



ಕೃಷಿ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ, ಬೆಂಗಳೂರು

ಗಾಂಧಿ ಕೃಷಿ ವಿಜ್ಞಾನ ಕೇಂದ್ರ, ಬೆಂಗಳೂರು-560065, ಕರ್ನಾಟಕ, ಭಾರತ

UNIVERSITY OF AGRICULTURAL SCIENCES, BANGALORE

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INFORMATION

Criteria4 : Infrastructure and Learning Resources

Key Indicator : 4.3 IT Infrastructure

Metric : 4.3.1

Metric Description : Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Describe IT facilities including Wi-Fi with date and nature of updation, available internet bandwidth within a maximum of 500 words

At UAS, Bangalore, **College of Agriculture, GKVK**, has developed a comprehensive IT infrastructure to support its academic, research and extension activities. Managed by Agricultural Knowledge Management Unit (AKMU), the network infrastructure is built on 12 km fibre optic network, providing reliable and fast connectivity across campus to facilitate seamless collaboration among faculty, students and researchers. University has implemented a Unified Threat Management system (Sophos XG 430 appliances) for security, with packet filtering, malware protection, intrusion detection and prevention and application control, for safe environment for academic research and data exchange.

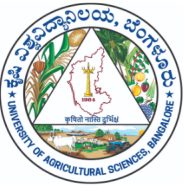
The LAN at GKVK campus connects all divisions, administrative blocks, hostels and student accommodations. Campus-wide Wi-Fi network, powered by D-link Big DAP-2660 and Aruba access points, provides reliable wireless internet across academic buildings and hostels. Major upgrades to the Wi-Fi infrastructure were made in 2022 and early 2024, particularly in undergraduate and postgraduate hostels, through the installation of TP-Link routers, D-link, and Aruba devices. The campus is connected to the 1 Gbps National Knowledge Network (NKN), offering high-speed internet for research collaborations, video conferencing, and digital resource sharing. Core switches, a Sophos firewall, and a Juniper M10i router ensure secure and efficient internet delivery throughout the campus.

University Examination Centre (UEC) has a dedicated IT infrastructure, including LAN connectivity and 20 Mbps internet access. The UEC has adopted digital evaluation methods using specialized software such as UGAM and PGAM for managing undergraduate and postgraduate processes, supported by Kodak scanners, Captchapro software for scanning and barcoding answer sheets and Verificar software for OMR sheet reading, enabling efficient exam processing.

College of Agricultural Engineering, GKVK has extensive LAN and Wi-Fi connectivity in all classrooms and offices, with a 120 Mbps bandwidth, supporting real-time distance education, video conferencing and smart classroom functionalities. Faculty members utilize platforms like E-notes to share presentations and notes for interactive learning experiences.

At the College of Agriculture, V.C. Farm, Mandya, a 50 Mbps BSNL leased line connects academic blocks, hostels, and the library via optical fibre, secured by a firewall. Enables access to resources like CeRA journals and supports PG students with plagiarism detection for thesis submissions. Similarly, the College of Agriculture, Hassan transitioned from an 8 Mbps BSNL connection (01.04.2019 - 31.03.2020) to a 50 Mbps Reliance Jio ILL (02.01.2021 - 31.03.2023), and later upgraded to 100 Mbps (01.04.2023), facilitating online classes, video streaming on Smart Boards, and practical sessions.

At the College of Sericulture, Chintamani, computers are widely used for assignments, presentations, and research. The Computer Science Laboratory supports courses like Computer Science and Agri Informatics and EEP Agricultural Journalism and Multimedia Production. Internet connectivity began with 20 Mbps (01.04.2019 - 31.03.2021), then upgraded to 60 Mbps (01.04.2021 - 31.03.2023), and further enhanced to 200 Mbps (01.04.2023). From 16.12.2023, speed increased to 300 Mbps, covering all departments, labs, and hostels. Lecture capturing enables recorded lectures to be uploaded to the IMPARTUS platform, while hostels are equipped with Wi-Fi and the library offers eight computers with seamless internet access across a 184 sq. ft. browsing area.



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