS, PROF. DEEPSHIKHA MUTSUDDI, PROF.MALINI SEN, PROF. SONATAN SOREN, PROF, MD. JOHAED, PROF. DIPANWITA SARKAR, PROF. ASIS NASKAR, DR. MONAMI BASU, PROF. RAI SARKAR ,PROF. AYON PAL, PROF. SALINI GHOSH, PROF. DEBIPRASAD JANA, PROF. BISAKHA BANERJEE,PROF. PRASANTA PAUL, PROF. SASANKA SELHAR MAITY,DR. SREYASI CHATTERJEE, SPRIHA DAS, ARKAPRABHA DAS, SRUTI CHATTERJEE, PRITY CHOUDHARY,DEBOLINAMONDAL, SOUMYADEEP HALDER, PARTHA SARATHI DAS, BARKHA R. LAKRA,SULAGNA DUTTA,AAKRITI PRASAD, ANUSUA MALAKAR, KEYA NANDY, LAWRENCE REISNER, LISA THOMAS, PUJA MAJHI, RICHA PALLAVI, SANCHARI AMBOLI, VIKASH KUMER,APARAJITA GURUNG,PRAHANT DUTTA,ROHIT PORWAL, RUPAK MUKHERJEE,BEDIKA BHATTACHARJEE, ANKITA SAHA, SOUMEN MALLIK, SUMANA MAJI, SOVAN CHAKRABORTY, SREEPARNA NATH, PRONAB DEY, KRISHNENDU DAS , DIPANJAN MITRA. JOYJIT GHOSH.





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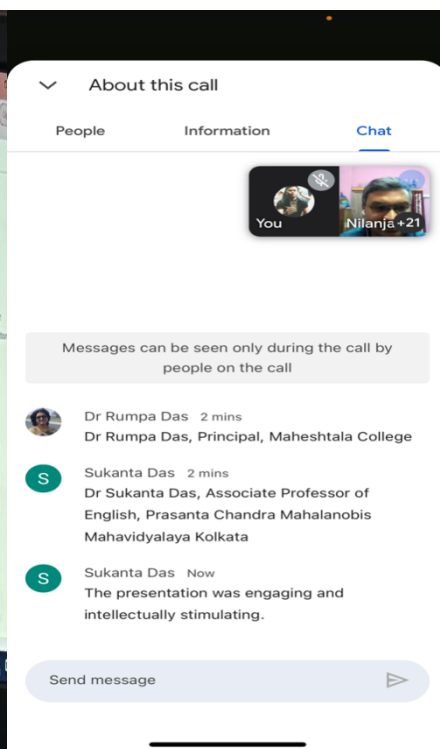
INTERDISCIPLINARY RESEARCH FORUM MAHESHTALA COLLEGE

13th Meeting

DATE – 17.06.23

TIME 8PM-9:17PM

- **NAME OF SPEAKER** – DR. NILANJAN CHAKRABORTY, ASSISTANT PROFESSOR, DEPARTMENT OF ENGLISH, PANCHLA MAHAVIDYALAYA.
- **TOPIC OF DISCUSSION** – **AFRICAN LITERATURE: THE BLACK JOY.**
- **NAME OF PARTICIPANTS** – DR. RUMPA DAS (PRINCIPAL OF MAHESHTALA COLLEGE), DR. DEEPA BHATTACHARYA, DR. SHARBANI CHATTOPADHYAY, PROF. DEEPSHIKHA MUTSUDDI, PROF. MALINI SEN, PROF. SONATAN SOREN, PROF. MD. JOHAED, PROF. DIPANWITA SARKAR, PROF. ASIS NASKAR, DR., PROF. RAI SARKAR, PROF. SUCHISMITA NEOGI, DR. SUPRIYA BANERJEE, PROF. BISAKHA BANERJEE, PROF. DR. SREYASI CHATTERJEE, DR. SUKANTA DAS, PIYALI GOSWAMI, PROMA GOSWAMI, SANJAY DHALI, SAYANTI MONDAL, SAYARI GOSWAMI, SOHINI ROY, SWASTIKA SENGUPTA, VIKASH KUMER, RUPAM GHOSH, SANJAY DHALI, SATABDI CHATTERJEE, SAYARI GOSWAMI, SOFIA NAZMIN, MONIKA RANI, NEHA GHOSH, OISIKHA MUKHERJEE, PRITY CHOUDHARY, CHAMELI JANA, DEBARPITA ROY.





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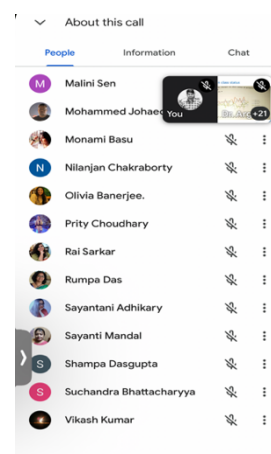
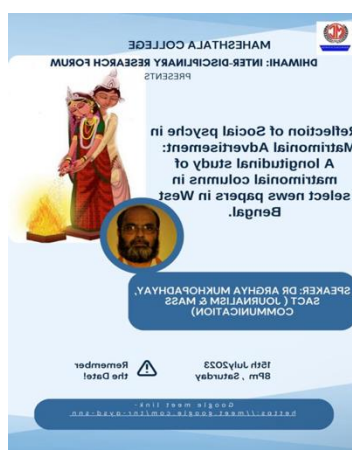
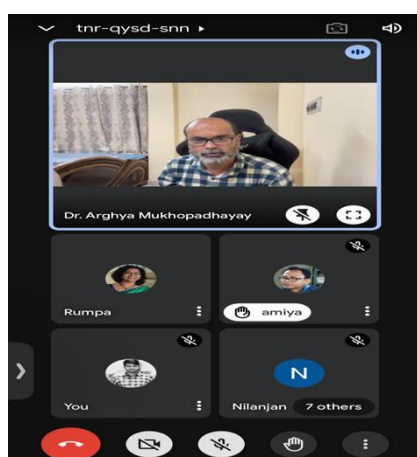
INTERDISCIPLINARY RESEARCH FORUM MAHESHTALA COLLEGE

