



University Science Instruments Center





Director, USIC, Karnatak University, Dharwad

About the Center: University Science Instruments Center (USIC) is a multi-purpose cluster of sophisticated analytical instruments serving the community of research scholars and faculty over thirty years and is at level III as per UGC recommendation. The Center offers services for carrying out advanced scientific research and is backed by qualified and dedicated technical staff (Table 1). The number of instruments (see Table 2) cover wide ranging disciplines from physical, chemical, biological and earth sciences; others include nanoscience, materials science, biotechnology, pharmacology, medical and agricultural sciences. Besides offering services, production and distribution of liquid nitrogen, repair and servicing of small instruments are also done at the Center. Students and faculty of Karnatak University as well as outside colleges and universities regularly visit the Center for measurements.

PURSE Program at USIC: Recognizing Karnatak University as one among fourteen in the country for its performance in research (**with its h-index at 30**), the Department of Science and Technology, New Delhi, sanctioned PURSE Program at Rs 9.00 Crore for augmenting instrumental facilities at USIC in order that comprehensive and advanced research in frontier areas would be pursued by research scholars and faculty. Implementing PURSE in the year 2009 at USIC, four instruments (see Table 2) in the 1st installment at a cost of Rs 2.4 cr. & Five instruments in the 2nd installment at a cost of 2.5 crore have been procured and installed. Second phase of the PURSE Program at Rs. 15.00 Cr has been sanctioned by DST for continuing the program and for procuring state-of-the-art instrumental facilities and infrastructure. Another Sophisticated Analytical Instrument Facility (SAIF) scheme by the DST has been sanctioned to Karnatak University. The SAIF is being implemented at USIC and the sanctioned facilities include 400 MHz NMR, Powder X-Ray Diffractometer & Scanning Electron Microscope(SEM).

Note to Users: With the available technical staff and financial resources, our endeavor is to offer best service to users. Services for outside users are charged. The users, whether they are from Karnatak University or outside, are to contact the office/staff for details. We offer no postal services nor concession in rates to outside users.

Citation is Mandatory: All the users (research scholars, faculty or others) should acknowledge USIC including instrument(s) used in their publication(s), dissertation, thesis or any other form.

Wishing you the best of time at USIC

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TABLE-1
Technical staff and their responsibilities.

Name & Designation	Qualification	Nature of Duty
<p>Shri. S. V. Myagoti Instrument Engineer</p>  <p>email:svmyagoti@kud.ac.in Contact No.9844049999</p>	<p>Diploma in Mechanical Engineering Certificate course on</p> <ul style="list-style-type: none"> <input type="checkbox"/> Refrigeration & Air Conditioning <input type="checkbox"/> Optical shop practice <input type="checkbox"/> Hardware and Maintenance Computer networking. <input type="checkbox"/> Maintenance of computer Networking WRIC, Bombay <input type="checkbox"/> CAD, CAM Course at WRIC 	<p>In charge of</p> <ul style="list-style-type: none"> <input type="checkbox"/> Liquid Nitrogen Plant <input type="checkbox"/> AAS <input type="checkbox"/> X-ray Detector <input type="checkbox"/> Maintenance of generator <input type="checkbox"/> Single crystal XRD <input type="checkbox"/> NDYAG Laser <input type="checkbox"/> DNA Sequencer <input type="checkbox"/> Ellipsometer
<p>Smt. R. V. Murgod Junior Engineer</p>  <p>email:ramamurgod@kud.ac.in Contact No.9448923416</p>	<p>Diploma in Electronics & Telecommunication Engineering Certificate course on</p> <ul style="list-style-type: none"> <input type="checkbox"/> Instrumentation at I.I.Sc, Bangalore. <input type="checkbox"/> Hardware & Maintenance of Computer Networking at WRIC, Bombay 	<p>In Charge of</p> <ul style="list-style-type: none"> <input type="checkbox"/> GC-MS <input type="checkbox"/> FT-IR Spectrometer. <input type="checkbox"/> Fluorescence Microscope <input type="checkbox"/> High resolution Optical Microscope. <input type="checkbox"/> FT-RAMAN Spectrometer
<p>Smt. C.R.Bharati Senior Technical Assistant</p>  <p>email:crbharati@kud.ac.in Contact No.8722769989</p>	<p>B.E. (Electrical & Electronics Engineering)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Post Graduate diploma in Computer Application in K.U.D <input type="checkbox"/> Certificate Course on Maintenance of Computer Networking WRIC Bombay. 	<p>In charge of</p> <ul style="list-style-type: none"> <input type="checkbox"/> Fluorescence Spectrophotometer <input type="checkbox"/> UV-VIS Spectrophotometer <input type="checkbox"/> X-Ray Detector <input type="checkbox"/> CHNS Analyser <input type="checkbox"/> Maintenance of Water Purifying System <input type="checkbox"/> Fluorescence LifeTime measurement <input type="checkbox"/> UV-VIS NIR Spectrophotometer
<p>Shri. G.D. Kundargi Technician</p>  <p>email:gdkundargi@kud.ac.in Contact No.9448668296</p>	<p>Diploma in Mechanical Engineering</p> <ul style="list-style-type: none"> <input type="checkbox"/> Post Diploma in foremanship <input type="checkbox"/> Certificate course in Mechanical workshop practice <input type="checkbox"/> Cochin University, Cochin <input type="checkbox"/> IDEAS / CAD /CAM/CNC Program at WRIC, Bombay 	<p>In charge of</p> <ul style="list-style-type: none"> <input type="checkbox"/> Liquid Scintillation Counter <input type="checkbox"/> HPLC <input type="checkbox"/> TGA/DTA/DSC <input type="checkbox"/> NMR <input type="checkbox"/> Maintenance of Ultra Low Freezer <input type="checkbox"/> AFM
<p>Shri. Hipparagi S.Y. Technical Assistant</p>  <p>e-mail : hipparagi.hipparagi@gmail.com contact : 9845109480</p>	<p>Diploma in Electronics and Communication Engineering</p> <ul style="list-style-type: none"> <input type="checkbox"/> Certificate Course on Maintenance of Computer Networking WRIC Bombay. <input type="checkbox"/> M.Sc. (Information Technology) <input type="checkbox"/> M.A. (Sociology) 	<p>In charge of</p> <ul style="list-style-type: none"> <input type="checkbox"/> UV-VIS NIR Spectrophotometer

