

**Murgaon Education Society's Vasant Joshi College of  
Arts and Commerce, Zuarinagar-Goa  
Department of Mathematics and Statistics  
Annual Report  
2023-24**

**Faculty Achievements:**

**Ms Shruti B. Nayak**

- 1) Participated in National Level Webinar organized by the Internal Quality Assurance Cell in collaboration with Institution Innovation Council (IIC) of Murgaon Education Society's Vasant Joshi College of Arts and Commerce Zuarinagar-Goa on the topic **Intellectual Property Rights'**, on 30th April 2024.

**Ms Prajakta A Desai**

- 1) Participated in the **'One Day State Level Workshop On NEP 2020 Syllabus of Mathematics for The Mathematics Faculty of the First Year Commerce Programme'** on 4<sup>th</sup> July 2023 organized by Department of Mathematics, Government of Goa, College of Commerce and Economics, Borda Margao-Goa.
- 2) Created two modules (in Konkani) in the subject of Commercial Arithmetic-I, two modules (in Konkani) in the subject of Commercial Arithmetic-II and one module (in Konkani) in the subject of Business Statistics-I for the DISHTAVO project of DHE, Goa Government.

**Ms Sindhuja Desai**

- 1) Participated in the International Conference on **'New Horizons in Commerce, Management, Information Technology, Economics and Social Sciences'** on 29<sup>th</sup> February 2024 organized by Anjuman Khairul Islam's Poona College of Arts, Science and Commerce, Pune - Maharashtra in association with Research Development Cell and IQAC of Murgaon Education Society's Vasant Joshi College of Arts and Commerce, Zuarinagar-Goa.
- 2) Participated in a workshop on **"Text Mining & Sentiment Analysis using Orange Software"** organized by the Research, Development & Innovation Cell in collaboration with IQAC of the Murgaon Education Society's Vasant Joshi College of Arts and Commerce, Zuarinagar-Goa, held on 16<sup>th</sup> March 2024.

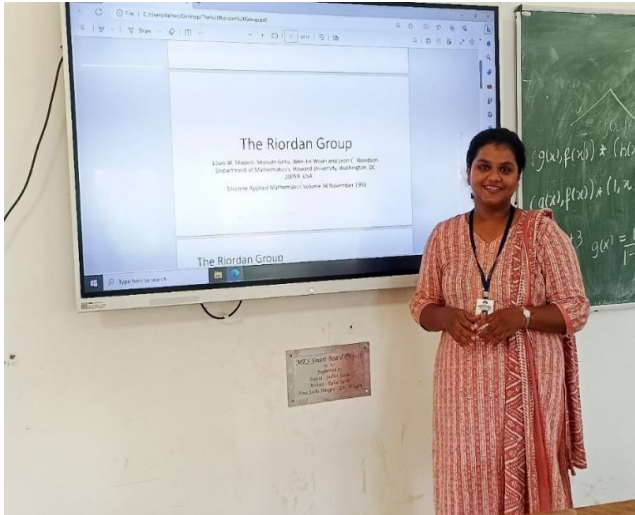
**Department activity:**

**Discussion of Journal:**

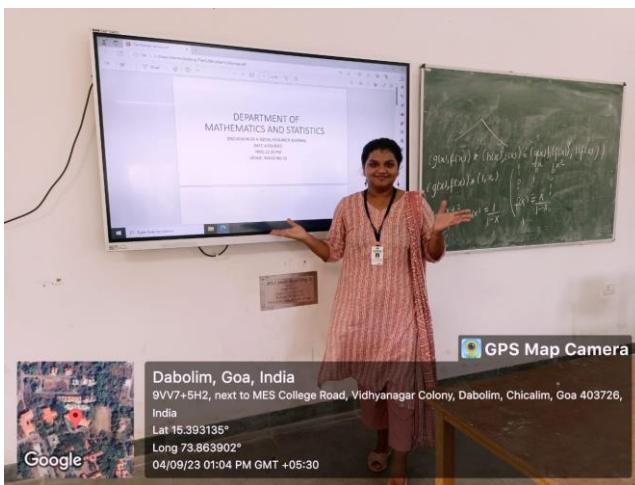
Department conducted the first presentation of 'Discussion of a Social Research Journal' on 4/09/2023. The presentation was done by Assistant Prof Ms. Prajakta Ashok Desai. She spoke on the research paper published in 'Discrete Applied Mathematics Journal Volume 34 November 1991' titled 'The Riordan group by Louis W. Shapiro, Seyoum Getu, Wen-Jin Woan and Leon C. Woodson Department of Mathematics, Howard University, Washington, DC 20059, USA.'

Following Contents of paper were discussed:

1. The group operation of the Riordan Group.
2. Applications of Riordan Group
3. Pascal's Triangle
4. Pascal's Matrix
5. Euler's Problem of the King Walks



Ms. Prajakta Desai discussing the paper



Ms. Prajakta Desai discussing the paper

### Student Enrichment Activity:

#### One day State Level workshop on LaTeX':

Department of Information Technology, Department of Mathematics & Statistics and IQAC of M.E.S. Vasant Joshi College of Arts and Commerce, Zuarinagar – Goa in collaboration with Directorate of Higher Education, Government of Goa organized an **'One day State Level workshop on LaTeX'** on 16<sup>th</sup> February 2024 between 9:30 am to 4:00 pm at Principal M.S. Kamat Seminar Hall of M.E.S. Vasant Joshi College of Arts and Commerce, Zuarinagar – Goa. The target audience of the workshop were B.A./B.Com./B.B.A./B.C.A./B.Sc. students

of all the colleges affiliated to Goa University. The resource person for the workshop was Dr. Mamta Kumari, Assistant Professor, Dept. of Mathematics, Dhempe College of Arts & Science, Panaji -Goa. All together 58 participants attended the workshop which included 11 Males and 47 Females. Following is the breakup of the participants:

**M.E.S Vasant Joshi College of Arts & Commerce**

	No. of Males	No. of Females	Total
Students	9	47	56

**Other Colleges from Goa**

	No. of Males	No. of Females	Total
Students	2	0	2

At the end of the workshop following learning outcomes were met:

1. Students were able to understand the basics of LaTeX
2. Students were able to apply LaTeX in academic writing, document structuring, formatting, Mathematical equations, tables and figures
3. Students were able to get Introduction to Advance techniques and tools in LaTeX required to enhance the quality of articles/projects

Overall this workshop was a great success. Certificates of participation were awarded to the participants at the end of the workshop.



Dr. Mamta Kumari addressing the gathering





Participants of the workshop



Dr. Mamta Kumari addressing the queries of the students

**Ms Sindhuja Desai**  
Assistant Professor in Mathematics and Statistics

**Dr. Manasvi M. Kamat**  
(Professor & Principal)