DEPARTMENT OF MATHEMATICS
&
DEPARTMENT OF COMPUTER SCIENCE
PATTAMUNDAI COLLEGE,
PATTAMUNDAI,KENDRAPARA,ODISHA

Invite you to a

State Level Seminar

On

DISCRETE MATHEMATICS & ARTIFICIAL INTELLIGENCE

Date.28.12.2024

Venue:-Auditorium Hall

PATTAMUNDAI COLLEGE, PATTAMUNDAI,

DIST-KENDRAPARA,PIN-754215

ABOUT THE COLLEGE

The genesis of Pattamundai College dates back to the sixties of the last century when its foundation was laid on 1st June, 1967, though it started functioning since 5th July of 1970. This locality, a breadbasket of the district, turned proverbially backward both socially and economically as it became the continual haunt of natural calamities like cyclone, flood and drought, as it is even now, and there was no scope at all for higher education, the obvious catalyst for socio-economic transformation. The only college at Kendrapara, some 20 kms away and logistically disadvantageous for access then, had limited scope to cater to the academic need of the aspiring young college-goers of this vast locality. At this crucial juncture, a team of education lovers and activists starting with some college students of this land in Cuttack city, to the local activists and enthusiasts from the social gentry, came forward for establishment of a college for the benefit of all concerned. Launched as an Arts college with only 128 students, it has grown to its present premier position with two other streams of science and commerce and 1475 students on its rolls with 15 programs at UG level. With an eventful history of 50 years and a picturesque sprawling campus of 14.6 acres, it is indeed a testimony to the dream and sacrifice of our predecessors. Its alumni, globally positioned today are its identity markers and this institution has been playing a pivotal role in development of its satellite localities.Affiliated permanently to Utkal University, this college has been listed under 2(f) and 12 B of the UGC Act vouchsafing its academic standard and administrative acumen. The addition of new buildings, hostels, library, laboratories and playground overthe years has not only given a new dimension to its infrastructure but also has facilitated the expansion of curricular and extra-curricular horizons. Quite ahead of its contemporaries, it has adopted new technology of ICT facilities, library automation, Wi-Fi campus, online classes, green initiatives, etc. by adopting the modern change to meet the expectation of its stakeholders.

VISION

Vision of the College To make higher education qualitative and value based for the socio-economic transformation of the nation. To instill a sense of discipline and morality among the student's community for the making the students socially responsible citizens.

MISSION OF THE COLLEGE

To grow into an institution of excellence and exemplary at the university level To provide literary, scientific, professional and technical education to the aspiring rural youth at a minimum cost. To be recognized as an institution with proven capacity to provide quality education in Science, Commerce & Arts; Humanities. To create symbiotic relationship with the society to meet the changing needs to introduce self-financing courses in multidisciplinary area. To adopt continues measures to improve the quality of the programme. To provide need-based career-oriented courses to the needs of the society to involve the Alumni for all round development of the college.

GENESIS OF THE DEPARTMENT

Pattamundai College, Pattamundai is a leading Degree College in the State imparting education in Arts, Science & Commerce Stream at Degree level . The college has successfully completed 53 years of its existence producing many bright scholars in different field. The Department of Mathematics also has a bright academic record since its inception .The department is constantly maintaining a 95% result in the examination conducted by Utkal University. The department annually conduct student seminar, extramural seminar, State level seminar, National Mathematics Day, Mentor-Mentee Progarmme, Add-on-Courses ,Field visit to eminent institutions etc. The department has conducted UGC sponsored State level seminar "Fuzzy logic & Fuzzy Sets" (2008), "Bio-Mathematics: An Analysis"(2009),National Level Seminar "Discrete Mathematics & Its Applications" (2012),State level seminar "Algebraic System & Its Application" (2019) , State level seminar "Stochastic Process & Complex Dynamics" (2023) earlier. Many of the students of the department have secured important position pursuing career in Mathematics, which is available in the webpage of the institution www.pattamundaicollege.ac.in /Alumni Registration. The student of this department has excelled in different competition at college and inter college level. The faculties of this department are constantly updating their knowledge by joining national seminar ,workshop , refresher course,FDP, short term course organised by primer educational institution of India. The department is well equipped with modern ICT facilities like LCD Projector, Computer Lab, Laptops etc for benefit of the students. Till date Prof Babaji Charan Routroy, Prof Ranjan Kumar Dash has served the department for a long time. Currently Prof Arabinda Pandab is heading the department with other faculty member Dr Nirmala Kumar Sahoo.

This premier educational institution added another degree courses in Computer Science (32 seats) in the year 2023 to the glorious cap which gave a new dimension in the educational sphere for the young graduates of this college.

ABOUT THE PROGRAMMETHEME &OBJECTIVES

Discrete mathematics is the study of mathematical structures that can be counted and analysed, rather than continuous data that is studied using calculus and functions. It's also known as finite mathematics or decision mathematics. Discrete mathematics includes topics such as:counting theory, probability theory, graph theory, combinatorics, set theory, logic, and permutation and combination. Discrete mathematics is different from continuous mathematics, which deals with structures that can range in value over the real numbers. Discrete mathematics is used in many areas, including: programming languages, software development, cryptography, and algorithms.

