

# WORKSHOP ON MATERIAL CHARACTERIZATION TECHNIQUES (WMCT 2022)

**DATE**  
25/03/2022

**ORGANIZED BY**  
DEPARTMENT OF PHYSICS



UNION CHRISTIAN COLLEGE, ALUVA



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## About

Union Christian College Aluva is celebrating her centennial in 2021-22. The Physics Department which was established in 1926 has scaled new heights in the past few years and has developed into a research department with 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 through major and minor projects sanctioned to faculty members of the department and the KSCSTE SARD scheme.

The Department of Physics UC College is organizing a one 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 '**Nanomaterials Characterization: Experimental and Theoretical Aspects**' is to provide a broad overview of the experimental and theoretical techniques which are generally used for characterizing nanomaterials. This program will include introductory lectures on electrochemical and electrical characterizations of nanostructured materials, overview of data analysis tools and techniques, working knowledge and application of X-ray diffraction and scanning electron microscopy. 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 QR code or link provided to register.

Convener  
Prof. Rachel Reena Philip

Co Convenors  
Dr Reshmi R.  
Dr Shinoj V. K

Dr Alex Mathew  
Head, Department of Physics

Dr Manu Pumen John  
Dr Madhu K.

Organizing Committee

Dr Pramod Dominic  
Ms. Rakhy Raphael



## TECHNICAL SESSION

Venue: Physics Department Seminar Hall

9:30 a.m.: Registration and Inauguration

10:00 – 11:00: Invited Talk 1

Topic: **Nanostructured Materials: Energy Applications**

Dr S Jayalekshmi

Professor (Emeritus), Department of Physics  
Cochin University of Science and Technology

11:30 – 12:30: Invited Talk 2

Topic: **Nanostructured Materials: Optical and Electrical Characterizations**

Dr Saji K J

Associate Professor,  
International School of Photonics,  
Cochin University of Science and Technology

1:30 – 2:30: Invited Talk 3

Topic: **Nanostructured Materials: Surface Characterizations**

Dr Johns Naduvath

Assistant Professor, Department of Physics  
St Thomas College, Thrissur



Please scan the QR Code or click the link below for registration (Free)

<https://forms.gle/NyBLWRCY8xtoSAS7>

Register before Thursday 24 March 2 p.m.