

Areas of consultancy

Civil engineering

Road & Building design, DPR for civil projects, Internal architecture, soil testing, material testing, energy management in building envelop, Water management

Chemistry

Polymer and composite, electro chemistry, bio-Sensors, environmental chemistry, supra-molecular chemistry, pharmaceutical chemistry, metal complex

Mechanical Engineering

Energy conservation, Composite material, machining, CFD, electro less deposition, XRD fracture analysis, corrosion, nano material coatings, Analysis, Energy management, CO₂ emission mitigation, combustion, failure analysis, tribology, industrial safety, green manufacturing

ECE

Biomedical image processing, DSP, VLSI design, Wireless sensor network, power system, microwave technology

EEE

Renewable energy, power quality, energy audit, power system, medical image processing, energy management, power system modeling and optimization

Bio-Technology

Infectious and inflammatory diseases Drugs formulations, bio process technology, plant derived anti-mitotic compounds, genomics, neuro physiology, application of nano particles, genetics, metagenomics Environmental waste management, plant tissue culture, RNA Silencing technology

ICE

Fault diagnosis in process industries, Robotic and automation, bio signal analysis, biomedical image processing

Physics

Crystallography, condensed matter physics, fuel cell, conducting polymers, nano materials, spectrography.

Biotechnology

- * Deep Freeze
- * Gas chromatography System
- * Gel-documentation System
- * Fermentor
- * Laminar Flow Hoods
- * Refrigerated Centrifuges
- * Thermocycler
- * Liquid Chromatography System
- * Sonicator
- * UV-VIS Spectrophotometers
- * Ultra-filtration unit and
- * Microplate Reader
- * luorescence and luminescence plate reader
- * Transfection device (Amaxa)
- * Fluorescence Microscope
- * Water purification system (Millipore)
- * Thermocycler

Portable Energy Flow measuring Instruments

S.No	Name of Equipment	Make/Model	Accuracy
1.	Ultrasonic Flow Meter	Model: TDS - 100H Complete set, Make: M/s Flow Suppliers, U.K.) with ultrasonic thickness meter (model: TG 1)	±1% or better of velocity All liquids, Liquid temp: 0-100°C
2.	Anemometer	Velocity vane and thermo Anemometer, model: AVM03, make: prova instruments Inc.	for temp.: 0-50 °C: 0.2 - 17 m/s
3.	Infrared Thermometer	Model: 42510A, Make: Extech instruments	32 - 650°C: of rdg. Repeatability 0.5%
4.	RH Logger & TR Logger	Humidity/temperature data logger, Model: RHT20, Make: Extech instruments	
5.	Flue Gas Analyser	Hand held flue gas analyser, model: KM900plus with carrying case, make: KANE international limited, UK.	Refer below table
6.	Lux meter	Model: 403125, Make: Extech instruments	Up to 200 Klux, 20 KFc ±1.5% for lux, ±1.5% for Fc,
7.	Stroboscope	Combination photo tachometer / stroboscope, model: 461825, Make: Extech instruments	5- 99999 rpm ()
8.	Pressure meter	Model: C9557, make: M/s comark, UK	0 to 25 (bar) ±0.003 kPa (0 to 30 kPa),
9.	Power meter	Combination photo tachometer / stroboscope, model: 461825, Make: Extech instruments	Up to 200 A, 2000 A ±1.5% for V and I, ±2% for kW

Mechanical Engineering

- * AutoCAD 2014
- * Ideas
- * ANSYS
- * CATIA
- * CreO 2.0
- * ARENA
- * Solidworks 2011
- * Unigraphics NX4
- * Production model CNC lathe and CNC milling with CAM simulation software -Edge CAM 10.75, CMAS, (CAM) and Falcon make ROBOT-RCS-6
- * High precession water jet machining
- * CMM, Autocollimator, Toolmakers Microscope, Profile projector and electronic and pneumatic comparators.
- * Fatigue Tester, Creep Tester
- * Corrosion Analyser



Civil Engineering

- * STAAD PRO, ETABS, GRAM++ softwares
- * Digital Turbidity meter, pH meter, UV Spectro Photometer
- * Computerized Universal Testing Machine (100T capacity), Compression Testing Machine (200T capacity) and Brinell and Rockwell Hardness testing machine

VLSI Design

- * Cadence Tools for full custom design
- * Xilinx FPGA tools
- * Altera tools for FPGA design and development
- * PSpice Circuit Simulation Tools

International Research centre

- * Scanning Electron Microscope (Carl Zeiss EVO 18)
- * Energy Dispersive X-Ray Spectrometer (Quantax 200 with X-Flash - Bruker)
- * X-Ray Diffractometer (D8 Advance ECO XRD Systems with SSD160 1 D Detector) (Bruker)
- * Atomic Absorption Spectrophotometer (Shimadzu AA 7000)
- * Fourier Transform Infra-red Spectrophotometer (IR Tracer-100 Shimadzu)

S.No.	Characterization	Educational Institution(Rs.)	Industry(Rs.)
1.	XRD	300.00(normal) 600.00(slow scan)	750.00 1500.00
2.	FTIR	75.00	150.00
3.	AAS	150.00per sample per element (plus sample preparation charge per sample is Rs.50.00)	750.00 1500.00
4.	i)SEM ii)SEM with EDX iii)SEM,EDX with mapping	600.00 per sample 900.00 per sample 1200.00 per sample	750.00 1500.00

Our Esteemed clients

- * Melur Municipality , Madurai district - Civil Engineering
- * Chattrapatti Village Community People - Civil Engineering
- * MIR Project & Consultant- Civil Engineering
- * Venkateshwara Hatcheries Private Limited Hosur- Civil Engineering
- * S.S Anandan Spinning Mills - Rajapalayam- Mechanical Engineering
- * Fenner (India) Pvt. Ltd- Madurai- Mechanical Engineering
- * Triassic Solutions Pvt Ltd, Trivandrum- Mechanical Engineering
- * Society of Energy Engineers and Managers (SEEM)- Trivandrum-
- * Mechanical Engineering

CONSULTANCY SERVICES CENTRE



KALASALINGAM UNIVERSITY

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