



ಕರ್ನಾಟಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

KARNATAK UNIVERSITY DHARWAD

Accredited by NAAC with "A" Grade

ವಿಶ್ವವಿದ್ಯಾಲಯದ ವೈಜ್ಞಾನಿಕ ಉಪಕರಣಗಳ ಕೇಂದ್ರ (ಯುಸಿಕ್)

UNIVERSITY SCIENCE INSTRUMENTS CENTER (USIC)



Pavatenagar, Karnatak University, Dharwad-580003. India.

Tel: 0836-2215295/2771275 (Office), 0836-2215368 (Director)



DIRECTOR, USIC & HEAD, SAIF, KARNATAK UNIVERSITY, DHARWAD.

ABOUT THE CENTER: It is a multidisciplinary research and educational core facility started in 1976 with the initial support of UGC and is at level III as per UGC recommendation. It has multi-purpose cluster of sophisticated analytical and bioimaging instruments (Table 1) serving the community of PG students, research scholars and faculty of Science Departments of KUD and other academic Institutes/research labs/industries. These instruments cater to the needs of physical, chemical, biological and earth sciences; in addition other fields include nanoscience, polymer science, materials science, biotechnology, pharmaceutical, medical and agricultural sciences. The instruments are maintained by the qualified and dedicated technical staff (Table 2). Besides offering services, production and distribution of liquid nitrogen and Milli-Q water is also done.

PURSE AND SAIF PROGRAMMES: Recognizing the Karnatak University, Dharwad, as one among fourteen in the country for its performance in research, the Department of Science and Technology, New Delhi, sanctioned PURSE (Rs 9 Crores) Program 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, ten instruments have been procured in two installments, installed and dedicated to researchers. Second phase of the PURSE Program at Rs. 15 Crores was sanctioned by DST for continuing the program and for procuring state-of-the-art instrumental facilities and infrastructure.

Sophisticated Analytical Instruments Facility (SAIF) program (Rs 5.5 Crores) by the DST was sanctioned in 2014-15 to set up a SAIF Center at the Karnatak University. The SAIF program is implemented and procured sophisticated instruments namely 400 MHz FT-NMR Spectrometer, Powder X-ray Diffractometer & Scanning Electron Microscope with EDS and dedicated to researchers.

NOTE TO USERS: With the available Technical Staff and financial resources, our endeavor is to offer best service to users. Services for USIC facilities for outside KUD users are charged nominally. Both KUD as well as outside KUD users will be charged nominally to utilize SAIF facilities. All the users are directed to contact the office/staff for details. We offer no postal services nor concession in rates to the users.

Users are requested to contact the concerned Technical Staff to find out the status of the instrument and payment.

PAYMENT OF SERVICE CHARGES:

(i) **For USIC facilities:** Account holder : **DIRECTOR USIC**, SB A/c No. **11605235221**, SBI Bank ; Karnatak University Campus, Dharwad. (IFSC code: SBIN001728)

(ii) **For DST-SAIF facilities:** Account holder : **SAIF KUD**, USER CHARGES ACCOUNT: SB A/c No. **12062010023433**, Syndicate Bank; Karnatak University Campus, Dharwad. (IFSC code: SYNBO001206).

CITATION IS MANDATORY: All the users (research scholars, faculty or others) should **acknowledge** USIC/SAIF including instrument(s) used in their publication(s), dissertation, thesis or any other form. All the academicians, researchers, industrialists and other users are requested to make use of the facilities available at USIC and SAIF Center.

Wishing you the best of time at USIC and SAIF.

Prof. J. SEETHARAMAPPA

Director, USIC & Head, SAIF,

KARNATAK UNIVERSITY, DHARWAD-580 003.

