

# WORKSHOP ON MATERIAL CHARACTERIZATION TECHNIQUES (WMCT 2023)

22-23 March 2023



Department of Physics  
Union Christian College Aluva



under the Scientific Social Responsibility Policy of  
Department of Science and Technology

## ABOUT

The Physics Department of Union Christian College, established in 1926, has scaled new heights in the last decade. It has now five full-fledged research labs in Thin Films, Nanomaterials, Optics, Optoelectronics and Theoretical Research which have national and international research collaborations. The development has been made possible through the support of various research funding agencies like DST, DAE, UGC, BRNS and KSCSTE in the form of major and minor projects sanctioned to faculty members of the department and the KSCSTE SARD scheme.

The Department of Physics is organizing a two day workshop as part of the SSR policy in a DST project (Ref No: CRG/2020/000448) sanctioned by Govt. of India. This workshop on Material Characterization techniques is to provide a broad overview of the experimental and theoretical techniques which are generally used for characterizing materials. This program will include introductory lectures on structural and optical characterization of materials, overview of instrumentation and data analysis. This workshop is aimed at fostering research culture among faculty members, research scholars, postgraduate students and aspiring undergraduate students. All are cordially invited. Please follow the link provided to register.

### Convenors

|                           |                       |
|---------------------------|-----------------------|
| Prof. Rachel Reena Philip | Dr. Manu Punnen John  |
| Dr. Reshmi R.             | Head,                 |
| Dr. Shinoj V. K.          | Department of Physics |

### Organizing Committee

|                    |                 |
|--------------------|-----------------|
| Ms. Rakhy Raphael  | Dr. Alex Mathew |
| Dr. Pramod Dominic | Dr. Madhu K..   |



## TECHNICAL SESSION

**TB Ninan Hall**

**22-03-2023 Wednesday**

**10.00 am: Inauguration**

**10.30 am: Prof. Reji Philip, RRI Bengaluru**

*Linear Optical Characterization Techniques*

**1.30 pm: Dr. Subramanyan N V, NIT Calicut**

*Optical Microscopic Techniques*

**3.00 pm: Poster Presentation - Session 1**

**23-03-2023 Thursday**

**10.00 am: Dr. Shibu M Eapen, SAIF-STIC**

*X-ray Diffraction: Basic Principles,  
Instrumentation & Data Analysis*

**1.30 pm: Dr. Manoj R, Maharajas College**

*UV-Vis Spectrophotometry:  
Instrumentation & Data Analysis*

**3.00 pm: Poster Presentation - Session 2**

Abstracts (limited to 300 words) are invited for poster presentation from faculty members, researchers and PG students.

**Last Date: 17 March 2023**

Shortlisted full papers will be published in proceedings with ISBN.

Registration charges: **Rs. 200/-**. (Lunch will be provided for registered participants.)

<https://forms.gle/xR9Uxt8QYfTL7aAM6>

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