



Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)



Department of Mathematics

Group Discussion under Participative Learning: Special Functions and Improper Integrals:2025-26

Department of Mathematics organized group discussion activity on the topic "Special functions and Improper Integrals" on 24th September, 2025 for the B.Sc. II year students.

The main objective of this discussion was to improve students' conceptual understanding of advanced calculus topics and to encourage active participation in mathematical learning.

The discussion began with a short introduction to **special functions**, which are important mathematical functions that arise in the solution of many problems in physics, engineering, and applied mathematics. Students discussed functions such as the **Gamma function**, **Beta function**, and **Bessel functions**, and their significance in solving differential equations and complex integrals. The second part of the discussion focused on **improper integrals**, which involve integrals with infinite limits or integrands that become infinite within the interval.

During the discussion, students actively exchanged ideas, solved sample problems, and clarified doubts with the help of the instructor. Overall, the group discussion was informative and interactive. It helped students strengthen their knowledge of **special functions and improper integrals** and encouraged them to approach mathematical problems with greater confidence and clarity. The session concluded with a summary of key concepts and feedback from the students.

Outcome: -The group discussion proved to be a useful academic activity that enhanced students' understanding of advanced mathematical concepts and promoted teamwork and effective communication.

Beneficiaries-10



Students actively participating in Group Discussion

Dr. Patangrao Kadam
Head, Head,
Department of Mathematics
Dr. Patangrao Kadam Mahavidyalaya
Ramanandnagar, (Burli).



Principal,
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burli)
Tal. Palus, Dist. Sangli.