14th Meeting

DATE – 15.07.23

TIME 8PM-9:30PM

- **NAME OF SPEAKER – DR. ARGHYA MUKHOPADHYAY, SACT (JOURNALISM & MASS COMMUNICATION).**
- **TOPIC OF DISCUSSION – Reflection of Social psyche in Matrimonial Advertisement: A longitudinal study of matrimonial columns in select newspapers in West Bengal.**
- **NAME OF PARTICIPANTS – DR. RUMPA DAS (PRINCIPAL OF MAHESHTALA COLLEGE), DR. DEEPA BHATTACHARYA, DR. SHARBANI CHATTOPADHYAY, PROF. DEEPSHIKHA MUTSUDDI, PROF. MALINI SEN, PROF. SONATAN SOREN, PROF. MD. JOHAED, PROF. DIPANWITA SARKAR, PROF. ASIS NASKAR, DR., PROF. RAI SARKAR, PROF. SUCHISMITA NEOGI. DR. MONAMI BASU, PROF. NILANJAN CHAKRABORTY, PROF. SHAMPA DASGUPTA, DR. SUCHAMDRA BHATTACHARYA, SAYANTI MONDAL, SAYANTANI ADHIKARY, VIKASH KUMER.**





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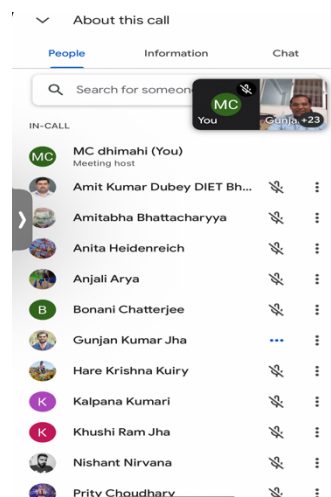
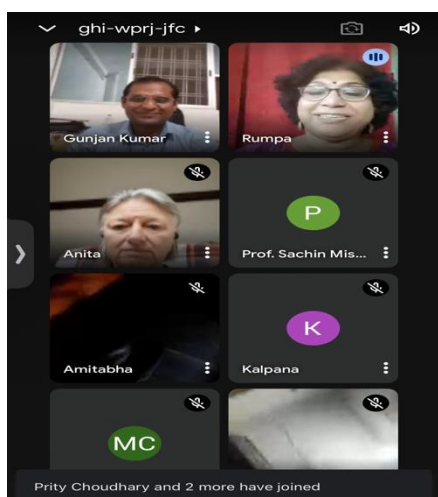
INTERDISCIPLINARY RESEARCH FORUM MAHESHTALA COLLEGE

15th Meeting

DATE – 29.07.23

TIME 8PM-9:30PM

- **NAME OF SPEAKER** – GUNJAN KUMAR JHA, SENIOR RESEARCH FELLOW, DEPARTMENT OF ENGLISH STUDIES, CENTRAL UNIVERSITY OF JHARKHAND, SUPERVISOR- PROF.(DR.) SHREYA BHATTACHARJI.
- **TOPIC OF DISCUSSION** – **Historical Detective Fiction & Neo-Victorianism: Unmasking Edward Marston's God of Sin in Murder on the Brighton Express.**
- **NAME OF PARTICIPANTS** – DR. RUMPA DAS (PRINCIPAL OF MAHESHTALA COLLEGE), DR. DEEPA BHATTACHARYA, DR. SHARBANI CHATTOPADHYAY, PROF. DEEPSHIKHA MUTSUDDI, PROF. MALINI SEN, PROF. SONATAN SOREN, PROF. MD. JOHAED, PROF. DIPANWITA SARKAR, PROF. ASIS NASKAR, DR., PROF. RAI SARKAR, PROF. SUCHISMITA NEOGI, DR. SUPRIYA BANERJEE, PROF. BISAKHA BANERJEE, PROF. DR. SREYASI CHATTERJEE, DR. SUKANTA DAS, PIYALI GOSWAMI, PROMA GOSWAMI, SANJAY DHALI, SAYANTI MONDAL, SAYARI GOSWAMI, SOHINI ROY, SWASTIKA SENGUPTA, VIKASH KUMER, RUPAM GHOSH, SANJAY DHALI, SATABDI CHATTERJEE, SAYARI GOSWAMI, SOFIA NAZMIN, MONIKA RANI, NEHA GHOSH, OISIKHA MUKHERJEE, PRITY CHOUDHARY, CHAMELI JANA, DEBARPITA ROY, AMIT KUMER DUBEY, ANITA HEIDENREICH, ANJALI ARYA, BONANI CHATTERJEE, HARE KRISHNA KUIRY, KALPANA KUMARI, KHUSI RAM JHA, PRITY CHOUDHURY.





