



**DCT's
Dhempe College of Arts and Science
Miramar, Goa.**

**Department of Mathematics
Department Activity Report for the month of November 2022**

I. DEPARTMENTAL ACTIVITIES

i. Personality Enhancement Programmes

NIL

ii. Green Activities

NIL

iii. Crossover Learning Initiatives

NIL

iv. Activities with Alumni-participation

NIL

II. E-CONTENT CREATION AND INNOVATIVE PEDAGOGICAL PRACTICES

DISHTAVO Recordings

- Dr. Mamta Kumari recorded 4 modules for DISHTAVO in Konkani for the paper MTC103 Differential Equations and Discrete Mathematics (S.Y.B.Sc) on 15/11/2022 at HRDC, Goa University.
- Dr. Mamta Kumari recorded 6 modules for DISHTAVO in Konkani for the paper MTC105 Algebra (T.Y.B.Sc) on 15/11/2022 at HRDC, Goa University.
- Ms. Rashmi Naik recorded 7 modules for DISHTAVO in Konkani for the paper MTS102 Analytical Geometry (S.Y.B.Sc) on 4/11/2022 and 9/11/2022 at HRDC, Goa University.
- Mr. Vitendra Mhatonkar recorded 7 modules for DISHTAVO in Konkani for the paper MTC101 Calculus and Numerical Methods (T.Y.B.Sc) on 16/11/2022 at HRDC, Goa University.

III. NODAL ACHIEVEMENTS

i. Students

Nil

I. Faculty Members

Ms. Maria Suzana Miranda

- Convenor of Exam Committee.

Dr. Mamta Kumari

- NCC (Navy) Caretaker.
- Conducted Mathematics activities for school children on 14/11/2022 under Star DBT scheme.

Ms. Rashmi Naik

- In charge of Mathematics Lab.
- Member of Criteria 2
- Conducted Mathematics activities for school children on 14/11/2022 under Star DBT scheme.

Mr. Vitendra Mhatonkar

- Appointed as examiner for the C.A.P for the paper MTE101 Foundations of Mathematics.
- Conducted Mathematics activities for school children on 14/11/2022 under Star DBT scheme.

IV. RESARCH

i. Faculty Members

NIL

ii. Students

NIL

V. COLLABORATIONS AND LINKAGES (if any)

NIL

SKILL DEVELOPMENT COURSES (all knowledge-based skill enhancement courses)

NIL

VI. EXTENSION AND OUTREACH

VII. NODAL ACTIVITIES OF FACULTY MEMBERS

- Dr.Mamta Kumari attend a workshop on “Analysis, Differential Equations & Computation” from 12/11/2022 to 13/11/2022.
- Dhempe College of Arts & Science celebrated children’s day with school children. The students of Auxilium High School, Caranzelum, Panaji and Union High School visited the college campus. The department of Mathematics organized the following activities for them:

1. Dance- Dance – Transversal (Game):

Students are first taught about the various angles made by parallel lines and transversal. The corresponding angles, alternate interior angles, Alternate exterior angles, linear pairs. Once the students are familiar, they were made to play the dance-dance-transversal game. The music was played and students were made to dance. Once the music stops, a pair of angles name was flashed, they were supposed to stand on those pair of angles. Students had initially some difficulty in identifying the angles but as they played the game, they became more familiar with angles and enjoyed the game.



Dance -Dance – Transversal

2. Reflective Property of an Ellipse: First concept of an Ellipse was defined and some basic properties of an ellipse were discussed. Among those properties Reflective property of an ellipse (i.e, when a ray leaves one of the foci and meets a point on that ellipse, it will reflect off of the ellipse and pass through the other focus) was demonstrated using model.



Demonstration of model



Workshop certificate(Analysis, Differential Equations & Computation)

NCC Naval Unit Activities(care taker ANO Dr Mamta Kumari)

- 10 SD and 04 SW NCC Navy cadets attended ATC Camp from 26/10/2022 to 2/11/2022 at Fr. Agnel College, Pillar.
- Cadet Nirupa Thakur attended Niligiri Adventure Camp at Ooty from 26/10/2022 to 3/11/2022.
- SW cadets and CTO of NCC Naval Unit attended Pre-Yatching Camp(Regatta) Phase I,II and III at Gethna Watersports Centre-Chitra Durga, Karnataka. It was organized by 3 Kar Naval Unit NCC, Mysuru.. Cadet Shreya Ravindra Parab and Cadet Kritika Krishnakant Desai attend Phase I from 14/10/2022 to 21/10/2022 and PO Cadet Karina Fernandes attended Phase I & phase II from 14/10/2022 to 29/10/2022. CTO Mamta Kumari attended the camp from 30/10/2022 to 6/11/2022.



Pre-Yatching Camp(Regatta)

- Dr, Mamta Kumari, CTO of Naval NCC unit of Dhempe College attended Special NCC Yatching Training Camp 2022 held at INWTC, Vasco (Goa) from 21/11/2022 to 30/11/2022(10 days). A total of 20 cadets (11 SW and 9 SD) attended the camp from 3 Directorate-Gujarat, Maharashtra and Kar & Goa Directorate. During these 10 days camp, cadets learnt Sailing, Wind surfing and Kayaking. The theory and practical sessions were conducted by the instructors of INWTC. Commander Riji K Krishnan was Camp Commandant of the special yatching camp.



Special NCC Yachting Training Camp 2022

VIII. ALUMNI ACHIEVEMENTS (if any)

NIL

IX. GENDER SENSITIZATION/EQUITY PROGRAMMES (if any)

NIL

X. BEST PRACTICES (not featuring under any Header above)

NIL

XI. FUTURE PLANS OF THE DEPARTMENT (for the next academic year)

- To organise quizzes and workshops for school students.