Tel: 0836-2215295/2771275(Office), 0836-2215368 (Director)

Email: usicofficekud@rediffmail.com

TABLE-1
LIST OF INSTRUMENTS

Sl. No	Name of Instruments	Model/Make	Year of Purchase	Program/Funding Agencies
1.	Liquid Nitrogen Plant	Phillips PLN 106, Holland	1978	UGC
2.	Atomic Absorption spectrophotometer	GBC 932, Australia	2001	UGC- COSIST
3.	HP Ge Solid State Photon Detector	GPX-10P, Ortec, USA	2002	KUD
4.	UV-VIS Spectrophotometer	Hitachi 3310, JAPAN	2006	KUD
5.	Milli-Q Water Purification system	Elix-10, Milli Q, India	2007	UGC-XI Plan
6.	Fluorescence Spectrophotometer	Hitachi 7000, Japan	2007	UGC-XI Plan
7.	Fluorescence Microscope	Axioscope 40, Carl Zeiss, Germany	2008	UGC-XI Plan
8.	Gas Chromatograph- Mass Spectrometer (GCMS)	QP2010S, Shimadzu, Japan	2008	DST-FIST II PHASE
9.	TGA/DTA Analyzer	SDT Q600 TA Instruments, USA	2009	UGC-XI Plan
10.	DSC Analyzer	DSC Q20 TA Instruments, USA	2009	UGC-XI Plan
11.	CHNS Determinator	TRUE SPEC, LECO, USA	2009	UGC-XI Plan
12.	High Resolution Optical Microscope	AXIO IMAGER M2, Carl Zeiss, Germany	2011	DST PURSE
13.	Single Crystal X-ray Diffractometer	Smart apex-II, Bruker, Germany	2011	DST PURSE
14.	UV-VIS NIR Spectrophotometer	Model V 670, Jasco International Co. Ltd.,	2013	DST PURSE
15.	Atomic Force Microscope	Nanosurf AG-easy Scan AFM, Switzerland	2013	DST PURSE
16.	Fluorescence Life-Time Measurement Spectrometer	Chronos BH, ISS, USA	2013	DST PURSE
17.	Spectroscopic Ellipsometer	JA Woollam-M 2000U, USA	2013	DST PURSE
18.	FT-IR & FT-RAMAN Spectrometer	NICOLET NXR, USA	2013	DST PURSE

NOTE : Users are requested to contact the concerned Technical Staff to find out the status of the instrument and payment (Analysis Charges).

TABLE- 1a
ANALYSIS CHARGES

Sl. No.	Name of the Instrument	Rates for outsider and Academicians in Rupees		Rates for private industries in Rupees (INR)
		National Lab/ PSU	Students (Other than KUD)	
1.	FT-IR Spectrometer Nicolet, 5700	500/- per sample	150/- per sample	1000/- per sample
2.	UV-VIS Spectrophotometer Hitachi, U-3310	300/- per sample	100/- per sample	600/- per sample
3.	Atomic Absorption Spectrophotometer GBC 932 PLUS	300/- per element/sample	75/- per element/sample	600/- per element/sample
4.	Fluorescence Spectrophotometer Hitachi, F-7000	300/- per sample	75/- per sample	600/- per sample
5.	Fluorescence Microscope Carl Zeiss OR Carl Zeiss, Axio Imager M2	50/-exposure	50/- exposure	100/-exposure
6.	X - Ray Detector, Ortec, GMX-10p	1000/- per 6 hours	300/- per 6 hours	2000/- per 6 hours
7.	Gas Chromatograph Mass Spectrometer	1000/-sample	350/-sample	2000/-sample
8.	TGA/DTA TA Instruments SDT-Q600	1000/-sample	500/-sample	2000/-sample
	DSC TA Instruments Q-20	1400/-sample	700/-sample	2800/-sample
9.	Single Crystal X-ray diffractometer Bruker smart Apex –II	6000/- Data collection + 2000/- Refinement	3000/- Data collection + 2000/- Refinement	12000/- Data collection up to 8 hours+ 1000 additional hour + 3000/- Refinement
10.	Atomic Force Microscope	1500/- for 5 scans + 300/- for each additional scan	500/- for 5 scans + 100/- for each additional scan	3000/- for 5 scans + 600/- for each additional scan
11.	Ellipsometer	1000/- per sample	400/- per sample	2000/- per sample
12.	Fluorescence Life time	600/- per sample	200/- per sample	1200/- per sample