MAHESHTALA COLLEGE

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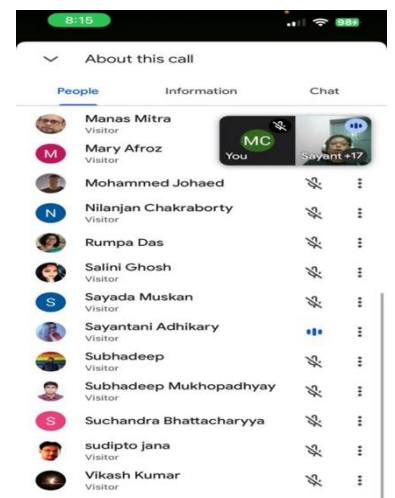
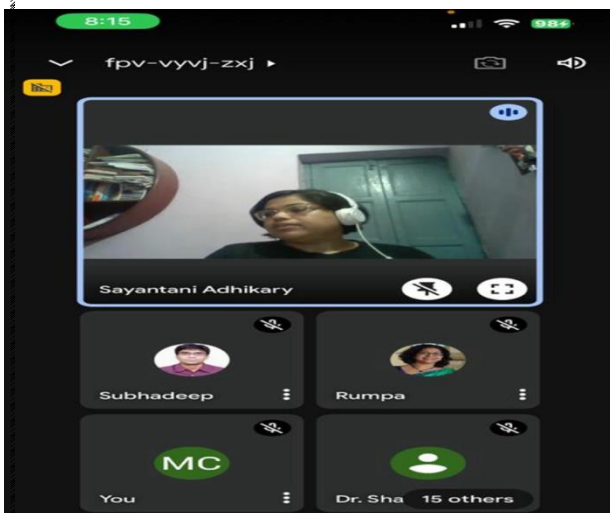
INTERDISCIPLINARY RESEARCH FORUM MAHESHTALA COLLEGE

16th Meeting

DATE – 25.08.23

TIME 8PM-9:30PM

- **NAME OF SPEAKER** – PROF. SAYANTANI ADHIKARY, ASSISTANT PROFESSOR, DEPARTMENT OF HISTORY, SADHAN CHANDRA MAHAVIDYALAYA.
- **TOPIC OF DISCUSSION** – **DANCE AS PHYSICAL CULTURE: PERSPECTIVES IN LATE COLONIAL BENGAL.**
- **NAME OF PARTICIPANTS** – DR. RUMPA DAS (PRINCIPAL OF MAHESHTALA COLLEGE), DR.SUCHANDRA BHATTACHARYYA, DR. SUDIPTO JANA, DR. DEEPA BHATTACHARYA, PROF. DEEPSHIKHA MUTSUDDI, PROF. AMIYA SARKAR, PROF. SONATAN SOREN, PROF, MD. JOHAED, PROF. DIPANWITA SARKAR, PROF. ASIS NASKAR, DR. MONAMI BASU, PROF. RAI SARKAR , PROF. SUCHISMITA NEOGI, PROF. AYON PAL, PROF. SALINI GHOSH, PROF. MANAS GHOSH, PROF. NILANJAN CHAKRABORTY, MARY AFROZ, SAYADA MUSKAN, SUBHADEEP MUKHOPADHYAY, VIKASH KUMER.





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INTERDISCIPLINARY RESEARCH FORUM

MAHESHTALA COLLEGE

17th Meeting

DATE – 23.09.23

TIME 8PM-9:35PM

- **NAME OF SPEAKER- DR. RUMPA DAS (PRINCIPAL, MAHESHTALA COLLEGE).**
- **TOPIC OF DISCUSSION – Contemporary Women-Centric Films and Web series: Propagating Myth as Reality?**
- **NAME OF PARTICIPANTS - DR.SUCHANDRA BHATTACHARYYA, PROF. SHAMPA DASGUPTA, DR. DEEPA BHATTACHARYA, DR. SHARBANI CHATTOPADHYAY, PROF. DEEPSHIKHA MUTSUDDI, PROF. MALINI SEN, PROF. SONATAN SOREN, PROF. MD. JOHAED, PROF. DIPANWITA SARKAR, PROF. ASIS NASKAR, DR., PROF. RAI SARKAR, PROF. SUCHISMITA NEOGI, DR. SUPRIYA BANERJEE, PROF. BISAKHA BANERJEE, PROF. DR. SREYASI CHATTERJEE, DR. SUKANTA DAS, PIYALI GOSWAMI, PROMA GOSWAMI, SANJAY DHALI, SAYANTI MONDAL, SAYARI GOSWAMI, SOHINI ROY, SWASTIKA SENGUPTA, VIKASH KUMER, RUPAM GHOSH, SANJAY DHALI, SATABDI CHATTERJEE, SAYARI GOSWAMI, SOFIA NAZNIN, MONIKA RANI, NEHA GHOSH, OISIKHA MUKHERJEE, PRITY CHOUDHARY, CHAMELI JANA, DEBARPITA ROY, AMIT KUMER DUBEY, ANITA HEIDENREICH, ANJALI ARYA, BONANI CHATTERJEE, HARE KRISHNA KUIRY, KALPANA KUMARI, KHUSI RAM JHA, PRITY CHOUDHURY, AMITABHA BHATTACHARYA, SPRIHA DAS, ROSHAN RAJ SINGH.**

Topic - Contemporary Women Centric Films and Web series: Propagating Myth as Reality?

