

SANT BABABHAG SINGH UNIVERSITY Recognised by the UGC New Delhi under the Section 2(f) of UGC Act, 1956 Recognised by the UGC New Delhi under the Section 2(f) of UGC Act, 1956



Facilities in CIF lab

Different scientific research instruments in CIF facility:

CIF lab is a core research hub at SBBSU, Jalandhar which provides access to sophisticated analytical instruments and supports faculty, students, Research Scholars and external researchers. The instruments in this lab includes shaker cum incubator, UV Transilluminator, PCR machine, high precision digital water bath, UV/VIS Spectrophotometer (optical system double beam), Elisa reader, Ultrasonic bath, Ultrasonic cleaner, Lyophilizer etc.

We have the following labs in central instrumentation facility:

1. SIMULATION LAB

- 1. In this lab, we have intelicore7 workstation with 8GB RAM workstation having 16 threads.
- 2. Workstation is equipped with MD simulation and DFT softwares like GROMACS, ORCA, AVOGADRO, Chimera and VMD etc.
- 3. In this lab research is being carried on drug lipid interaction and DFT study of Endohedral Fullerenes.

2. MOLECULAR BIOLOGY FACILITY

- In molecular biology facility, we have Thermocycler machine, Gel documentation unit, Elisa reader, Vortex, Centrifuge model, Ultrasonic cleaner, Shaker Incubator and UV/VIS spectrophotometer.
- 2. Presently work is being carried on genomic thrust area.
- In this lab, PG students are being trained for molecular biology techniques.
- 4. In future work will be carried on training of PHD research scholars and lab will be made more equipped with Hi-tech and advanced instrumentation.

3. HERBAL HONEY RESEARCH AND CONSULTANCY CENTRE

- . Honey is a miraculous product of nature, having various health benefits evidenced from traditional knowledge to scientific literature.
- 2. In the Sant Baba Bhag Singh University, HERBAL HONEY RESEARCH AND CONSULTANCY CENTRE was established for the processing, purification, filtration and physio-chemical evaluation of honey.
- The purified honey will be packed in containers of different size and will be marketed under the university brand name by the university marketing team at nominal cost.
- 4. Moreover, this Centre aims to focus on the concept of infusion process for the preparation of different herbal honey formulations and will be available under brand name of medicated honey.

- 5. Medicated honey could be used as supplement as well as for the treatment of diseases after the testing and evaluation.
- 6. In this centre UG, PG and Doctorate students will trained to start small to large scale unit of honey processing, purification and testing under the supervision of Dr. Younis Ahmad Hajam.

4. AOTT LAB

It is a well-equipped, modern facility dedicated to practical training in Anesthesia and operation theatre technology, fostering hands-on learning and clinical excellence.

AOTT lab highlights:

- Training on surgical instruments (major and minor procedures)
- 2. Hands-on monitoring: 12-lead ECG, vitals, invasive BP
- 3. Real-time clinical case discussions and simulations
- Focus on practical skills and operation theatre protocols