



**SRM MADURAI**  
**COLLEGE FOR ENGINEERING AND TECHNOLOGY**

(Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai)

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**Department of Mechanical Engineering  
and  
R&D Cell**



**Jointly Organize a webinar on**

**ADVANCE RESEARCH IN MATERIALS  
AND MANUFACTURING INDUSTRIES**

**Dr. A. Adinarayanan**

Associate Professor,  
Department of Mechanical Engineering,  
CENTRE DIRECTOR FOR "Research in Advanced  
Materials and Manufacturing (RAMAM)"  
Academy of Maritime Education and Training,  
Kanathur, Chennai.



**25th February, 2024**



**02:00 pm onwards**

*Hosting Platform : Google Meet*

*G Meet Link : <https://meet.google.com/oef-jffe-kvg>*

**All are cordially invited..!**

*Coordinator*

**Dr. K. BALAMURUGAN**  
ASP/ MECH and R&D Cell

*Co-Convener*

**Dr. R. ASHOKKUMAR**  
HoD - MECH

*Convener*

**Dr. S. DURAIRAJ**  
PRINCIPAL



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### CHARACTERIZATION METHOD(CONTD.)

After testing the samples with tensile and impact tests, the tested samples are viewed and analyzed by the Scanning Electron Microscope to reveal the information about the samples including external morphology (texture), chemical composition, and crystalline structure and orientation of materials in broken samples. The SEM analysis will be done in Anna University.

#### Limitations :

Samples must be solid and they must fit into the microscope chamber.

Maximum size in horizontal dimensions is usually on the order of 10 cm, vertical dimensions are generally much more limited and rarely exceed 10 - 15 mm.

SEM's cannot detect very light elements (H, He, and Li)

#### Application:

To measure the surface topography, material composition of the material

To identify the external morphology, structure and orientation of the material

adinarayanan is presenting




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You ⋮



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