SPEAKER: DR. RUMPA DAS, PRINCIPAL, MAHESHTALA COLLEGE

8 PM, SATURDAY
23TH SEPT. 2023

Google Meet link: <https://meet.google.com/beh-cztc-zgb>

About this call

People	Information	Chat
MC dhimahi (You) Meeting host		
Aakriti Prasad Visitor		
Amitabha Bhattacharyya Visitor		
Amiya Sarkar Visitor		
Dipanwita Sarkar Visitor		
Dr Rumpa Das Presentation · Visitor		
Dr Rumpa Das Visitor		
Dr. Sharbani Chattopadhyay Visitor		
Hare Krishna Kuiry Visitor		
Irfana Khatun Visitor		
M J Visitor		
Monami Basu Visitor		
Richa Visitor		
Roshan Raj Singh Visitor		

LIST OF PUBLICATIONS

Maheshtala College 2019-2024

Number of research papers published per teacher in the Journals notified on UGC CARE list during the last six years – 17

Year	2019	2020	2021	2022	2023	2024
No. of publications	03	01	NIL	03	07	03

List of Journal:

No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Calendar Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (doi) number		
							Link to website of the Journal	Link to article / paper / abstract of the article	Is it listed in UGC Care list
1.	Pixel Value Ordering with Prediction Error Expansion Based High Fidelity Reversible Data Hiding Scheme	Satyajit De	Computer Science	International Journal of Applied Engineering Research (IJAER)	2019	0973-4562	https://www.ripublication.com/ijaer.htm	https://dx.doi.org/10.37622/IJAER/14.4.2019.997-1005	Yes
2.	Reversible Data Hiding Scheme using Prediction Error Expansion in Pixel Value Blocking and Ordering	Satyajit De	Computer Science	International Journal of Applied Engineering Research (IJAER)	2019	0973-4562	https://www.ripublication.com/ijaer.htm	https://dx.doi.org/10.37622/IJAER/14.8.2019.2029-2037	Yes
3.	Adjacent Pixel Values Blocking and Prediction Error Expansion Based High	Satyajit De	Computer Science	International Journal of Applied Engineering Research (IJAER)	2019	0973-4562	https://www.ripublication.com/ijaer.htm	https://dx.doi.org/10.37622/IJAER/14.11	Yes

	Fidelity Reversible Data Hiding Scheme							.2019.2585-2595	
4.	GNSS er taty ebong khetra samikhai er proyog: ekti alochona	Dr. Deepa Bhattacharjee	Geography	Bhugol Swadesh Charcha (Print Only)	2020	2581-4788	https://ugccare.unipune.ac.in/Apps1/User/WebA/SearchList	https://www.maheshtalacollege.ac.in/research-papers	Yes
5.	A generalized line segmentation method for multi-script handwritten text documents	Payel Rakshit	Computer Science	Expert Systems with Applications (Impact Factor: 7.5)	2022	0957-4174	https://www.sciencedirect.com/journal/expert-systems-with-applications	https://doi.org/10.1016/j.eswa.2022.118498	Yes
6.	Comparative study on the performance of the state-of-the-art CNN models for handwritten Bangla character recognition	Payel Rakshit	Computer Science	Multimedia Tools and Applications (Impact Factor: 3.0)	2022	1380-7501	https://link.springer.com/journal/11042	https://doi.org/10.1007/s11042-022-13909-6	Yes
7.	An Ecoepidemic seasonally forced model for the combined effects of fear, additional foods and selective predation	Sasanka Shekhar Maity	Mathematics	Journal of Biological Systems	2022	0218-3390	https://www.worldscientific.com/worldscinet/jbs	https://www.worldscientific.com/doi/10.1142/S0218339023500316	Yes
8.	Optimization of time-dependent fuzzy multi-objective reliability redundancy allocation problem for n-stage series-parallel system	Satyajit De	Computer Science	Innovations in Systems and Software Engineering	2023	1614-5046	https://link.springer.com/journal/11334	https://doi.org/10.1007/s11334-023-00539-w	Yes
9.	Optimization of time based fuzzy multi-objective reliability redundancy allocation problem for xj-out-of-m system using tuning and neighborhood based fuzzy MOPSO algorithm	Satyajit De	Computer Science	Applied Soft Computing (Impact Factor: 7.2)	2023	1568-4946	https://www.sciencedirect.com/journal/applied-soft-computing	https://doi.org/10.1016/j.asoc.2023.110998	Yes
10.	Document Image Skew Detection and Correction: A Survey	Barun Biswas	Computer Science	International Journal of Innovative Research in Technology	2023	2349-6002	https://ijirt.org/	https://ijirt.org/master/publishedpaper/IJIRT158871_PAPER.pdf	Yes

11.	An Overview of Existing Literature on Document Skew Detection	Barun Biswas	Computer Science	Malaysian Journal of Computer Science	2023	0127-9084	https://ejournal.um.edu.my/index.php/MJCS	https://doi.org/10.22452/mjcs.vol136no4.5	Yes
12.	Landform and Land Use Characteristics in Leh Valley with special reference to Leh City and Adjacent Stakmo Fan Area	Dr. Deepa Bhattacharjee	Geography	Geographical Review of India	2023	0375-6386	https://geographicalreviewofindia.org.in/geographical-review-of-india/	https://www.maheshtalacollege.ac.in/research-papers	Yes
13.	Optimization of time based fuzzy multi-objective reliability redundancy allocation problem for xj-out-of-m system using tuning and neighborhood based fuzzy MOPSO algorithm	Payel Rakshit	Computer Science	Applied Soft Computing (Impact Factor: 7.2)	2023	1568-4946	https://www.sciencedirect.com/journal/applied-soft-computing	https://doi.org/10.1016/j.asoc.2023.110998	Yes
14.	Role of Space in an Eco-Epidemic Predator-Prey System With The Effect of Fear and Selective Predation	Sasanka Shekhar Maity	Mathematics	Journal of Biological Systems	2023	0218-3390	https://www.worldscientific.com/worldscinet/jbs	https://www.worldscientific.com/doi/10.1142/S0218339023500316	Yes
15.	Historical digit recognition using CNN: a study with English handwritten digits	Payel Rakshit	Computer Science	Sadhana (Impact Factor: 1.4)	2024	0973-7677	https://link.springer.com/journal/12046	https://doi.org/10.1007/s12046-023-02322-wSadh	Yes
16.	Changes in Land Use and Land Degradation in a Tourism-Centric City, Uttarakhand: A Field-Based Discussion	Dr. Deepa Bhattacharjee	Geography	Bhugol Swadesh Charcha	2024	2581-4788	https://abcdindex.com/Journal/Bhugol-Swadesh-Charcha-(print-only)-2581-4788	NA	Yes
17.	Optimization of time-dependent MORRAP for series-parallel system using improved NSGA-II in interval environment	Satyajit De	Computer Science	Innovations in Systems and Software Engineering (Impact Factor: 1.1)	2024	1614-5054	https://link.springer.com/journal/11334	https://doi.org/10.1007/s11334-024-00588-9	Yes

Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years= 48

Year	2019	2020	2021	2022	2023
No of publications	21	01	15	02	09

List of Book Chapters/ conference proceedings:

Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Calendar Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
1	Malini Sen	Communalism in the Context of Indian Politics: Past and Present	Bharatiyo Chalachitre Deshvaager Provab	NA	NA	National	2019	978-81-938439-5-6	Maheshtala College	Kalyani Foundation & Maheshtala College
2	Dr. Sanghamitra Ganguli	Visvambhara Basudhani	The Treatment of Nature in Kalidasa's Abhigyan Shakuntalam and Shakespeare's the Tempest: A Comparative Analysis	NA	NA	National	2019	978-81-9384-39-4-9	Maheshtala College	Maheshtala College & Kalyani Foundation
3	Dr. Sanghamitra Ganguli	Networking of Undergraduate Colleges: Academic & Administrative Functions	Importance of Social Network in Teaching	NA	NA	National	2019	978-81-938439-6-3	Maheshtala College	Kalyani Foundation & Maheshtala College
4	Dr. Sanghamitra Ganguli	Communalism in the Context of Indian Politics: Past and Present	The Effects of Partition on the writings of Manto: A Brief Overview	NA	NA	National	2019	978-81-938439-5-6	Maheshtala College	Kalyani Foundation & Maheshtala College
5	Sanjibita	Visvambhara Basudhani	Environment in	NA	NA	National	2019	978-81-9384-39-	Maheshtala	Maheshtala

	Mondal		Vedic Literatures					4-9	la College	College & Kalyani Foundation
6	Ajijur Rahaman Mallick	Networking of Undergraduate Colleges: Academic & Administrative Functions	Computers: Networking Use and Misuse	NA	NA	National	2019	978-81-938439-6-3	Maheshtala College	Kalyani Foundation & Maheshtala College
7	Amiya Sarkar	Ithihas Anusandhan	Oiponibik Jaan ghora-aain er otit o bortoman	NA	NA	NA	2019	978-81-935519-0-5	Maheshtala College	Paschimbanga Itihas Sangsad
8	Dr. Sharbani Chattopadhyay	Asrutaveksa	Virarasa: One of the Important Rasas	NA	NA	NA	2019	978-93-88207-42-3	Maheshtala College	Paiolck
9	Dr. Sharbani Chattopadhyay	Visvambhara Basudhani	Environmental Consciousness in Mahabharata: Some Glimses	NA	NA	National	2019	978-81-9384-39-4-9	Maheshtala College	Maheshtala College & Kalyani Foundation
10	Dipanwita Sarkar	Networking of Undergraduate Colleges: Academic & Administrative Functions	Networking in Under Graduate Colleges- Role of an Academic Library with Special References to Infflibnet	NA	NA	National	2019	978-81-938439-6-3	Maheshtala College	Kalyani Foundation & Maheshtala College
11	Dipanwita Sarkar	Recent Trends on Library, Information and Society	Impact of Intellectual Property Right (IPR) in the Modern Age of Digital Era with Special References to Photographic Material	NA	NA	NA	2019	978-93-88207-68-3	Maheshtala College	Paiolck
12	Dipanwita Sarkar	Trends of LIS Education and Profession: Retrospect and Prospects	Changing Job Orientation in Library and Information Science Profession with Special Reference to Academic Libraries	NA	NA	NA	2019	93-5408-963-3	Maheshtala College	Department of Library, Maharani Kasiswari College, Kolkata
13	Ranjit Das	Rastrotter Sahajpath Prosongo O Probaho	Sarvovoumikata Proyog O Prekhapot	NA	NA	NA	2019	978-81-940961-9-1	Maheshtala	Avenel Press

