

## **Post Graduate and Research Department of Mathematics**

### **IIT -JAM Coaching (2023-24)**

Post Graduate and Research Department of Mathematics, Christ College Irinjalakuda, in collaboration with Mathlab Cochin, organized a comprehensive coaching program for the IIT Joint Admission Test for MSc (IIT JAM), with a focus on preparing undergraduate students aspiring to pursue postgraduate studies in Mathematics. The coaching sessions were designed to enhance students' theoretical knowledge, and problem-solving abilities, which are essential for success in this competitive exam.

Coordinator: Dr. Tintumol Sunny

Joint Coordinator: Ms. Mary Pauly K

### **Objective**

The primary objective of this coaching initiative was to:

1. Equip students to excel in the IIT-JAM and other entrance exams for M.Sc. Mathematics programs at reputed institutions by familiarizing them with the exam structures and syllabi.
2. Provide guidance on syllabus topics and frequently tested concepts.
3. Equip students with effective problem-solving strategies.

### **Structure of the Coaching Program**

The coaching was started on November 2023 for the 2022-25 Batch students (second year B.Sc Mathematics students). The topics covered included:

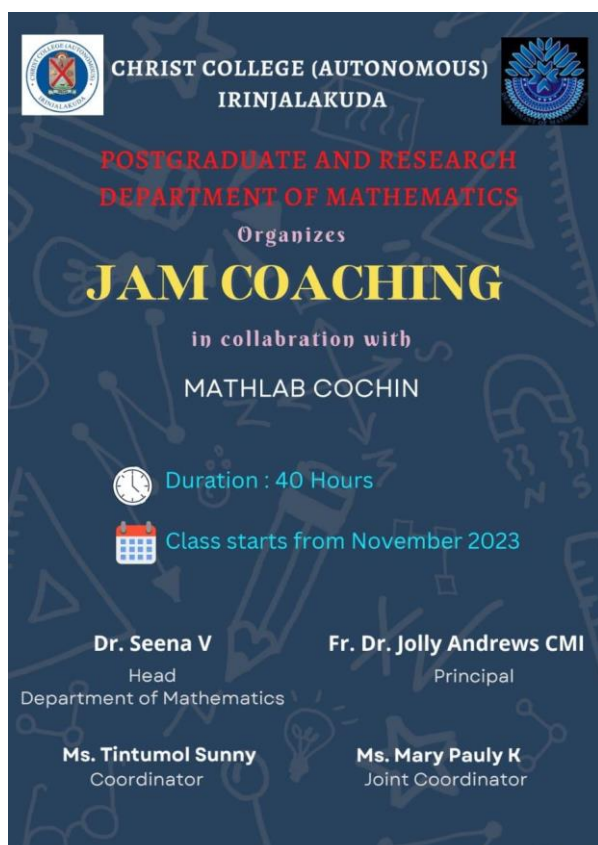
- Linear Algebra
- Sequence and series of Real numbers
- Integral Calculus
- Differential Equations
- Functions of one variable.



## Faculty Involvement

The sessions were led by faculty members with expertise in each topic, who ensured that complex concepts were taught in an accessible manner.



- **Interactive Lectures:** Emphasis was laid on interactive teaching, with faculty encouraging students to ask questions and engage in discussions.
- **Practice Tests:** Mock tests based on IIT JAM's format helped students assess their knowledge and time-management skills.
- **Doubt-Clearing Sessions:** Additional sessions were organized to address individual queries and provide personalized feedback.
- **Resource Materials:** Comprehensive study materials, including notes, previous years' question papers, and practice sets, were provided.

## Brochure



 **CHRIST COLLEGE (AUTONOMOUS)**  
IRINJALAKUDA 

**POSTGRADUATE AND RESEARCH  
DEPARTMENT OF MATHEMATICS**  
Organizes  
**JAM COACHING**  
in collaboration with  
MATHLAB COCHIN

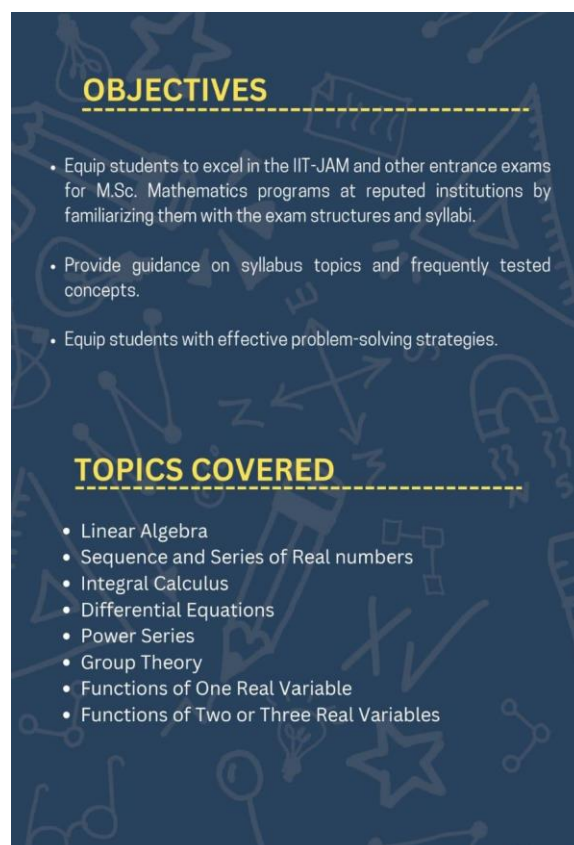
 Duration : 40 Hours  
 Class starts from November 2023

**Dr. Seena V**  
Head  
Department of Mathematics

**Fr. Dr. Jolly Andrews CMI**  
Principal

**Ms. Tintumol Sunny**  
Coordinator

**Ms. Mary Pauly K**  
Joint Coordinator



### OBJECTIVES

- Equip students to excel in the IIT-JAM and other entrance exams for M.Sc. Mathematics programs at reputed institutions by familiarizing them with the exam structures and syllabi.
- Provide guidance on syllabus topics and frequently tested concepts.
- Equip students with effective problem-solving strategies.

### TOPICS COVERED

- Linear Algebra
- Sequence and Series of Real numbers
- Integral Calculus
- Differential Equations
- Power Series
- Group Theory
- Functions of One Real Variable
- Functions of Two or Three Real Variables

