

Department of Mathematics

Mahishadal Raj College

Session-2019-20

Organized Seminars

Topic: Two-Day International Seminar on Mathematics and Computing: Present Perspective

Date: 20/02/2020-21/02/2020

Organized by: Departments of Mathematics and Computer Science

Lecture Session 1

Chair: Prof. G.P. Samanta, Department of Mathematics, IEST Shibpur, India.

Speakers:

- Prof. Shyamal Kumar Mondal, Department of Mathematics, Vidyasagar University, India. Topic: Dealing with uncertainty in decision making problems.
- Dr. Biswapati Jana, Assistant Professor, Department of Computer Science, Vidyasagar University, India. Topic: Multimedia Security

Lecture Session 2

Chair: Prof. Shyamal Kumar Mondal,

Department of Mathematics, Vidyasagar University, India.

Speakers:

- Prof. G.P. Samanta, Department of Mathematics, IEST Shibpur, India. Topic: Mathematical Modelling of Ecological System
- Prof. Samarjit Kar, Department of Mathematics, NIT Durgapur, India. Topic: Randomness and Reward: Lessons from a Game

Lecture Session 3

Chair: Dr. Shuvendu Chakraborty

Associate Professor, Department of Mathematics, St. Xavier's University, India.

Speakers:

- Dr. Subhabrata Das, Assistant Professor, Department of Mathematics, Presidency University, India. Topic: Groups as Symmetries
- Dr. Tanumoy Pramanik, Research Associate, Beijing Academy of Quantum Information Sciences, Peking, University, Beijing, China. Topic: Introduction of Quantum Correlation and its application as Quantum Cryptography

Lecture Session 4

Chair: Dr. Subhabrata Das

Assistant Professor, Department of Mathematics, Presidency University, India.

Speakers:

- Dr. Shuvendu Chakraborty, Associate Professor, Department of Mathematics, St. Xavier's University, India. Topic: Emergent Scenario in Anisotropic Universe in Presence of Phantom and Tachyonic Fields
- Dr. Soumitra Samanta, Research Associate, The University of Liverpool, United Kingdom. Topic: Human Activity Recognition from Video Data.

TWO-DAY INTERNATIONAL SEMINAR

on

Mathematics and Computing : Present Perspective

20th -21st February, 2020



DETAIL PROGRAM SCHEDULE



*Organized
by*

Departments of Mathematics and Computer Science

MAHISHADAL RAJ COLLEGE

(Govt. Sponsored)

Estd. : 1946

NAAC accredited 'A' Grade College

DST (FIST) Govt. of India Approved College

Mahishadal, Purba Medinipur

W.B., India-721628



DAY 1 (20.02.2020)

■ Registration : 10.00 A.M. – 10.30 A.M.

■ Inaugural Session : 10.30 A.M. – 11.30 A.M.

- **Welcome address** : **Dr. Asim Kumar Bera,**
Principal, Mahishadal Raj College.
- **Inaugurator's Address** : **Shri Tilak Kumar Chakraborty,**
President of Governing Body, Mahishadal Raj College.
- **Address of Guest of Honour** : **Dr. Tapan Kumar Sinha,**
Retired Associate Professor, Mahishadal Raj College.
- **From Convenors' Desk** : **Dr. Anwasha Mukherjee,**
Assistant Professor and Head, Department of
Computer Science, Mahishadal Raj College.
- **From the Secretaries' Desk** : **Dr. Jayanta Kumar Dey,**
Associate Professor, Department of Mathematics,
Mahishadal Raj College.

■ Lecture Session 1 : 11.30 P.M. – 01.00 P.M.

Chair: Prof. G.P. Samanta,
Department of Mathematics, IEST Shibpur, India.

Speakers:

- **Prof. Shyamal Kumar Mondal,**
Department of Mathematics, Vidyasagar University, India.
Topic: Dealing with uncertainty in decision making problems.
- **Dr. Biswapati Jana,**
Assistant Professor, Department of Computer Science, Vidyasagar University, India.
Topic: Multimedia Security

■ Tea Break : 01.00 P.M. – 01.30 P.M.

Lecture Session 2 : 01.30 P.M. – 03.00 P.M.

Chair: Prof. Shyamal Kumar Mondal,
Department of Mathematics, Vidyasagar University, India.

Speakers:

- **Prof. G.P. Samanta,**
Department of Mathematics, IEST Shibpur, India.
Topic: Mathematical Modelling of Ecological System
- **Prof. Samarjit Kar,**
Department of Mathematics, NIT Durgapur, India.
Topic: Randomness and Reward: Lessons from a Game

■ Tea Break : 03.00 P.M. – 03.15 P.M.

Chair: Dr. Tanumoy Pramanik,

Research Associate, Beijing Academy of Quantum Information Sciences, Peking University, Beijing, China.

Speakers:

• **Dr. Dipankar Sadhukhan**

Associate Professor, Department of Mathematics, Haldia Government College, Haldia, Purba Medinipur-721657, W.B., India, E-mail: dipankar.sadhukhan2@gmail.com.

Topic: Revised area fishery model with gompertzian law of growth and non-selective harvesting in unreserved area

• **Dr. Banshidhar Sahoo**

Assistant Professor, Department of Mathematics, Hiralal Bhakat College, Nalhati, Birbhum, India, Email : banshivu@gmail.com.

Topic: **Prey-predator dynamics in presence of fading memory**

• **Dr Sambhu Charan Barman**

Assistant Professor, Department of Mathematics, Shahid Matangini Hazra Govt. College for Women, Nimtouri, PurbaMedinipur, WB, India, Email: barman.sambhu@gmail.com.

