

## REGISTRATION FORM

Name : \_\_\_\_\_

Qualification : \_\_\_\_\_

Designation : \_\_\_\_\_

Organization/Institution : \_\_\_\_\_

No. of Years of Teaching/Research

Experience: \_\_\_\_\_

Area of research : \_\_\_\_\_

Please write how this workshop is beneficial to you:

\_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

Address for

Correspondence: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Mobile(s) No.: \_\_\_\_\_

E-mail(s) ID: \_\_\_\_\_

Accommodation (Put a  Mark): Required Not Required

Declaration by the Applicant

If selected, I agree to abide by the rules and regulations of the workshop/training programme and shall attend all the sessions.

Date: \_\_\_\_\_ Signature of the Applicant

Recommended and Forwarded

Office Seal

Signature

Head of the Department/ Institution

### Local Organizing Committee:

#### Chief Patron:

Prof. S.Ramachandram, Vice-Chancellor, O.U

#### Patrons:

Prof.Ch. Gopal Reddy, Registrar, O.U

Prof. T. Parthasarathy, Dean, UGC, O.U

Prof. Ch. Venkata Ramana Devi,

Dean, Faculty of Science,O.U

Prof. Shivaraj, Principal, U.C.S., O.U

#### Chairman:

Prof. J.Siva Kumar, Head, Department of Physics

#### Co-Chairman:

Prof. G. Prasad, Chairman, BOS in Physics

#### Convener:

Prof. M.V.Ramana Reddy

#### Secretary:

Dr.C.P.Vardhani

#### Members :

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Prof. A. Sadananda Chary

Prof. K. Madhukar

Prof. Syed Rahman

Prof. D. Karuna Sagar

Prof. S.Narender Reddy

Ms. K. Uma Sundari

Dr. M. Srinivas

Mrs. K. Kirana

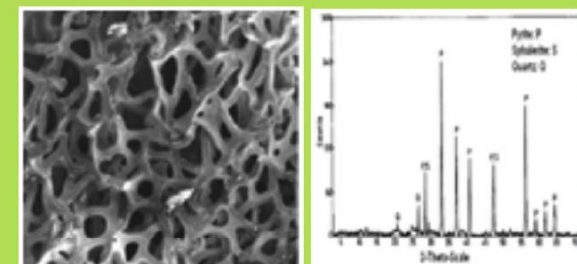
Dr. Md. Shareefuddin

Dr. R.Sandhya

Dr. N.V.Prasad

Dr. Moumita Saharay

## National workshop on Advanced Material Characterization Techniques (NWAMCT-2018) 31<sup>st</sup> August 2018



*Organized by*

**Department of Physics,  
University College of Science,  
Osmania University.**

**(University with Potential for Excellence and  
Accredited by NAAC with 'A+' Grade)**

National workshop on  
**Advanced Material  
Characterization Techniques**  
**31<sup>st</sup> August 2018**

**The Department of Physics, Osmania University,** Hyderabad takes the pleasure of inviting you all for your active participation, in this unique “*National Workshop on Advanced Material Characterization Techniques*” being held on 31<sup>st</sup> August 2018 at the Department of Physics, University College of Science, Osmania University, Hyderabad.

**Overview of the Workshop:**

In the context of advancements made in technology related to thin films, display devices, lighting and solar energy devices, modern topics are being introduced into the curriculum in both technical and science education. However, there is an inherent lag in teaching and learning of these concepts due to lack of exposure and opportunity to learn by hands-on experience. The teaching and learning methodologies are still being evolved in these topics. Hence, it is important for teachers of higher education and research scholars aspiring to be in teaching profession to be abreast of emerging trends in the curriculum so as to understand and teach these topics. Faculty need to update and reorient themselves to meet the rapidly changing professional and scientific needs of the stakeholders. This workshop will enable the participants to learn the basic concepts involved in these advanced topics in a scaled down approach. Lectures and hands-on sessions by eminent experts from reputed institutes will provide a stimulating and enriching experience to the participants so as to excel in understanding of these topics.

