



BEST PRACTICE
MULTI-DIMENSIONAL USE OF
IT/ICT

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TECH-KRG: MULTI-DIMENSIONAL USE OF IT/ICT

OBJECTIVES OF THE PRACTICE:

- To promote the Skill of learning and improve learning resources by use of IT/ICT tools such as multimedia, digital library, internet tools, world wide web and hypertext/hyper media.
- To support the process of learning to accelerate the teaching and learning efficiency.
- To motivate students and faculty members towards innovative learning to enrich the process of teaching-learning Instruments. To provide flexibility and variety in teaching-learning.

- To provide strong and dedicated internet facility to enable large number of computers with international and national tele-communication networks.
- To develop digital library for safe storage and multiple access of e-material and information. Creating an environment of e-governance to reduce the use of paper in governance.

3. The Context

The College, in its mission statement emphasizes the need to empower young women through holistic education integrated with traditional knowledge in teaching-learning to achieve academic and all-round excellence infused with skills for self-sustainability. To accomplish this, the college understands the

need to set up an environment for state-of-the-art teaching-learning and e-governance through the IT Cell which initiated TECH-KRGC to address this issue. There are some limits to the traditional style of teaching using the chalk-talk-walk (lectures and books) technique, such as board management, tidy diagrams, and handwriting abilities. ICTs may now offer competency and performance-based curricula that effectively utilise the advantages of these technologies with the help of IT/ICT tools viz. Computers, Multimedia, Internet, Smart Class, Smart Phone, e-books, Lectures etc. It all requires the participation of faculty members in the preparation of online teaching resources, multimedia presentations and creation of online video lectures. Students get benefit from the teachers'

creation of meaningful learning opportunities. In this college the concept of digital library, where the students, teachers and educators can access research and course material from around the globe instantly, it is possible due to ICT based digital resources. Also sharing of knowledge is possible now due to networking of academics and students for sharing scholarly materials and innovative ideas. The digital documentation also avoids duplication of work and overcomes plagiarism. The implementation of ICT in education develops higher order skills used to prepare the work force for the well informed, skillful society and enhance the global economy. The success of using ICT in teaching-learning depends on the proper use of IT in office work. It can be

possible to use ICT widely in classes only if the staff is aware of IT/ICT.

4. The Practice

TECH-KRGC provides opportunity to develop both IT and ICT infrastructure in the campus and prepare students and staff to use this practice in wide scale to transform this institution into fully TECH-KRGC.

IT/ICT infrastructure :

1. Every department is equipped with desktop/laptop and reprographic facility.

2.The college has improved IT infrastructure by acquiring advanced computer system and new software and the process of upgradation continues.

3.Multimedia teaching aids like LCD Projectors, e-Projector screen, smart boards, laptop, notebook, highlighter are employed in Department and classrooms.

4.More than 25 Smart class rooms including 02 Smart panels with LCS have been installed. 5.Conference hall and Seminar Hall are also equipped with IT/ICT facility.

6.e-Library, Kiosk, Reprographic facility and digital form of thesis and other documents are maintained in the Central Library.

7.The facility of Multimedia lab and online editing software are available. Digital studio for development of e-content and virtual class is under construction.

8.The college has 12 broadband connections with Wi-Fi facility, SWAN connection and LAN facility. The facility of lease line is under process.

9.Software such as Soul 3.0, Tally, PFMS, IFMS, Office 2019, Graphics, QR code, Bar Code, MS teams, KRGC-MIS, KRGC-LMS, KRGC Application, etc. are available in the college.

10.The college has its own Facebook pages, YouTube channel, WhatsApp groups, Telegram groups.

11.CCTV cameras for surveillance, Biometric machines for attendance, Smart phones and Intercom facility for quick communication are made available.

Use of ICT for Teaching-Learning :

The faculty members of the college use information and communications technology (ICT) enabled teaching strategies in the classroom as a supplementary tool to traditional teaching techniques.

For effective teaching and learning, ICT tools are used by all the departments to conduct Seminars, Workshops, Guest lectures, invited talks, webinars and training programs on current development in the perspective of NEP.

KRGC-LMS : The academic plans, syllabus, notes of lessons, study material and question banks are made available on this platform.

Smart class rooms and ICT enabled Seminar halls are used for special/guest/invited lecture in addition to regular lectures and for conduction of seminars/webinars/ workshops.