TABLE-2
Office staff

Name	Designation	
Shri. M. B. Koti  email:mahantesh.koti3@gmail.com Contact No.8147908081	Senior Assistant	Permanent
Shri. G.I. Pujar 	Mazdoor	Permanent

TABLE-3
List of Instrument

Sl. No	Name of Instruments	Model/Make	Year of Purchase	Program/ Funding Agencies
1	UV-VIS Spectrophotometer	Hitachi 3310, JAPAN	2006	KUD
2	HP Ge Solid State Photon Detector	GPX-10P, Ortec, USA	2002	KUD
3	Liquid Nitrogen Plant	Phillips PLN 106, Holland	1978	UGC
4	Atomic Absorption Spectrophotometer	GBC 932, Australia	2001	UGC-COSIST
5	Fluorescence Microscope	Axioscope 40, Carl Zeiss, Germany	2008	UGC-XI Plan
6	Milli-Q Water Purification System	Elix-10, Milli Q, India	2007	UGC-XI Plan
7	Gas Chromatograph- Mass Spectrometer	QP2010S, Shimadzu, Japan	2008	FIST II PHASE
8	TGA/DTA Analyzer DSC Analyzer	SDT Q 600 TA Instruments, USA Q 20 TA Instruments, USA	2009	UGC-XI Plan
9	Fluorescence Spectrophotometer	Hitachi 7000, Japan	2007	UGC-XI Plan
10	CHNS Determinator	TRUE SPEC, LECO, USA	2009	UGC-XI Plan
11	High Resolution Optical Microscope	AXIO IMAGER M2, Carl Zeiss, Germany	2011	DST's PURSE
12	Nd : YAG Pulsed Laser System	NANO-TRLG-650-10, Litron Lasers, UK	2011	DST's PURSE
13	Single Crystal X-Ray Diffractometer	Smart apex II, Bruker, Germany	2011	DST's PURSE
14	Genetic Analyzer	Applied Biosystems International 3500, USA	2011	DST's PURSE
15	UV-VIS NIR Spectrophotometer	Model V 670, Jasco International Co.Ltd.,	2013	DST's PURSE
16	Atomic Force Microscope	Nanosurf AG-easy Scan AFM, Switzerland	2013	DST's PURSE
17	Fluorescence Life-Time Measurement Spectrometer	ChronosBH, ISS, USA	2013	DST's PURSE
18	Spectroscopic Ellipsometer	JA Woollam-M 2000U, USA	2013	DST's PURSE
19	FT-RAMAN Spectrometer	NICOLET NXR, USA	2013	DST's PURSE
20	FT-IR Spectrometer	NICOLET 6700, USA	2013	DST's PURSE