

## **Department of Metallurgy and Materials Engineering COEP Technological University (COEP Tech.), Pune**

(A Unitary Public University of Government of Maharashtra) Shivajinagar Pune411005

## SEM Imaging and EDS Requisition Form

Cop nes	PRIVERSITY PORT	Shivajinagar P	ar Pune411005				(For COEP-Students)	
Field Emission Scanning Electron Microscopy (FE-SEM) (Make -ZEISS, Model SIGMA IV)						V)		
Field	Test No of Samples Suddent's understanding of SEM and EDS system in relation to their project work, write according							
1	SEM	Imaging:	зитри	student's understanding	ig of SEW and EDS system in t	ciation to	their project work, write accordingly)	
2	Fnora	y Dienoreiyo		_				
2								
	Spectr	oscopy (EDS)						
Requirements: Magnifications:X/X. Imaging: Secondary Electron / Back-Scattered / In-Lens								
EDS Scan Details (if Required): Point Scan/ Line Scan/ Area Scan/ Elemental Mapping/								
Sample Details: Bulk / PowderMaterial Grade/ Composition:								
Details of Heat Treatment/ Processing :								
<ul> <li>Instructions:</li> <li>Sample Dimensions for SEM Imaging: Round or Square Solid Specimen with maximum of 15 x 15 x 15 mm size. In case</li> </ul>								
	of Powder Specimen: Maximum of 1 gram Powder. Samples should not be potentially hazardous, should be free of							
	oil/lubricant/wax/dust, non-volatile and should not decompose/ evaporate in vacuum (10 <sup>-5</sup> Pa).							
	ranginetic and the biological samples are series, promoted Ensure and sample is non-ranginetic, and even area in							
<ul> <li>case it is a biological sample.</li> <li>Mandatory conditions for all metallic / ceramic samples: Optical Microscopy Images of the samples must be produced to</li> </ul>								
	Mandatory conditions for all metallic / ceramic samples: Optical Microscopy Images of the samples must be produced to confirm proper preparation of specimen to avoid wastage of slot timing. In case Slot is wasted because of bad quality of							
	samples or absence of concerned student, student will be allotted slot either after 1 week or as per availability slot schedule							
				ined for such defaulters.				
	semic greation (promining) straight as to quite to a made on what sharely and the analyze as there we are							
be calculated time assigned. Students are advised to read research papers and Books to find relevant details to avoid testing of unnecessary samples and loss of SEM operation Time.								
Undertaking by student(s)/JRF/SRF/ Project Staff: I/We have read all the above instructions carefully. Information provided								
by me in this form is true to my knowledge and I take responsibility for any damage or malfunctioning of the equipment that may								
result from the wrong information provided by me in this form and/or because of submission of inappropriate/wrong samples.								
Students Names (and MIS Nos) of all students in project group:  1 Sign of Student-1:								
				<del></del>				
2								
3								
4 Mobile Number-2 : :								
Information to be filled by Project Guide (Faculty)								
I certify that number of samples being submitted through this requisition requires SEM analysis as Optical Microscopy is								
not sufficient for the analysis/purpose mentioned by the students in above table. These students are working under me for MICRO								
/ MINI / B.Tech. / M.Tech/ Ph.D /Project. This is academic project work and is in collaboration with								
(if any). These samples are not part of any ongoing or upcoming consultancy work.								
Sign with date:								
	Name of Faculty (Project Guide)							
* Please Strike out whichever is not applicable. Department:								
					1		Slot Allotted: (Date & Time)	

Stamp and Sign of Concerned Dept.HOD SEM Lab-In charge HOD (Metallurgy and Materials. Engineering.)

**SEM Operator**