

Laboratories : Overview

1) Geography Lab:

- **RS & GIS Lab:** In the fifth semester of the Geography Honours program, the practical coursework in GIS includes hands-on topics such as an introduction to GIS, installation procedures, data extraction from “Google Earth” into “QGIS” (version 3.34.0), and inserting data into multiple layers. The goal of this study is to offer image-based guidance for beginners, enabling them to grasp the fundamental aspects of GIS tools and effectively utilize them for their benefit.
- **General Lab:** A general geography lab is equipped with a variety of surveying instruments, topographical maps, and collections of rocks and minerals. These tools are essential for studying landforms, conducting fieldwork, and understanding the physical properties of the Earth's surface, providing students with practical, hands-on experience in geographic analysis.
- **Soil Lab:** Our soil laboratory introduced purely for syllabus of 4th semester hons. as per BU CBCS system. The Lab is equipped with digital portable soil and water testing kits, digital pH meters, and other advanced tools. These instruments enable precise analysis of soil composition, moisture levels, and water quality, offering students practical experience in assessing and understanding soil health and environmental conditions.

2) Computer Science Lab:

The Computer Science Lab, established in 2017, features modern workstations, high-speed internet, and up-to-date software. It provides students with resources for programming, software development, and computational research. This lab supports practical learning, enabling students to engage in coding, data analysis, and various computer science projects in a cutting-edge environment.

3) **Physics Lab:**

The Physics Lab is equipped with a wide range of instruments and experimental setups, allowing students to explore fundamental principles of physics. From mechanics and optics to electromagnetism and thermodynamics, the lab provides hands-on experience in conducting experiments, reinforcing theoretical knowledge, and fostering a deep understanding of physical laws and phenomena.

4) **Physical Education Lab:**

The Physical Education Lab is equipped with fitness testing equipment, sports performance analysis tools, and body composition analyzers. It supports the study of human movement, exercise physiology, and sports science. Students gain practical experience in assessing physical fitness, understanding biomechanics, and applying scientific principles to improve athletic performance and health.



Signature of Principal



**Principal
Nirala Bhakat College
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