

School of Chemical Technology
North Maharashtra University Jalgaon

Note regarding commissioning of Field Emission Scanning Electron Microscope (FESEM)

The recent developments in Nanotechnological research have opened exciting new opportunities in many scientific and engineering applications at the molecular scale. To fulfill the need of characterizations of Nanomaterials and Nanostructures synthesized by Researchers and industries in the Khandesh and Maharashtra region, North Maharashtra University (NMU) Jalgaon has purchased Field Emission Scanning Electron Microscope (FESEM) under XIth plan of UGC as a part of central instrumentation facility. Application areas include the structural and morphological characterization of nanoparticles, nanowires and nanotubes, three-dimensional nanostructures, quantum dots, magnetic nanomaterials, photonic structures, and bio-inspired nanomaterials.

The FESEM facility at NMU Jalgaon has been installed at the School of Chemical Technology and inaugurated on 08th October 2012 by Prof. Dr. Sudhir U. Meshram, Hon'ble Vice Chancellor, North Maharashtra University, Jalgaon. The facility has been opened to all Schools/ Departments and affiliated colleges of all universities, institutions and industries in India on payment of sanctioned charges. The type of analysis facility provided and respective charges have been provided in the attached 'FESEM facility requisition form'. User can now avail facility by payment of respective charges and booking slots as per university rules.



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Director,

School of Chemical Technology,
NMU, Jalgaon

FESEM Sample Testing Rate

It is unanimously decided to charge following fees per slot (4 Samples) for the analysis:

Sr. No.	Name of the analysis	Charges for NMU Researchers for basic analysis (Rs.)	Charges for other than NMU Researchers for basic analysis (Rs.)	Charges for Industry (Rs.)
Basic Analysis				
1.	FESEM (conducting samples)	1500/-	3000/-	6000/-
Additional Analysis				
2.	EDAX	250/-	500/-	1000/-
3.	Gold Coating (For non-conducting samples)	500/-	500/-	1000/-
4.	Ultramicrotome + STEM	2000/-	4000/-	8000/-

Note:

- 1) Per day only 3 slots will be booked. Saturday will be kept free for maintenance, free slot and reallocation of cancelled slots.
- 2) Following schools on the campus – School of Chemical Sciences, School of Chemical Technology, School of Life Sciences, School of Physical Sciences and School of Environmental and Earth Sciences will be provided one free slot each (only on Saturday) per month, based on the recommendation by concerned Director.
- 3) The requisition for FESEM will be submitted Online through NMU website. Form will be accepted Online after payment of FESEM charges and allotment of slot.
- 4) In case, the allotted slot is required to be cancelled due to unavoidable circumstances, (i.e. repair and maintenance of instrument, non-availability of electricity/operator, unforeseen circumstances) the same slot will be allotted on nearest Saturday.

Prof. R.D. Kulkarni,
In-charge FESEM