Topic: An optimal algorithm for computing minimum k-hop dominating set of permutation graphs.

• **Indadul Khan**

Assistant Professor, Department of Computer Science, Chandrakon Vidyasagar Mahavidyalaya, Paschim-Medinipu, India-721201, Email: indadulkhan@gmail.com

Topic: An ABC approach with multiple perturbation for GTSP.

• **Tanmoy Jana**

Research Scholar, Department of Mathematics, Sidho-Kanho-Birsha University, Purulia, W.B., India, Email: janatanmay26@gmail.com

Topic: Two Warehouse Production model for a deteriorating item under stock dependent demand rate with shortages using genetic algorithm.

• **Prasanta Dutta**

Department of Computer Science, Debra Thana Sahid Khudiram Smriti Mahavidyalaya Paschim Medinipur, W.B., India, Email:dutta1900@yahoo.com.

Topic: A modified ACO with K-OPT algorithm for restricted CSP.

• **Tuhin Bera**

Research Scholar, Department of Mathematics, Panskura Banamali College, Panskura, WB, India, Email: tuhin78bera@gmail.com.

• **Bablu Samanta**

Department of Mathematics, Egra SSB College, Egra, Midnapore (East), West Bengal, India, Email: dr.sbablu@gmail.com

Topic: Fuzzy Matrix Game model with entropy objective.

• **Manotosh Mandal**

Department of Mathematics, Tamralipta Mahavidyalaya, Tamluk, West Bengal, India, Emails: manotosh09@gmail.com

Topic: Stability analysis and optimal control of an epidemic model with population dispersal.

DAY 2 (21.02.2020)

■ Lecture Session 3 : 10.30 A.M. – 12.30 P.M.

Chair: Dr. Shuvendu Chakraborty

Associate Professor, Department of Mathematics, St. Xavier's University, India.

Speakers:

- **Dr. Subhabrata Das**
Assistant Professor, Department of Mathematics, Presidency University, India.
Topic: Groups as Symmetries
- **Dr. Tanumoy Pramanik**
Research Associate, Beijing Academy of Quantum Information Sciences, Peking University, Beijing, China.
Topic: Introduction of Quantum Correlation and its application as Quantum cryptography

■ Tea Break : 01.00 P.M. – 01.30 P.M.

■ Lecture Session 4 : 01.30 P.M. – 03.30 P.M.

Chair: Dr. Subhabrata Das

Assistant Professor, Department of Mathematics, Presidency University, India.

Speakers:

- **Dr. Shuvendu Chakraborty**
Associate Professor, Department of Mathematics, St. Xavier's University, India.
Topic: Emergent Scenario in Anisotropic Universe in Presence of Phantom and Tachyonic Fields
- **Dr. Soumitra Samanta**
Research Associate, The University of Liverpool, United Kingdom.
Topic: Human Activity Recognition from Video Data.

■ Tea Break: : 03.30 P.M. – 03.45 P.M.

■ Paper Presentation Session 2 : 03.45 P.M. – 05.00 P.M.

Chair: Dr. Soumitra Samanta,

Research Associate, The University of Liverpool, United Kingdom.

Speakers:

- **Sova Pal**
Assistant Professor, Department of Computer Science, Y.S. Palpara Mahavidyalaya, Palpara, Purba-Medinipur, WB, India, Email: sova_pal10@rediffmail.com.
- **Dr. Akul Rana**
Assistant Professor, Department of Mathematics, Narajole Raj College, Narajole, Paschim Medinipur, W.B.,INDIA, Email: arnrc79@gmail.com.
Topic: On the Total Vertex Irregularity Strength of Graphs

- **Apurba Manna**
Research Centre in Natural Sciences Raja N L Khan College (Autonomous) Medinipur, India, Email: apurba.manna2008@gmail.com.
Topic: Solving Ship Routing Problem using Bird's Nest Building Material Selection based Genetic Algorithm with Weight Constraint
- **Sankar Das**
Department of Mathematics, Kharagpur College, Innda, Kharagpur, India.
Email: sankarkgp22@gmail.com.
Topic: Analysis of the effect of medicines over bacterias based on Competition Graphs with Picture Fuzzy Environment.
- **Sukumar Samanta**
Department of Applied Mathematics, S. K. B. University, Purulia, West Bengal, India, Email: sukumarvu@yahoo.com.
Topic: Impact of predator cannibalism on a stage-structured model: Role of alternative resource.
- **Dipankar Rana**
Department of Mathematics, Mahishadal Raj College, Purba Medinipur, West Bengal, India, Email: dipankar.rana99@gmail.com
Topic: Three layer supply chain inventory model for seasonal product with prepayment and delayed payment.
- **Amales Kumar Manna**
Department of Mathematics, The University of Burdwan, Burdwan India, Email: akmanna@scholar.buruniv.ac.in
Topic: Green production inventory model with carbon emission cap and trade policy in interval environment.
- **Suman Mondal**
Department of Mathematics, Research Centre in Natural Sciences, Raja N L Khan women's College, Medinipur India, Email: sumanmondal88@gmail.com
Topic: Identification of Trajectory Anomaly on Video Surveillance System

■ **Valedictory Session** : **5.00 P.M. – 05.30 P.M.**

Chair: Dr.Asim Kumar Bera,
Principal, Mahishadal Raj College.

Vote of Thanks: Dr. Anup Kumar Singha,
Assistant Professor, Department of Mathematics, Mahishadal Raj College.

■ **Distribution of Certificates by the chairman.**

