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## Home

### About DST-FIST

The educational institutions are innovation and knowledge creation. Research in college has three-tier effects concerned with quality of under-graduate & postgraduate education and value of research. They are the source of generating high caliber manpower and repositories of national intellectual wealth in Science & Technology (S&T) sector, which if channelized properly, may lead to socioeconomic development.

In the emerging global scenario, India can be an ideal destination due to its cost effectiveness and availability of knowledge base. It must also aim for a permanent position in the field of Science & Technology. The purpose of establishing these centres is to provide data collection facility from analytical equipments to scientific community for their advanced research with nominal charges. The facility has grown into a major centre for spectral measurements, molecular and crystal structure determination and materials characterization.

### Instrument Facility

#### DST-FIST INSTRUMENTATION RESEARCH FACILITY CENTRE

DST-FIST at the D.K.M College for Women, Vellore is equipped with DST-FIST instruments to carry out spectral measurements, structure determination and chemical analysis.

#### LIST OF INSTRUMENT

S. No.	Instrument	Make/Model	Major Specifications	Type of measurements	Instrument In charge
1.	FT-IR Spectrometer	Schimadzu IR Spirit-T	<b>Range:</b> 4000-400 $\text{cm}^{-1}$ ATR Mode	FT-IR spectra of solid and liquid samples	Dr. N. Jabeena Begum Assistant Professors of Physics Dr. R. Aruna Devi Assistant Professors of Chemistry.
		Schimadzu IRAffinity-1S	<b>Range:</b> 4000-400 $\text{cm}^{-1}$ KBr Disc	FT-IR spectra of solid samples	
2.	UV- Vis spectrometer	Schimadzu UV-1900	<b>Range:</b> 1100-190 nm	UV-Vis of liquid samples	Dr. Dhanam assistant professor of chemistry Dr. B. Hebsiba Elsie Assistant Professor of Biochemistry
3.	Atomic Absorption spectrometer	Schimadzu Model: AA-7000F	High Temperature Burner Head for $\text{N}_2\text{O}$ - $\text{C}_2\text{H}_2$ Flame	Liquid samples of Cu, Zn, Fe, Cd and Cr	Dr. T. Gomathi Dr. S. Sashikala Assistant Professors of Chemistry

4.	Electrospinning	ESPIN - NANO	Typical potential difference applied in the range of 8-30 kV between tip to collector distance of 10-20 cm.	Electrospinning is a technique used for preparing polymer and ceramic nano fibers using high viscous polymer solution subjected to high DC electric field.	Department of Chemistry
5.	Freeze Dryer /Lypophiliser,	Model FD-80	Condenser temp. -80°C	Drying biological materials such as microbial cultures, concentration and recovery of reaction product etc.,	Dr. V. Rekha Assistant Professors of zoology Dr. A. Vidhya Assistant Professors of microbiology
6.	Fully automated biochemistry Analyser (Autoanalyser)	Model: Autora	200 Tests /Hour Two probe system On board refrigeration On board laundry Permanent Cuvettes CE certified	For the Biochemical analysis of Serum sample( Glucose, Urea, Uric acid, Total Protein, Creatinine, Bilirubin, Enzymes, Ca,Cl, P, Lipid Profile)	Dr. V. Prabha Assistant Professors of Bio Chemistry Dr. A. Vinothini Assistant Professors of zoology

### CHARGES LIST PER SAMPLES

S.No	INSTRUMENT	CHARGES OF INTERNAL	CHARGES OF EXTERNAL + GST 18%	INDUSTRY+ GST 18%
1	FTIR	Rs. 75/-	Rs.150/-	Rs.400/-
2	UV-Vis ANALYSIS	Rs. 50/-	Rs.100/-	Rs.350/-
3	AAS	Rs. 150/-	Rs. 300/-	Rs. 800/-
4	LYOPHILIZER	RS.450/- 1 <sup>st</sup> one hr + Rs.50 For additional hour	RS.900/- 1st one hr + Rs.100 For additional hour	RS.1750/- 1st one hr + Rs.200 For additional hour
5	ELECTROSPINNING	1. Flat plate type = Rs. 100/- 2. Rotating drum = Rs. 200/- 3. Disc type =Rs. 200/-	1. Flat plate type = Rs. 300/- 2. Rotating drum = Rs. 600/- 3. Disc type =Rs. 600/-	1. Flat plate type = Rs.600 /- 2. Rotating drum = Rs. 1200/- 3. Disc type =Rs. 1200/-
6	AUTOANALYSER	1.Glucose, Urea, Uric acid, Total Protein = Rs. 260/- 2.Creatinine, Bilirubin = Rs. 75/- each 3.Enzyme assay (SGOT, SGPT) =125/- each 4.Lipid profile (Cholesterol, Triglyceride, LDL,HDL) =Rs.900/- 5.Calcium, Chloride, Phosphorus = Rs. 125/-each 6.HbA1C = Rs. 200/-	1.Glucose, urea, uric acid, total protein = Rs. 520/- 2.Creatinine, bilirubin = Rs.150/-each 3.Enzyme assay (SGOT, SGPT) = Rs.250/-each 4.Lipid profile (Cholesterol, Triglyceride, LDL,HDL) =Rs.1800/- 5.Calcium, Chloride, Phosphorus = Rs.250/- each 6.HbA1C =Rs.400/-	