

UNIVERSITY SCIENCE AND INSTRUMENTATION CENTRE

Profile of the USIC :

This USIC was established in 1982 during the 5th plan period. At that time the status designated to this centre was level – I. This centre is a non-teaching department of this university. It takes care of the repairing and maintenance of laboratory instruments, fabrication and designing of faulty parts of various instruments used in school of studies and the laboratories of the colleges affiliated to this university

Facilities available : This centre has following facilities :

1. **Mechanical shop :** This shop is equipped with Lathe machine, Milling machine, Power Hacksaw, Drilling machine, Cutting machine, Press machine.
2. **Electrical / Electronics shop :** This shop has various measuring instruments such as Function generator, Oscilloscope, Dual trace power supply, Tong tester, Digital multimeter, Radart Q meter, Valve tube tester, Micro processor Kit, PH calibrator, LCR bridge
3. **Glass blowing / cutting shop :** This shop utilizes Air Compressor, Table glass blowing burner, Indane and Oxygen gas cylinder. All necessary facilities are available in this shop.
4. **Welding shop :** This shop has arc welding machine and Spot welding machine facilities.

Electrical and Electronics shop besides other maintenance work has fabricated various instruments and their parts. Some of them are fellows;

- A. Melting point apparatus M.Sc. were designed and fabricated for SOS in Chemical Sales and Marketing Management to be used by Research students Industrial chemistry, Jiwaji university Gwalior.
- B. Bread board with regulated power supply for Institute of Engineering, Jiwaji university, Gwalior.
- C. Switch boards for Institute Of Engineering , Jiwaji universitiy. Gwalior.
- D. Lamp load boards for Wattmeter practical for Institute of Engineering , Jiwaji Universitiy, Gwalior.
- E. Electrical furnace to be used in czcharalski method of cmstate growth.

The Mechanical shop has supplied various bushes in industries at nominal costs. The shop has fabricated various attachments used in different machines used for research purpose.

The centre also imparts workshop, training to the students of Institute of Engineering of this university. Technical support to the research students of various disciplines is also provided by USIC. Academic activities related to the training to the teachers and technical staff of the universities and colleges of Madhya Pradesh have also been taken by this centre in collaboration with WRIC, Mumbai. In the past this centre has been organizing course on refrigeration technology for the students and technicians. The technicians have successfully performed responsibility of maintaining the intercom facility of the university, in the past.

The centre alsoa taken up the job form Private industries and parties and charges nominal amount. Ths has made the centre in have some funds which may be used in the development of this centre.

Faculty / Staff : University Science Instrumentation centre has a team of trained experts in different fields.

Contact Person: Prof. A.K. Shrivastava, Head

A small Library is also being maintained by this centre to have the students excess for data of electronic components.

Electronics Shop
R.P.Mishra
Technician Electronic

Mechanical Shop
Shahid Khan *Lathe*
Mechanic

Glass blowing Shop
D.S.Vashistha
Glass Blower

Welding Shop
Nirmal S. Yadav
Helper