									College	
14	Prasanta Dey	Visvambhara Basudhani	Vedic Debata Apo	NA	NA	National	2019	978-81-9384-39-4-9	Maheshtala College	Maheshtala College & Kalyani Foundation
15	Dr. Deepa Bhattacharjee	Networking of Undergraduate Colleges: Academic & Administrative Functions	Academic, Research and Social Networks Management in Higher Education	NA	NA	National	2019	978-81-938439-6-3	Maheshtala College	Kalyani Foundation & Maheshtala College
16	Payel Rakshit	Document Processing Using Machine Learning	Artificial intelligence for Document Image Analysis	NA	NA	NA	2019	978-0367218478	Maheshtala College	A Chapman & Hall Book
17	Payel Rakshit	Document Processing Using Machine Learning	An Approach towards Character Recognition of Bangla Handwritten Isolated Characters	NA	NA	NA	2019	978-0367218478	Maheshtala College	A Chapman & Hall Book
18	Deepshikha Mutsuddi	Networking of Undergraduate Colleges: Academic & Administrative Functions	Networking and Sustainable Development in Undergraduate Colleges	NA	NA	National	2019	978-81-938439-6-3	Maheshtala College	Kalyani Foundation & Maheshtala College
19	Lipi Halder	Bangla Bhasai Biggan Charcha	Biggan O Sahitik: Binimoy-Rabindranath o Jagadischandra Basu	NA	NA	NA	2019	978-93-83161-03-4	Maheshtala College	Basu Mundran
20	Ankan Roy	Communalism in the Context of Indian Politics: Past and Present	Bharat-Bangladesher Chhitmahal o Dharmaniropekhota(1947-2017)	NA	NA	National	2019	978-81-938439-5-6	Maheshtala College	Kalyani Foundation & Maheshtala College
21	Kishore Roy Sarkar	Communalism in the Context of Indian Politics: Past and Present	Sampradayik Rajniti o Deshvaag: Prasanga Jalpaiguri Jela	NA	NA	National	2019	978-81-938439-5-6	Maheshtala College	Kalyani Foundation & Maheshtala College
22	Dr. Monami Basu	Bangla Chotogolpa : Kaler Britte	Toba Tek Sing	NA	NA	NA	2020	978-81-8064-302-6	Maheshtala College	Progressive Publishers

23	Dr. Rumpa Das	INTELLECT_US	Rokeya Sakhawat Hossain's Sultana's Dream: Scripting the Margins of an Ecofeminist Utopia	NA	NA	NA	2021	978-81-950332-0-1	Maheshtala College	Principal, Maheshtala College & Anjan Saha for Avenel Press
24	Dr. Indrani Ghosal	INTELLECT_US	Rabindra Bhavna o Shristite Prokriti	NA	NA	NA	2021	978-81-950332-0-1	Maheshtala College	Principal, Maheshtala College & Anjan Saha for Avenel Press
25	Malini Sen	INTELLECT_US	Environmental Ethics	NA	NA	NA	2021	978-81-950332-0-1	Maheshtala College	Principal, Maheshtala College & Anjan Saha for Avenel Press
26	Dr. Sanghamitra Ganguli	INTELLECT_US	Nature and its Representation in Impressionist to Post-Impressionist Art	NA	NA	NA	2021	978-81-950332-0-1	Maheshtala College	Principal, Maheshtala College & Anjan Saha for Avenel Press
27	Dr. Kabita Mondal	INTELLECT_US	Towards a Greener Atmosphere - Through Green Chemistry	NA	NA	NA	2021	978-81-950332-0-1	Maheshtala College	Principal, Maheshtala College & Anjan Saha for Avenel Press
28	Dr. Sharbani Chattopadhyay	INTELLECT_US	Kadambarite Prakrati Bhavna	NA	NA	NA	2021	978-81-950332-0-1	Maheshtala College	Principal, Maheshtala College & Anjan Saha for Avenel Press
29	Dr. Sharbani Chattopadhyay	Knowledge Management in Higher Education Institutions, Vol-2	E-Learning: A Necessary Medium of Modern Education System in India	NA	NA	NA	2021	978-81952757-5-5	Maheshtala College	Manipal University Jaipur

30	Dipanwita Sarkar	INTELLECT_US	Environmental Sustainability and Libraries: Concept Of Green Library	NA	NA	NA	2021	978-81-950332-0-1	Maheshtala College	Principal, Maheshtala College & Anjan Saha for Avenel Press
31	Dipanwita Sarkar	Reorienting Information Literacy in the Library and Information Centers	Recent Advancements in Information Accessing by School Students Through Digital Medium : A Case Study	NA	NA	NA	2021	978-93-91572-22-8	Maheshtala College	Rahim Nandan
32	Ranajit Das	Rastronitir bivinno Prosongo	Shishu o Nari Pacharer birudhhe ebong nirapotta prosonge rastroniti	NA	NA	NA	2021	978-93-86529-42-8	Maheshtala College	Cognition Publications
33	Dr. Deepa Bhattacharjee	INTELLECT_US	Interrelationship Among Climate, Soiland, Vegetation: A Case Study of Gangotri, Uttarakhand	NA	NA	NA	2021	978-81-950332-0-1	Maheshtala College	Principal, Maheshtala College & Anjan Saha for Avenel Press
34	Sonatan Soren	Banglar Aprakasito Itihas: Sahitya,Somaj,Sangskriti,Arthaniti	Adibasi Santal Samaj o Tader Prathagata Chikitsar Upadan Samuher Sangkat: Purulia Jelar ekti Anusandhan	NA	NA	NA	2021	978-93-90621-34-7	Maheshtala College	Anima Biswas, Gangchil
35	Dr. Monami Basu	Galpacharcha	Narimed: Shailajananda Mukhopadhyay	NA	NA	NA	2021	978-93-83590-20-9	Maheshtala College	Bangiya Sahitya Sangsad
36	Dr. Monami Basu	Bahumatrik Dristite: Tungabhadrar Tire	Tungabhadrar Tire: Rajnoitik Hastakhep	NA	NA	NA	2021	978-93-90993-36-9	Maheshtala College	Bangiya Sahitya Sangsad
37	Dr. Monami Basu	Pramath Chowdhurir Prabandha : Pathe Pathantare	Sabujpatrer Mukhopatra	NA	NA	NA	2021	978-93-90993-01-7	Maheshtala College	Bangiya Sahitya Sangsad
38	Dr. Indrani Ghosal	Sundarboner Motsyajibider Jibon, Tader Loksangsangskriti ebong	NA	NA	NA	NA	2022	978-5473-456-4	Maheshtala College	Solil Ghosal, Granthan