The details with regard to payment for USIC facilities are as follows: Account holder : **DIRECTOR USIC**, SB A/c No. **11605235221**, SBI Bank, Karnatak University Campus, Dharwad. (IFSC code: **SBIN0001728**)

TABLE-2
TECHNICAL STAFF AND THEIR RESPONSIBILITIES.








NAME & DESIGNATION	QUALIFICATION	INCHARGE OF INSTRUMENT
 <p>Shri. S. V. MYAGOTI INSTRUMENT ENGINEER e-mail: svmyagoti@gmail.com Contact No. 9886190990</p>	<p>Diploma in Mechanical Engineering.</p> <p>Certificate courses on</p> <ul style="list-style-type: none"> ➤ Refrigeration & Air Conditioning ➤ Optical shop practice ➤ Computer Hardware and Maintenance of networking. ➤ CAD, CAM Course at WRIC 	<ul style="list-style-type: none"> ➤ Liquid Nitrogen Plant ➤ AAS ➤ X-ray Detector ➤ Ellipsometer ➤ Single Crystal X-ray Diffractometer
 <p>Smt. C.R.BHARATI SENIOR TECHNICAL ASSISTANT e-mail: crbharati@kud.ac.in Contact No. 9886783458</p>	<p>B.E. in Electrical & Electronics Engineering</p> <ul style="list-style-type: none"> ➤ Post Graduate Diploma in Computer Application (PGDCA) ➤ Certificate Course on Maintenance of Computer Networking WRIC Bombay. 	<ul style="list-style-type: none"> ➤ Fluorescence Spectrophotometer ➤ UV-VIS Spectrophotometer ➤ Water Purifying System ➤ Fluorescence Life Time measurement ➤ GC-MS
 <p>Shri. G.D. KUNDARGI TECHNICIAN e-mail: gdkundargi@gmail.com Contact No. 8197042055</p>	<p>Diploma in Mechanical Engineering</p> <ul style="list-style-type: none"> ➤ Post Diploma in Foremanship ➤ Certificate course in Mechanical workshop practice, Cochin University, Cochin ➤ IDEAS / CAD /CAM/CNC Program at WRIC, Bombay 	<ul style="list-style-type: none"> ➤ TGA/DTA ➤ DSC ➤ AFM
 <p>Shri. HIPPARAGI S.Y. TECHNICAL ASSISTANT e-mail : siddaramyh@gmail.com Contact No : 9845109480</p>	<p>Diploma in Electronics and Communication Engineering</p> <ul style="list-style-type: none"> ➤ Certificate Course on Maintenance of Computer Networking, WRIC, Bombay. ➤ M.Sc. (IT) ➤ M.A. (Sociology) 	<ul style="list-style-type: none"> ➤ UV-VIS NIR Spectrophotometer ➤ FT-IR Spectrometer. ➤ FT-RAMAN Spectrometer ➤ Fluorescence Microscope ➤ High resolution Optical Microscope.

TABLE-2a

OFFICE STAFF

NAME	DESIGNATION	CONTACT
 <p>Shri. MAHANTESH B. KOTI</p>	SENIOR ASSISTANT	e-mail : mahantesh.koti3@gmail.com Contact : 8147908081
 <p>Shri. MANJUNATH N. MADAR</p>	PEON	e-mail : manjunathmadarkud@gmail.com contact : 7022850162
 <p>Shri. FAKKIRAPPA R. KURAGUND</p>	PEON (Contract Basis)	e-mail : fakirappakuragund43770@gmail.com contact : 6361619902