Artificial intelligence (AI) is a set of technologies that enable computers to perform tasks that are typically done by humans:

- **Understanding language:** AI can understand and translate written and spoken language.
- **Analysing data:** AI can analyse data from various sources to make recommendations and predictions.
- **Learning from experience:** AI can learn from its mistakes and improve its performance over time.
- **Problem solving:** AI can use logic and math to solve complex problems.
- **Interacting with the environment:** AI can interact with the environment and perceive its surroundings.

AI is used in many areas of our lives, including:

- **Voice assistants:** AI powers voice assistants like Siri and Alexa.
- **Customer service chatbots:** AI-powered chatbots can help customers navigate websites.
- **Self-driving cars:** AI is used in self-driving cars.
- **Image recognition:** AI can recognize faces and photos.
- **Business operations:** AI can analyse data from various sources to help businesses operate more efficiently and profitably.

AI is a broad field with many subsets, each focusing on a specific aspect of replicating human intelligence.

CALL FOR PAPER & GUIDE LINES

Research Papers/Papers are invited in the form of original works from the researchers, teachers, research scholars, social workers and students. Two hard copies and one soft copy (CD) of full paper are to be submitted. Medium of research paper can be in English only in MS-word (Times Roman font size 12.5 having 1.5 spacings). Authors are requested to follow strictly the specification given below without which it would be very difficult for the selection of papers for publication. Submission of Abstracts and the research paper should be submitted with the following information and in this order

- ➢ **Title of Abstract**
- ➢ **Name & Designation of Authors(s)**
- ➢ **Institutional affiliation**
- ➢ **E-mail address**
- ➢ **Mob- Number**
- ➢ **Body of Abstract**
- ➢ **Key Words alphabetically.**

The abstract should not exceed three hundred words (300 Words) and a full paper not more than three thousand words (3000 words).

Authors are requested to kindly send the abstracts and full papers through E-mail Id. arabindapandab@gmail.com on or before 22.12.2024.

ACCOMMODATION

For free accommodation of out station participants, Rooms will be provided at Hostels & Guest Houses with prior Intimation to Dr Nirmala Kumar Sahoo, Mob: 8917647154,E-mail Id:nirmalakumarsahoo@gmail.com

CHIEF PATRON

Prof. Dillip Kumar Bhuyan, Principal

ADVISORY COMMITTEE

1. Dr. Ramesh Kumar Sahoo, HOD,Physics

2. Dr. Dushasan Parida, HOD,Chemistry

3. Dr. Anjali Kumari Dash, HOD,Botany

4. Dr. Sunil Kumar Pradhan, IQAC Coordinator

5. Dr. Fakir Chandra Pradhan, Academic Bursar

6. Sri Sarbeswar Sahoo, Administrative Bursar

7. Capt Manoj Parida, HOD ,Sociology

8. Smt Sarojini Mishra, HOD, Zoology

ORGANISINIG COMMITTEE

1. Sri ArabindaPandab (Convenor)

2. Dr. Nirmala Kumar Sahoo (Co-ordinator)

3. Sri Biswajit Sarangi (Co-ordinator)

4. Sri Ranjit Kumar Senapati, Reader in Sociology

5. Sri Srimanta Kumar Jena, HOD,Philosophy

6. Sri Ranjan Kumar Gahan, Lecturer in Chemistry

7. Sri Subhasis Mishra, IQAC, Member

8. Sri Jitendra Malik, IQAC, Member

9. Sri Ranjan Kumar Behura, HOD,History

10. Sri Ranjan Kumar Behera, HOD, Commerce

11. Sri Saroj Kumar Nayak, Lecturer in English

12. Miss Priyanka Priyadarshini Barik, Lecturer in Computer Science

INVITED SPAEKERS

1. **Prof (Dr.) Prayag Prasad Mishra,**
   Professor of Mathematics,
   School of Basic Science & Humanities,
   Silicon University, Bhubaneswar

2. **Dr. Satyananda Champati Rai,**
   Associate Professor,
   School of Computer Engineering,
   KIIT Deemed to be University, Bhubaneswar

Invitation

Sir/Madam,

It gives us immense pleasure to inform you that the Department of Mathematics& Department of Computer Science, Pattamundai College, Pattamundai, Kendrapara, are going to jointly organise a state level seminar on "**Discrete Mathematics & Artificial Intelligence"** on **28th December, 2024** in the Auditorium Hall of the College.

So, we would like to invite you to participate and contribute research papers in this seminar.

Your presence and participation will make the occasion more meaningful and successful

With Warm Regards.

Coordinator	Convener	Chief Patron /Principal
1. Dr. Nirmala Kumar Sahoo Lecturer in Mathematics 2. Sri Biswojit Sarangi, Lecturer in Computer Science	Sri ArabindaPandab HOD, Mathematics	Prof. Dillip Kumar Bhuyan Principal

You May Reach Out

Sri ArabindaPandab,

HOD, Mathematics

E-mail Id-:arabindapandab@gmail.com

Mob: 9937254024