The Central Library has electronic resource packages like E-Library, National Digital library, 8600 e-books, 34000 journals, e-thesis, e-Granthalaya, Shodh-Ganga, Shodh-Sindhu, N-List and DELNET for faculty members to effectively utilize it and to demonstrate the concepts to the students using OPAC – Kiosk to enhance the learning experience.

Various social media platforms and Blogs are used by students and faculty members for knowledge sharing.

KRGC e-Newsletter Pravaah and KRGC News Channel

Saraswati are provided space for information related to the college and other HEIs.

Facilities for e-Governance :

The college provides certain online facilities, which are as follows :

Facilities of Access to online admission portal and scholarship portals, online fees submission, online submission of examination form, online publication of examination results, online admission of short-term courses and PhD programmes are available.

Dynamic, interactive and updated college website

(www.krgcgwalior.org)

KRGC-MIS : Operations of all academics, examination and finance related functions, storage of all digital record of academic and non-academic departments are managed by Management Information System (MIS). Payment Gateway is also available.

Use of social media, website, Digital Display Board, Bulk SMS and e-mail for providing information to the stakeholders

All academic and non-academic departments have developed their e-mail ids which are used for sharing notices information and other official documents.

Digitalization of the student data and office record for last five years is in progress. Digital ID card with bio- data of the employees and students is in process. Provided computer awareness and literacy for student, faculty, and class III and IV employees.

IT/ICT enabled Conference/meeting hall and Seminar Hall are used for webinars, important online meetings and training programs conducted by Deptt. Of higher education or any other government agency.

5. Evidence of Success : The use of ICTs in education and their integration has a good effect on teaching, learning, and research. Also, it fosters flexibility, offers a stimulating atmosphere for the teaching-learning process, and increases

opportunities for both students and teachers. These factors have a significant impact on the learning process. The performance and achievement of students may be affected by these possibilities.

IT/ICT worked as a change agent in this institution. Decisions must be made swiftly and effectively given the growth in e-learning and e-governance. This has increased the scope of administration and made necessary to the adoption of new strategies for institutional administration. The following are the evidences of success and various advantages of use of IT/ICT under the scheme of TECH-KRGC.

Student support :

Students have become computer friendly through awareness programs on computer applications.

Use of social media has given students a platform to express their emotions, ideas, and worries as they navigate the college experience. Social media made it easier for students to participate in extracurricular activities like clubs and associations, enhancing their overall educational experience.

Student help center, Student help line and other online support system gave a hand to the students.

Through the availability of IT/ICT facility the learner could search website, collect information and learn the lesson. Web based learning allowed them greater autonomy of learning.

Teaching-Learning :

By using IT/ ICT, college has been able to meet the challenges during COVID- 19 period to conduct online classes, provided online study material, e-books, e-Journals, Video lectures, and remedial classes for students. Design and development of e-learning resources.

Online students' group, Online lecturing, Online counselling, Online libraries, Online resource centers are key features of use of ICT.

Central library of the college emerged as an enriched resource center for students and faculty member.

e-Governance :

Operation of financial management is successfully done and financial data synchronized with other functions such as

human resources, and data relating to research grants, budget management, and staff performance.

ICT has given opportunities for procuring e-learning resources.

Minimum use of paper, reduced workload, transparency in procedure, reduced cost in service delivery and fast communication etc. can be seen as evidence of success.

Administrative staff showing better and enhanced performance because it is monitored with the help of IT/ICT.

Integrated administrative tasks including document preservation, database updating, communication support, document submission online, and approval notification.

6. Problems Encountered and Resources Required Some obstacles against the smooth functioning of this practice are as follows :

Non- availability of smart phones and smart gadgets among rural students who are in large numbers in our institution.

Lack of Technical Awareness causes a low confidence level to use online system.

Lack of creative skills for content designing makes the learning boring.

Faith on teacher-centric methodology.

Since the information systems of KRGC are publicly available, it was necessary to safeguard them from various information

security threats, such as hacking, by implementing firewalls and anti-virus software.

Language barrier as most of the content available is in English.

ICT Tools' unsuitability to the students with disabilities is an alarming concern.

Lack of proper training programs for teachers and students.

Insufficient funds for IT/ICT equipment and software.

The following STRATEGY has been adopted by college to overcome the obstacles:

The college has conducted more awareness program for computer applications.

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