

Use of ICT-enabled tools including online resources for effective teaching and learning processes adopted in Govt. Holkar (Model, Autonomous) Science College, Indore

Life became more digital after the Covid-19 outbreak, and educational institutions were no exception. Everyone had to adjust to the fact that online courses and distant learning were no longer trends but rather realities. The teaching and learning process in the institution has been redefined and realigned with the current trend of increased usage of digital, web, and mobile-based technologies into the blended mode in light of recent advancements in ICT in order to make it easier to implement the curriculum delivery process that supports and encourage innovative teaching and learning modalities. HSC has taken care of the **integration of ICT in education to promote integrated student-centric learning, higher-order thinking, problem-solving, and cooperative-collaborative-social (CCS) learning.**

The institute maintains a **high-speed wi-fi** enabled campus and is continuously working on augmenting digital educational infrastructure as an effective tool for acquiring information from multiple sources and disseminating them to students to enhance their knowledge database. All the classes, laboratories, Seminar Halls, Yashwant Hall, Conference Room, etc. are **well equipped with ICT facilities, and faculties are well trained for using ICT tools** and resources available on its campus.

The institute has 44 **Interactive Flat Panel Display (IFPD) smart boards** based on the latest technology and has an excellent facility for interactive smart class. **Computers, Printers, scanners, photocopiers, LCD projectors, and visualizers** are present in sufficient numbers to augment the teaching-learning process.

HSC has developed an indigenous **Learning Management System (LMS)** and with its efficient content management students can have **'any-time any-where access**. LMS is customized with **user management** and **course management** and allows various integrations with student information systems, notifications, and certification protocols. This provides a **safe virtual learning** environment for the student.

In addition to LMS, subscription to **Google Workspace (G Suite), cloud computing services**, etc. provides great support to ICT-enabled curriculum delivery.

Customized emails of all the staff members and students have been created and day-to-day communication and conduction of online classes using **Google Meet** and **Google Classroom** are used to share e-resources through these platforms.

Faculties most often use ICTs for **'routine tasks'** like lesson plan development, information presentation, and sharing Powerpoint presentations.

During the COVID-19 pandemic lectures, webinars, and Faculty/Staff Development Programmes were conducted through **online mode** on **Google Meet, Zoom, and Microsoft Teams** and after the pandemic is still being continued in **blended or hybrid mode**.

Apart from this, **Social media study groups** are also used for the distribution of study material, links to youtube videos as well as academic discussions with the students.

As a nodal center of **Virtual Labs** which is an Initiative of MoE under the NMEICT.

Language lab also exists for facilitating teaching and learning in Eng

Online collaborative ICT tools like **Google Forms, Vote, and Kahoot** to create quizzes, surveys, and **Google Docs, Sheets & Slides** are promoted for collaborative learning. Use of **Open access software** such as Mind Map, is also used by some of the faculties. Faculties regularly use and promote the usage of **e-library** through NLIST-INFLIBNET, Shodhganga, Shodhsindhu, and e-Granthalay.

Students and faculties are encouraged to participate in **MOOCs**. The institution has a local chapter of NPTEL. Teachers promote the use of ICT resources available in the **National Digital Library** and **Repositories** such as e-PG Pathshala, e-GyanKosh, NMEICT, and Swayamprabha Channel.

Faculties have been engaged in **developing e-content** for the DHE, GoM.P., which is accessible to all the institution students of Madhya Pradesh. Career counseling e-content by faculty is also available.
