

CATHOLICATE COLLEGE

PATHANAMTHITTA, KERALAM

NIRF RANKED INSTITUTION (151-200 BAND)

KIRF RANK 31



PLATINUM
JUBILEE
Signature
PROGRAMME

National

Faculty Development Programme (FDP)
& Workshop on Operation and Maintenance
of Laboratory Equipment (Five-Days)

LABCRAFT

75

Resource Partner

Western Regional
Instrumentation Centre (WRIC), Mumbai
(An institution funded by the University Grants Commission, New Delhi)

Organized by

Postgraduate & Research Department of Botany,
Catholicate College, Pathanamthitta, Kerala

In collaboration with

MG University, Kottayam
Bhaskaracharya College of Applied Sciences, University of New Delhi

Supported by

Botany Alumni Association
Postgraduate & Research Department of Zoology
Postgraduate & Research Department of Chemistry
Postgraduate & Research Department of Physics



ज्ञान-विज्ञान विमुक्तये



1st to 5th

DECEMBER 2026

@ CATHOLICATE COLLEGE
PATHANAMTHITTA

About the Workshop

This five-day workshop is designed to build the capacity of faculty members, laboratory assistants, technicians, students, and researchers in the operation, maintenance, calibration, and basic repair of laboratory instruments. It focuses on improving the functionality, longevity, and sustainability of laboratory facilities through hands-on training.

Objectives

- Explain the working principles of analytical instruments.
- Train participants in operation and calibration.
- Teach preventive maintenance and repair protocols.
- Develop troubleshooting skills to identify and rectify common faults.

Expected Learning Outcomes

- Operate laboratory instruments safely and efficiently.
- Perform routine calibration procedures.
- Carry out preventive maintenance.
- Troubleshoot common operational problems.
- Apply best laboratory practices in teaching and research.

Programme I – Botany, Zoology, Biosciences & Chemistry

Basics of electrical and electronic components

- Maintenance of laboratory instruments.
- Operation and repair of oven, incubator, hot plate, heating mantle, magnetic stirrer and water bath.
- Calibration and maintenance of pH meter, colorimeter, flame photometer, spectrophotometer and conductivity meter.
- Operation and maintenance of optical microscope and analytical balance.

Programme II – Physics

- Basics of electrical and electronic equipment.
- Maintenance and repair of laboratory instruments.
- Multimeters: operation and repair.
- Power supplies: fabrication, testing, calibration and repair.
- Function generator, signal generator and CRO: working principles and repair.

About WRIC, Mumbai

Western Regional Instrumentation Centre (WRIC), Mumbai, is an autonomous institution established in 1977. It is funded by the University Grants Commission (UGC), New Delhi, in association with University of Mumbai as a part of its comprehensive programme of establishing University Science Instrumentation Centres (USICs) all over the country. WRIC is engaged in R&D activities for the development of new instruments and technologies, including educational aids for effective training. The organization acts as a resource centre in instrumentation for more than 70 university science instrumentation centers spread all over India. At present, WRIC is the only regional instrumentation centre in India which has been recognized as a 'National Facility Centre for Instrumentation' by the Government of India.

About Catholicate College, Pathanamthitta

Catholicate College, Pathanamthitta, was established in 1952 and is now proudly celebrating its 75th year of service and excellence. Affiliated with Mahatma Gandhi University, Kottayam, the college is a minority institution under the Malankara Orthodox Syrian Church. Over the past seven and a half decades, the institution has made significant contributions to higher education by nurturing the academic aspirations, talents and holistic development of generations of students in the region. The college was inaugurated by Sri Chithira Thirunal Balarama Varma, the then Rajpramukh of the Travancore-Cochin Union, on 1st August 1952.

The college has an eco-friendly 23-acre campus equipped with state-of-the-art infrastructure and modern facilities. At present, the college offers 15 Undergraduate and 13 Postgraduate programmes, along with 10 Ph.D. programmes, strengthening its commitment to advanced learning, research and academic excellence. Catholicate College has been reaccredited with an A++ Grade in the Fourth Cycle of NAAC accreditation, with a CGPA of 3.53, reflecting its sustained commitment to quality education and institutional excellence. The college is ranked in the 150–200 band in the NIRF and secured 31st rank in KIRF 2025.

Who can apply?

- Faculty Members
- Laboratory Assistants
- Researchers from Physics, Chemistry and Biosciences

Registration

Registration Fee : ₹ 2500 (includes workshop kit, lunch, tea and snacks).

Maximum participants : 40 (30 for Chemistry & Biosciences and 10 for Physics).

Register Now

CLICK HERE



Last Date
30th October 2026

Advisory Group

WRIC, Mumbai

Chief Patron

Dr. Shivram S Garje, I/C Director, WRIC

Coordinator

Mr. N. Nageswara Rao Technical Officer II (WRIC)

Faculty members

Ms. Minal Tamhankar

Ms. Sarita Thopte

Mr. Sudhir Kumar

Mr. Govind Chitte

Mr. Milind Shidruk,

Catholicate College, Pathanamthitta

Chief Patron

Prof. (Dr.) Renny P Varghese, Principal

Coordinator

Prof. (Dr.) Binoy T Thomas (Bursar & HoD in Botany) 9447087024

IQAC Coordinator

Dr. Saino Hanna Varghese, 9400713722

Faculty Coordinators

Dr. Gokul G Nair (Botany) 9645544975

Ms. Jini K Jose (Physics) 9995904878

Dr. Aswathy Joseph (Chemistry) 9495244558

Ms. Susan K Wilson (Zoology) 9496345263

BCAS, University of New Delhi

Chief Patron

Prof. (Dr.) Avneesh Mittal, Principal

Coordinator

Prof. (Dr.) Sidharth Sirohi

Faculty Coordinator

Dr. Anjali Saxena (Zoology)

Note

- Participants are advised to bring defective laboratory instruments for repair.
- Certificates will be distributed during the valedictory function on the final day.
- Student hostel accommodation will be provided to limited applicants on a first-come, first-served basis, subject to availability. The accommodation fee is ₹500 per day, including food.
- Participants who require accommodation outside the college hostel are requested to make their own arrangements and contact hotels directly.
- **Certificate eligible for consideration under CAS promotion, subject to applicable UGC and University regulations.**