

### 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

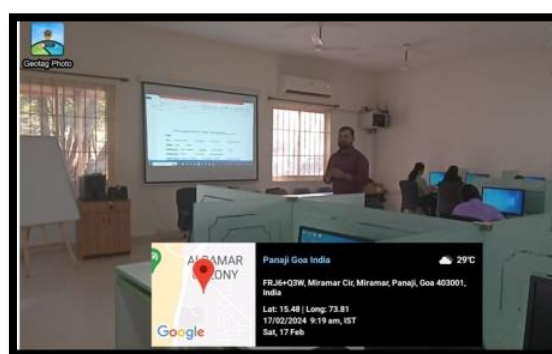
Scheme in the language laboratory. The objective of the workshop was to give an overview of SPSS software to the students. The resource person for the workshop was Mr Mrunal Parsekar, Assistant Professor, Department of Mathematics, Carmel College of Arts, Science and Commerce, Nuvem Goa. Dr. Mamta Kumari 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**

