



Course code: CeNS-IA Instrumental methods & Analysis - 2021
Course Schedule

Venue: Classroom

Sl. No	Date and Time	Topic	Instructor	Duration (h)
1.	16 Mar (Tue) 14:30 -15:30	<i>Electricity: types of connections, sockets, measurements</i>	D S Shankar Rao	1
2.	23 Mar (Tue) 14:30 -15:30	<i>Data collection, Analysis; Error Analysis</i>	P Viswanath	1
3.	25 Mar (Thu) 14:30 -15:30 16:00-17:00	<i>3D Printing</i> Lab session	Ashutosh K Singh	1
4.	30 Mar (Tue) 14:30 -15:30 16:00-17:00	<i>Absorption spectroscopy: UV -Vis and FT-IR</i> Lab session	C V Yelamaggad	1
5.	1 Apr (Thu) 14:30 -15:30	<i>Photoelectron spectroscopy: XPS, UPS and Auger techniques</i>	Pralay K Santra	1
6.	6 Apr (Tue) 14:30 -15:30 16:00-17:00	<i>Thermal analysis: Control and measuring temperatures, ThermoGravimetric Analysis, Differential Thermal Analysis</i> Lab session	S Krishna Prasad	1
7.	8 Apr (Thu) 14:30 -15:30 16:00-17:00	<i>Differential Scanning Calorimetry</i> Lab session	S Krishna Prasad	1
8.	12 Apr (Mon) 14:30 -16:00 16:00-17:00	<i>X-ray and Nuclear methods: Diffraction techniques, X-ray absorption, Fluorescence and Small Angle Scattering</i> Lab session	D S Shankar Rao	1.5
9.	15 Apr (Thu) 14:30 -15:30	<i>Mass spectrometry: MALDI</i>	C V Yelamaggad	1
10.	20 Apr (Tue) 14:30 -15:30 16:00-17:00	<i>Vacuum techniques</i> Lab session	S Angappane	1
11.	22 Apr (Thu) 14:30 -15:30	<i>Resonance spectroscopy: NMR</i>	C V Yelamaggad	1
12.	27 Apr (Tue) 14:30 -15:30 16:00-17:00	<i>Optical microscopy: Confocal microscopy</i> Lab session	K S Krishnamurthy	1
13.	29 Apr (Thu) 14:30 -15:30 16:00-17:00	<i>Contact angle measurement</i> Lab session	P Viswanath	1
14.	4 May (Tue) 14:30 -15:30 16:00-17:00	<i>Electric and Magnetic measurement techniques</i> Lab session	S Angappane	1
15.	6 May (Thu) 14:30 -15:30	<i>Ferroelectric measurement techniques</i>	D S Shankar Rao	1

16.	11 May (Tue) 14:30 -16:00 16:00-17:00	<i>Electron and Probe microscopy: SEM, TEM, AFM</i> Lab session	Neena S John Pralay K Santra	1.5
17.	13 May (Thu) 14:30 -15:30	<i>X-ray synchrotron methods</i>	Pralay K Santra	1
18.	18 May (Tue) 14:30 -15:30 16:00-17:00	<i>Rheometry</i> Lab session	Geetha G Nair	1
19.	20 May (Thu) 14:30 -15:30 16:00-17:00	<i>Raman spectroscopy</i> Lab session	H S S Ramakrishna Matte	1
20.	25 May (Tue) 14:30 -15:30 16:00-17:00	Spectroscopic techniques: <i>Fourier Transform techniques</i> <i>Photoluminescence Spectroscopy</i> Lab session	Kavita Pandey	1