		Loksahtya								
39	Dr. Monami Basu	Bangla Chotogolpa : Kaler Britte	Palanka: Narendranath Dutta	NA	NA	NA	2022	978-81-8064-324-8	Maheshtala College	Progressive Publishers
40	Dr. Rumpa Das	Post -Millennial Perceptions and Post- Pandemic Realities: Living Dystopian	Rhododendrons in the City: Surviving Dystopia, Living History	NA	NA	NA	2023	978-1-5275-0233-8	Maheshtala College	Cambridge Scholars Publishing
41	Dr. Rumpa Das	Women and Gender Equality in India	An Analysis of the Dominance of the Gender Role Categories in South Asia: A Case Study of Indian Films and Web Series	NA	NA	NA	2023	978-93-83930	Maheshtala College	Jaiswal, P & D S Rathour, GB Books
42	Satyajit De	Applied Computing for Software and Smart System	Multi-objective Fuzzy Redundancy Allocation for xj-out-of-mj System Using Fuzzy Ranked-based Multi-Objective PSO	NA	Proceedings of ACSS	International	2023	978-981-19-6791-7	Maheshtala College	Springer
43	Satyajit De	International Conference on Secuirity, Surveillance And Artificial Intelligence	Optimization of a Trapezoidal Fuzzy and Time-based Multi-objective Optimization Problem for Yi-Out-Of-Ni Systems	NA	ICSSAI	International	2023	978-1-032-54997-2	Maheshtala College	CRC Press
44	Barun Biswas	Applied Computing for Software and Smart System	A Robust Approach to Document Skew Detection	NA	NA	NA	2023	978-981-19-7690-0	Maheshtala College	Springer
45	Dr. Deepa Bhattacharjee	Recent Trends In Science	Major Topographic Changes & Landscape Features of the Badrinath Valley, Uttarakhand, India	NA	NA	NA	2023	978-93-5911-113-1	Maheshtala College	Walnut Publications
46	Dr. Deepa Bhattachar	Indigenous Knowledge and Disaster Risk Deduction	Mountanous Hazard & Sustainable	NA	NA	NA	2023	978-3-031-26142-8	Maheshtala	Springer

	jee		Livelihood in Leh Valley						College	
47	Mohammed Johaed	Education In Resurgent in India	Challenges in of ICT in Higheir Educational Institutes in West Bengal with a Focus on Mobile Learning	NA	NA	NA	2023	978-1-312-71160-0	Maheshtala College	Lulu Publications
48	Kishore Roy Sarkar	Itihas Onusandhan	Jalpaiguri jelar janabinyas o Avibasita Samaj (1947-1971)	NA	NA	NA	2023	8978-81-956-544-6-8	Maheshtala College	Paschimbanga Itihas Sangssad

Publications in different reputed UGC care list Journals

Expert Systems With Applications 212 (2023) 118498

Contents lists available at ScienceDirect

Expert Systems With Applications

journal homepage: www.elsevier.com/locate/eswa

A generalized line segmentation method for multi-script handwritten text documents

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^b Department of Computer Science, Ramakrishna Mission Vivekananda Centenary College, Rahara, Kolkata 716, WB, India
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^d Department of Computer Science, West Bengal State University, Kolkata 726, WB, India

ARTICLE INFO

Keywords: Unconstrained handwriting; Light projection; Start point detection; Boundary tracking; Text line segmentation; Filling and smoothing

ABSTRACT

Handwritten document image segmentation into text-lines is a crucial stage towards unconstrained handwritten document recognition. In the context of Indian subcontinent various scripts are used for communication where a system for multi-script handwritten text line segmentation is very much essential. This paper presents a multi-script text line segmentation algorithm based on newly developed light projection, start point detection, and boundary tracking methods. The proposed approach is capable of overcoming most of the hindrance faced by state-of-the-art methods. The experiment is performed on our proposed Bangla handwritten document image dataset WBSUBNdB_text and also on a variety of well-known public handwritten datasets namely: CMATERdb, Pictmdic_11, KHATT, HIT-MW, ISI Bengali Writer Identification/Verification dataset, ICDAR 2013 segmentation contest dataset, ICDAR 2013 writer identification contest benchmark dataset, and obtained promising results.

1. Introduction

Text Line Segmentation is not only one of the most crucial pre-processing steps of OCR but also essential for tasks like the alignment of text/image, extraction of specific fields, word spotting (Jamuna & Haribabu, 2015), handwriting analysis (Halder et al., 2018; Mukherjee et al., 2019; Vishal & Agarwal, 2021), etc. Some of the systems follow analytic approach where the unit of recognition is character and for such systems line segmentation is an immensely important stage that needs to be followed. "Line" is a basic entity of text document image and segmentation of line is treated as one of the most significant tasks of handwritten OCR. Thus, it is very clear that line segmentation is an unavoidable step for document image processing. Text line segmentation of machine printed documents is quite a solved problem but the same task is still challenging for handwritten documents. The wide variations of handwritten text make the segmentation task more challenging. The major difficulties include high variation in writing styles, irregular line gap, skew angle between text lines, variable character size, and overlapping or touching lines. In different languages (e.g. Arabic, Greek, French, Bangla, Urdu, etc.), plethora of accents make their presence frequently, this intern incorporates more hurdles for line segmentation. To top it all, the irregular and diverse nature of handwritten documents are dependent on writers which increases the level of difficulty to a great extent. Many researchers have put their contribution to solve this problem of text line segmentation in freestyle environment (Likforman-Salem & Faure, 1994; Rakshit et al., 2018). There are already some conventional approaches like projection profile (Babarczyki & Pisk, 2020), Hough transform (Louloudis et al., 2009; Pu & Shi, 1999); Smearing and grouping of components etc. (Ganote et al., 2007; Shi & Govindaraja, 2004), but these methods become inadequate to handle all types of documents when they are applied individually. Sometimes the combination of some conventional methods show more effectiveness than an individual one which is quite evident in the literature (Rakshit et al., 2018; Sansam et al., 2020; Sarkar et al., 2009; Samantopadhyay et al., 2013). In this work, an attempt has been made towards an efficient yet less complex line segmentation system capable of handling diverse handwritten documents. Distinguishing of foreground and background pixel or text and non text area is a very common step towards text line segmentation to make the task easier. In the proposed system, isolating the text and non-text regions of a document is done using a novel light projection method. It uses the properties of light where text components are considered as objects. Following the same properties, whenever light gets a text pixel as an obstacle in its path,

