Department of Computer Science & BCA

Mahishadal Raj College
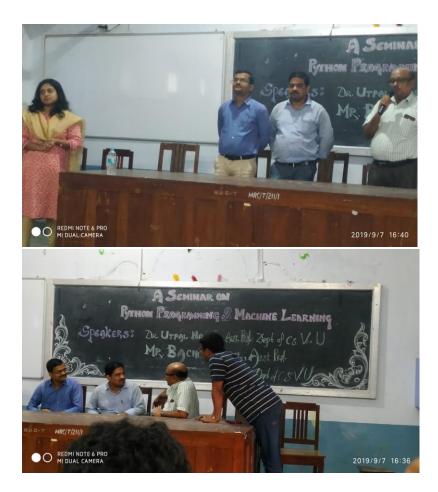
Session-2019-20

<u>Organized Seminars</u>

(1) Topic: Python Programming & Machine Learning

Date: 7th September, 2019

Speakers:

- Mr. Bachhu Paul, Assistant Professor, Vidyasagar University

- Dr. Utpal Nandy, Assistant Professor, Vidyasagar University

(2) 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, IIEST 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, IIEST 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**   : <u>10.00 A.M. – 10.30 A.M.</u>

- **Inaugural Session**   : <u>10.30 A.M. – 11.30 A.M.</u>

  - **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. Anwesha 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**   : <u>11.30 P.M. – 01.00 P.M.</u>

  Chair: Prof. G.P. Samanta,
  Department of Mathematics, IIEST 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**   : <u>01.00 P.M. – 01.30 P.M.</u>

- **Lecture Session 2**   : <u>01.30 P.M. – 03.00 P.M.</u>

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

  Speakers:
  - **Prof. G.P. Samanta,**
    Department of Mathematics, IIEST 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**   : <u>03.00 P.M. – 03.15 P.M.</u>

■ **Paper Presentation Session 1**   **: 03.15 P.M. – 05.00 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, Inda, 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.**