



Mercy College
Palakkad, Kerala, India 678006
Govt. Aided Arts & Science College
Affiliated to the University of Calicut
Accredited by NAAC with A Grade IV Cycle

Domain Club Activity – Shape-Shifting Zookeeper

The PG Department of Mathematics & Statistics organized a five-day workshop titled "**Shape-Shifting Zookeeper**" for second and third-year undergraduate students who had not yet been introduced to Group Theory. The workshop aimed to provide an engaging introduction to the fundamental concepts of Group Theory through a series of interactive explorations and activities.

The sessions were conducted by **Dr. Jayasree S**, Educational Outreach Officer, IIT Palakkad. During the sessions, the students were divided into groups and provided with a series of problems involving animals and their transformations. Rather than being introduced to the formal definition of a group at the outset, students explored these problems, identified patterns and relationships, and gradually constructed a group structure from their observations. This activity-based approach enabled students to discover the underlying mathematical ideas themselves.

The programme consisted of two-hour forenoon sessions held on **18, 29, and 30 June**, and **1 July**, followed by an afternoon session on **2 July**. A total of **23 students** participated in the workshop. The workshop was coordinated by **Ms. Madhunisha M**, Assistant Professor (on contract), **Dr. Nithya A. A.**, Head of the Department of Mathematics & Statistics, and **Ms. Sreelakshmi. K. R.**, Student Coordinator, D3 Mathematics.

The workshop not only familiarized the students with the basic concepts of Group Theory, but also helped them understand an important aspect of higher mathematics: the process of generalizing a simple, concrete situation into an abstract mathematical structure. By moving from familiar objects and specific examples to general mathematical principles, students gained an appreciation of how abstract concepts are developed from simple observations and patterns



Signature of Coordinator

Signature of H.O.D

Signature of Principal