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Comprehensive Analysis of Deterministic and Stochastic Eco-Epidemic Models Incorporating Fear, Refuge, Supplementary Resources, and Selective Predation Effects

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Abstract

In this investigation, we delve into the dynamics of an ecoepidemic model, considering the intertwined influences of fear, refuge-seeking behavior, and alternative food sources for predators with selective predation. We extend our model to incorporate the impact of fluctuating environmental noise on system dynamics. The deterministic model undergoes thorough scrutiny to ensure the positivity and boundedness of solutions, with equilibria derived and their stability properties meticulously examined. Furthermore, we explore the potential for Hopf bifurcation within the system dynamics. In the stochastic counterpart, we prioritize discussions on the existence of a globally positive solution. Through simulations, we unveil the stabilizing effect of the fear factor on susceptible prey reproduction, juxtaposed against the destabilizing roles of prey refuge behavior and disease prevalence intensity. Notably, when disease prevalence intensity is too low, the infection can be eradicated from the ecosystem. Our deterministic analysis reveals a complex interplay of factors: the system destabilizes initially but then stabilizes as the fear factor suppressing disease prevalence intensifies, or as predators exhibit a stronger preference for infected prey over susceptible ones, or as predators are provided with more alternative food sources. Moreover, for the stochastic system, the oscillations tend to cluster around the coexistence equilibrium of the corresponding deterministic model when white noise intensity is low. However, with increasing white noise intensity, oscillation amplitudes escalate. Critically, very high levels of white noise can lead to the eradication of infection from the ecosystem.

Keywords Eco-epidemic model · Fear effect · Prey refuge · Additional foods · Selectivity · Stochasticity

1 Introduction

Research scientists have extensively utilized mathematical models to explore epidemiological and ecological systems [1–6]. Various predator-prey models have been examined, focus-

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ORIGINAL ARTICLE

Optimization of time-dependent MORRAP for series-parallel system using improved NSGA-II in interval environment

Satyajit De¹

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Abstract

This research proposes a novel time-dependent interval-valued function-based multi-objective reliability redundancy allocation problem (TIVF-MORRAP) focused on multi-stage series-parallel systems. Time is a critical factor in assessing system reliability and cost. The novel contribution of this study is the use of an interval-valued function (IVF) approach to manage uncertainties in component reliability, cost, and repair costs, with time as a key variable. The objective is to boost system reliability and minimize costs over time by efficiently allocating redundant components at each stage. The process ensures a restricted allocation of duplicates across all stages and the entire system. In this problem the reduction in component reliability and cost are modeled by the varying radius length along the inverse logarithmic spiral over time. Likewise, the escalation in component repair costs is depicted by the logarithmic spiral. In this study, NSGA-II-AGDV is introduced, a multi-objective evolutionary algorithm (MOEA) that combines NSGA-II (Non-dominated Sorting Genetic Algorithm-II) with agglomerative and divisive clustering algorithms and the Topsis method to solve the problem. Unlike NSGA-II, which utilizes crowding distance, many researchers have adopted a single clustering technique to improve diversity and limit the solution set size. The proposed algorithm integrates two clustering techniques, enhancing functionality while also reducing execution time. A benchmark problem verifies the proposed method, showing enhanced performance and better convergence to true Pareto optimal solutions compared to NSGA-II and NSGA-II with crowding distance elimination (NSGA-II-CDE) across various time values.

Keywords Reliability redundancy allocation model · Spiral model · Interval-valued function · Non-dominated sorting · Agglomerative clustering · Divisive clustering

1 Introduction

In a multi-stage series-parallel reliability redundancy allocation Model (RRAM), improving reliability involves consistently allocating redundant components across each stage, using similar components when feasible, and optimizing resource use across stages [1]. This study utilizes a n -stage series-parallel framework, following the model proposed by De et al. [2]. Within this setup, each of the n stages is connected in series, with the i th stage containing x_i components in parallel, where $1 \leq x_i \leq E$. For these components, one serves as the primary, while the others ($x_i - 1$) serve as redundant backups, with E denoting the maximum permissible components per stage.

To address the outlined model, TIVF-MORRAP is introduced. The primary aims of this problem are to maximize system reliability while minimizing both system cost and system repair costs. The problem is constrained by a limit on the allowable number of components per stage, as well as the total number of components across the entire system. The main goal of this research aims to optimize the placement of redundant components at every stage, ensuring that the stated objectives are met while adhering to the specified constraints on time. To enhance realism and flexibility in TIVF-MORRAP, uncertainties in component reliability and costs are managed through the utilization of IVF, as suggested by Roy et al. [3]. Time plays a crucial role in assessing the system's reliability and cost. Typically, component reliability and cost tend to decrease, while component repair costs increase by a certain factor relative to their previous

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