

Activities under College Star DBT Scheme (Mathematics)

- As a part of the Annual Science Day Exhibition of the College, the Department of Mathematics set up the following exhibits in the college on 30/01/2024 from 10:00 am - 4:30 pm. Students from various higher secondary schools visited the exhibition. There was a good response by all the visitors/students. The amount spent towards refreshments was Rs 13,305/-

Total no of visitors: 55

| Sr | Exhibits | Students | Class |
|----|--|--|-------|
| 1 | Pegboard puzzle, Brachistochrone curve | Esha Turi Saloni Vaingankar Brian Barreto | TYBSc |
| 2 | The tower of Brahma, 1 to 8 number Game | Nisha Pai Keziah Martins Tejas Naik Geetika Gaude | TYBSc |
| 3 | Two congruent right triangles | Pavitra Kankonkar Jeeya Gaude | TYBSc |
| 4 | Chaos theory/Soma cube/Parking puzzle | Sunil Nisad Aadit Satardekar | TYBSc |
| 5 | Number Shift | Anushka De Braganca Prunella Pinto | TYBSc |
| 6 | Pythagoras Theorem Tangrams Geometric solids | Milisha Almeida Diya Deshpande Reshma Kerketta | TYBSc |
| 7 | Moire Patterns | Aastha Naik Abigail Sequiueira Chethna Chandar | FYBSc |
| 8 | Kaleidoscope | Mitali Shirodkar Rani Bedadolakar Saiesha Gawas | FYBSc |



Glimpses of the Science exhibition

- The Department of Mathematics organized a Research Paper Presentation Competition in Mathematics for the undergraduate students of Goa on 10/2/2024 under College Star DBT Scheme. The objective of the competition was to promote research in Mathematics among the college students. 09 teams participated in the competition.

Dnyanprassarak Mandal's College And Research Centre, Assagao won the first place, DCTs Dhempe College of Arts and Science on the Second place and Government College of arts, science and commerce, sanquelim were placed third.

The keynote speakers and judges for the event were Dr Tarkeshar Singh, Professor, Department of Mathematics, BITS Pilani Goa and Dr Mailattu Kunhanandan, Assistant Professor, Department of Mathematics, Goa University. Dr Tarkekshar Singh delivered a talk on ‘Some Combinatorial Proof Techniques’ and Dr M Kunhanandan delivered a talk on ‘Recounting the Rationals’.



Prize winners



Vice Principal Dr Swati Pawar welcoming the guests

- The Department of Mathematics organized a One day workshop on SPSS and PSPP for the students and faculties of the college on 17/2/2024 under Star DBT College

Scheme in the language laboratory. The objective of the workshop was to give an overview of SPSS software to the students. The resource person for the workshop was Mr Mrunal Parsekar, Assistant Professor, Department of Mathematics, Carmel College of Arts, Science and Commerce, Nuvem Goa. Dr. Mamta Kumari was convener and Ms. Rashmi Naik was coordinator for the event. 23 students and 03 faculty members were benefitted from the workshop.



Principal Prof. Vrinda Borker welcoming the resource person,



Group Photograph with the participants



Resource person, Mr Mrunal Parsekar during the session

- The Department of Mathematics organized a workshop on ‘Computational Thinking’ for the school students on 23/2/2024 under Star DBT College Scheme. The objective of the workshop was to sow the seeds of the aspects of Computational Thinking in the

young minds of the students. Two schools, Mustifund High School, Cujira and Dr. K. B. Hedgewar High School, Cujira participated in the workshop. Dr. Mamta Kumari took a session on “Sudoku” for the students. 53 students were benefitted from the workshop. The workshop was coordinated by Ms Rashmi Naik and Dr. Mamta Kumari was convener.

The following Mathematical models were demonstrated to the students.

| Sr | Model | Students | Class | Venue |
|----|---------------------------------|---------------------|-------|--------------|
| 1 | 1 to 8 number game | Aastha Naik | FYBSc | AV Room |
| 2 | Pegboard puzzle | Mitali shirodkar | FYBSc | AV Room |
| 3 | Pythagoras theorem | Saiesha Gawas | FYBSc | Reading room |
| | | Reshma Kerketta | SYBSc | |
| 4 | Tower of Brahma | Keziah Martins | TYBSc | Reading room |
| 5 | a^2-b^2 formula | Nisha Pai | TYBSc | Reading room |
| 6 | Brachistochrone | Brian Barreto | TYBSc | Reading room |
| 7 | Parking Puzzle | Milisha | SYBSc | AV Room |
| | | Diya Deshpande | SYBSc | |
| 8 | Platonic and archimedian solids | Anushka De Braganca | TYBSc | Reading room |
| | | Prunella Pinto | TYBSc | |
| 9 | Tangrams | Rani Bedadolakar | FYBSc | AV Room |
| 10 | $(a+b)^3$ formula | Vishant Borker | FYBSc | AV Room |
| 11 | Fractions | Jeeya Gaude | TYBSc | Reading room |
| | | Pavitra Kankonkar | TYBSc | |
| 12 | Fraction Bingo | Esha Turi | TYBSc | Reading room |
| | | Tejas Naik | TYBSc | |
| 13 | Data handling | Geetika Gaude | TYBSc | AV Room |
| | | Saloni Vaigankar | TYBSc | |
| 14 | Hands on Geogebra | Sunilkumar Nisad | TYBSc | AV Room |
| | | Aadit Satardekar | TYBSc | |



Demostration of the Mathematical models



Group photograph with the participants

