



# Lady Doak College, Madurai

(An Autonomous Institution Affiliated to Madurai Kamaraj University, Madurai)

Re-accredited with Grade 'A+' by NAAC (4<sup>th</sup> Cycle)



## Science Instrumentation Centre & Research and Development Cell

# TRAINING OF TRAINERS: ADVANCED LABORATORY INSTRUMENTATION

*(Empowering Lab assistants to Train,  
Lead, and Excel!)*



DST - FIST Sponsored (Level 0)

## About the college

Lady Doak College, the first Women's College in Madurai, was the brainchild of Ms. Katie Wilcox, an American missionary with a vision and fervour for the empowerment of women. The College made its humble genesis in 1948, and within a short span of time, in 1978, it was commissioned to function as an autonomous college, being affiliated to the Madurai Kamaraj University. The purpose of the Christian College is to impart quality education of Christian character to students of all creeds.

## About the Research and Development Cell

The College has established a Research and Development Cell to serve as a hub that supports and enables a system for students, scholars and faculty members to successfully pursue research as a part of their career. It comprises a motivated team of faculty members from all departments to facilitate the activities of the cell effectively in a holistic manner. It is committed to foster research culture across Sciences and Humanities by introducing research based learning at all levels of higher education.

## About the Science Instrumentation Centre

Science Instrumentation Centre was established in 2005 with College with Potential for Excellence-UGC grant. It is an advanced laboratory infrastructure common to all science departments of the College. It houses sophisticated equipments like Lyophilizer, Atomic Force Microscope, UV spectrofluorometer, HPLC, GC, HPTLC, Atomic Absorption Spectrophotometer, Laboratory Raman Analyser, UV Spectrophotometer and others. Its main objective is to provide services to all faculty, researchers and students of Lady Doak College and other institutions to carry out analysis of samples on concessional rates. The centre provides analytical services with the available sophisticated analytical instruments, development of manpower in instrumentation, and teaching and research programmes in instrumentation and analysis.



September  
20, 2025



09.30 a.m. –  
03.00 p.m.



AV2 &  
Science Instrumentation Centre

# About the Programme

Our first-ever initiative to empower trainers and foster leadership begins with this training. This program focuses on building internal training capacity by enabling experienced lab assistants to train their peers in operating and maintaining advanced instruments.

## Programme Objectives

- To provide hands-on training on analytical instruments like UV-Vis, FTIR, AFM, HPLC, HPTLC, AAS, and Spectrofluorometer.
- To empower lab assistants to train others effectively in handling these instruments.
- To promote safety, precision, and efficiency in laboratory operations.

## Programme Highlights

- Expert-led sessions on each instrument
- Practical demonstrations & hands-on practice
- Troubleshooting and calibration techniques
- Certificate of Completion

## Instruments Covered

- UV-Vis Spectrophotometer
- Fourier Transform Infrared Spectrometer (FTIR)
- Atomic Force Microscope (AFM)
- High Performance Liquid Chromatography (HPLC)
- High Performance Thin Layer Chromatography (HPTLC)
- Atomic Absorption Spectrophotometer (AAS)
- Spectrofluorometer

## Trainers

### Mr. T. Innocent

Lab Assistant, Department of Chemistry

### Dr. K. Bhavani

Lab Instructor, Department of Biotechnology

### Mr. S. David Masilamani

Lab Assistant, Department of Biotechnology

### Mrs. G. Jeyanthi

Lab Assistant, Department of Botany

### Mr. N. Onasis Solomon

Lab Assistant, Department of Chemistry

## PATRON

### Dr. R. Beulah Jeyashree

Principal & Secretary,  
Lady Doak College, Madurai.

## Organising Secretaries

### Dr. A. S. Priscilla

Dean of Academic Affairs (Sciences)  
Coordinator, Science Instrumentation Centre  
Associate Professor, Department of Zoology

### Dr. G. Priscilla Sweetlin

Head of the Department of Botany  
Coordinator, Science Instrumentation Centre

### Dr. S. Sinthika

Coordinator, Research and Development Cell  
Assistant Professor, Department of Physics

### Dr. T. Durga Devi

Coordinator, Research and Development Cell  
Assistant Professor, Department of History

## Convenors

### Dr. G. Jayanthi Kalaivani

Assistant Professor  
Department of Chemistry

### Dr. P. Silviya Reeta

Assistant Professor  
Department of Chemistry

## Members

### Ms. G. Priscilla

Assistant Professor  
Department of Physics

### Mrs. S. Amalarani

Associate Professor  
Department of Zoology

### Dr. P. Abirami

Assistant Professor  
Department of Biotechnology



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