

SEM Facility

Rules for using SEM facility at PSG IAS

- Nanotech facility services can be availed on charge basis.
- Prior registration with payment is essential to avail any of these facilities.
- Appointment will be given as per queue and the allotted time for the slot will be informed through E-mail from sem@psgias.ac.in
- For a better analysis basic details about the sample should be given.
- Before giving the sample for SEM analysis, it is suggested that the sample is characterized by any other techniques such as XRD, TG-DSC and DLS etc.
- No refund of the payment made in any case.
- External colleges & Universities and industry users should pay the charges in advance before the characterization is carried out.

Contact details: Email: sem@psgias.ac.in Tel: 0422 4344000 extn: 4321

Faculty In-Charge: Dr. Anuradha M. Ashok, Professor, PSG IAS, Email: anu@psgias.ac.in

SEM & EDS Specification



Model: Carl ZEISS EVO 18- Germany-

Operating modes: Secondary electron (SE) and Backscattered electron (BSD) Modes. Up to 200 nm resolution depends up on samples. It is attached with AMETEK Team V.4.3 EDS detector.

SEM Sample preparation

- SEM specimen preparation facility with Au/Pd coating facility can be availed on chargeable basis
- User may also prepare their SEM Samples by themselves.
- SEM specimens of biological samples should be prepared by the user. Coating can be given at our facility
- **Metallic samples**
 - Bulk metallic samples size should be less than **1cm * 1 cm *1cm** and also base of the sample should be perfectly Flat.
- **Powder samples**
 - Powders samples should be in perfectly dried condition. Quantity of the powder samples needed **5 to 10 grams**.
- **Biological Samples**
 - Biological Samples should be in perfectly dried condition. Base of the sample should be perfectly as Flat (Bead, Solid etc).

Charges for using SEM Facility at PSGIAS

S.No	Analysis		Internal	External	Industry
			Per Sample		
1	Coating		100 /-	250 /-	500 /-
2	SEM Analysis		500 /-	750 /-	1500 /-
3	EDS	Spectrum only (No image)	100 /-	250 /-	750 /-
		Point analysis	200 /-	400 /-	1000 /-
		Line Scanning	200/-	250/-	750/-
		Elemental mapping	200 /-	500 /-	1500 /-
4					
5	One Slot for 45 Minutes*		1500 /-	2500 /-	5000 /-
6	Including 18% GST				

*** Charges are applicable per slot basis and per sample basis. This will depend on nature of the sample and data required.**

Payment account details:

Beneficiary Name : PSG Institute of Advanced Studies.
Account Number : 1481412317.
GST No. : 33AAATP2881NAZY.
Bank Name : Central Bank of India.
Bank Address : Peelamedu, Coimbatore - 641 004.
IFSC Code : CBIN0280913.

Note : Payment can be done after the analysis is done. We accept only online payments

Postal Address:

SEM Facility (I-109),
PSG Institute of Advanced Studies,
Peelamedu,
Coimbatore – 641 004