**Objectives of the Workshop:**

- ☒ To impart effective teaching/learning methodologies of advanced material characterization techniques.
- ☒ To educate the participants on the experimental skills of material characterization in bulk and thin films & optoelectronic devices.
- ☒ To motivate young minds and to build confidence in them to take research in materials characterization.

**Topics in the Workshop:**

- ☒ Structural characterization using X-Ray diffraction
- ☒ Surface characterization using SEM/TEM/AFM
- ☒ Electronic structure characterization using XPS

**Resource persons:**

Faculty members and scientists from centrally funded Institutes/ Universities, NITs and Scientists from ARCI will deliver lectures.

**Osmania University**

(University with Potential for Excellence and Accredited by NAAC with 'A+' Grade in third cycle)

The Osmania University, established in 1918, is one of the oldest learning centers in India. Ever since its inception, the University showed remarkable progress, sustained and integrated development of all disciplines.

Through multi-faceted range of programs in the faculties of Arts, Humanities, Basic Sciences, Social Sciences, Law, Engineering, Technology, Pharmacy, Commerce and Business Management with corporate infrastructure and excellent faculty.

The University has carved itself a niche for academic Excellence, Osmania University is accredited with Grade 'A+' by NAAC in the third cycle of reaccreditation and UGC has accorded a status of University with Potential for Excellence to Osmania University in 2012.

**Department of Physics**

(UGC-SAP & DST-FIST Sponsored Department)

The Department of Physics was started, along with the inception of Osmania University, in the year 1918. Presently the department offers M.Sc (Physics) with the specializations in Electronics & Instrumentation, Materials science, Solid State Physics and Nano Science, and M.Sc.(Applied Electronics) and PG Diploma in Radiological Physics. The constituent colleges of the University offers specializations in Bio-Physics, Condensed Matter Physics, Electronics & Communication systems and Microwaves at PG level. The Department of Physics is recognized under UGC-SAP and DST-FIST. Besides this funding from UGC, the individual staff members have been attracting financial support for their research projects from various organizations like DST, DRDO, DAE, NSC-UGC, BRNS etc. The Department is a nodal department in UGC University with potential for excellence focused area research (UGC-UPE-FAR) program. The Department is also participating in DST Purse (Phase II) Program of the University.

The research facilities available in the department include UV-Visible spectrophotometer, DSC, X-ray Diffractometer, RF magnetron sputtering system, Scanning Electron Microscope and B.H loop tracer. The

thrust areas of research in the Department of Physics are Solid State Physics and Materials Science for over three decades.

**Registration is open to:**

- ☐ Faculty members of higher education institutions in both Science and Engineering disciplines.
- ☐ Research Scholars aspiring for technical teaching and to continue research in the areas of materials characterization.

**How to Apply:**

Eligible candidates may apply by submitting the scanned copy of the filled-in registration form (attached with this E-mail/Brochure) **by E-mail to: [nwamct2018@gmail.com](mailto:nwamct2018@gmail.com) on or before 16-08-2018.**

**Selection and Confirmation of Participation:**

Upon receipt of the registration form, the applicants will be selected based on their teaching aspirations and research interest relevant to the workshop. Selected applicants will be intimated through E-mail. The applicants have to send the prescribed registration fees within two days after receipt of the intimation of selection. Only after receiving the proof of payment of registration fee, participants will be sent confirmation of their participation through E-mail by **20-08-2018**.

**Registration fees:**

**Faculty Rs. 1,000/-**  
**Research Scholars Rs. 500/-**

Registration fee includes delegates kit, souvenir, tea/coffee, snacks, lunch and should be paid along with the registration form. **Registration fee is payable Online Payment Gateway/Demand Draft of a Nationalized Bank in favour of the Convener, Department of Physics, Osmania University, Hyderabad payable at Hyderabad.**

**Contact Details:**

**Convener/ Secretary,**  
**NWAMCT - 2018,**  
**Department of Physics,**  
**Osmania University, Hyderabad -500007.**  
**Email:[nwamct2018@gmail.com](mailto:nwamct2018@gmail.com)**  
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