JSS MAHAVIDYAPEETHA JSS SCIENCE AND TECHNOLOGY UNIVERSITY

SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING



Constituent College of JSS Science and Technology University Approved by A.I.C.T.E Governed by the Grant-in-Aid Rules of Government of Karnataka **·** .



Identified as lead institution for World Bank Assistance under TEQIP Scheme

Department of Electronics and Communication Engineering

Nano Dielectrics and Devices Lab Room No. EC 101	
• Staff In-Charge : Dr. M G Veena Professor	
Supporting Staff:	Raju S
	Instructor
	Puneeth Kumar
	Helper
Facilities Available	:
U 1	atic Chamber, R meter - 20 Hz to 10 MHz R meter - 1 mHz to 100 kHz,
 Megohmmeter - DC Voltage Range: 1 V to 1500V Resistance Range: 100W to 2020 TW Current Range: 0.01 pA to 20 mA Measurement voltage: from 1 to 1500 volts DC by 1 volt step . Accuracy : +/- (0.5%+ 0.5 V) Misse Observation 	
Micro Ohmmeter -	
Measuring range : 3 m Ω to 30 k Ω	
Resolution : 100 n Ω	
Current range : 10mA to 10A	
High Accuracy 0.03%	
Fast measuring of	capability of 50 measurements per second
-	od, Tilting +/- 2 degree provided for the Sample holder. ment of +/- 10 degree for the Sample Holder.

• Vacuum Oven

Digital PID Temperature Controller, Accuracy: ± 3 °C, Required Vacuum: 500 mm Hg

- High voltage DC power supply
- Ultrasonic Liquid Processors Frequency : 20 kHz Wattage : 250W, 500W, 1500W
- Electrospinning Operating Voltage 0 to 40kV Syringe Size: 1 to 20 ml Types: Infusion Pump Number of Syringes: 1.0, 10 Features: Programmable
- HV Tester Test method : ASTM D149-04. The HV ac voltage (frequency of 50 Hz) Input : 230 Volts Output :60 KV (Max.), 100mA. Control of voltage: Manual

Metering : 4 digit DPM to indicate current (mA)

- Spin Coater,
 2 stages, 500 to 2000 rpm, 2000 to 8000 rpm.
 Vacuum operation,
 standard chuck up to 2" digital display for RPM
 Digital display of time
 PTFE coated S.S bawl
- Analytical Balance Power Supply: AC Adapter 230V +/-20%, 50-60Hz Type: Digital & Electronic Scales Capacity: 220 gm Net Weight: 5.2 kg Operating Temperature: 10 - 40 ° C Response Time: 2-3 sec Pan Size (mm/inch): 90Ø / 3.5''Ø Repeatability : 0.1 mg Readability : 0.1 mg Calibration : Motorised Internal Calibration

Housing Dimension : 340 x 212 x 340 mm Display : Back Lite LCD Display Linearity : 0.2 mg

• Utilization:

Research scholars and PG students carry out fabrication and characterization of developed nanocomposites. Consultancy is carried out for industries, academicians, inhouse, and other universities.

