



GURU NANAK KHALSA COLLEGE FOR WOMEN
Model Town, Ludhiana

SUPPORTING DOCUMENT

2.3.2 ICT enabled tools for effective teaching-learning process

Dr. MANEETA KAHLON
Principal
G.N.Kh. College for Women
Gujarkhan Campus, Model Town,
Ludhiana.

Guru Nanak Khalsa College for Women, Model Town, Ludhiana

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Additional Information

2.3.2 ICT enabled tools for effective teaching-learning process

At GNKCW, teachers leverage ICT (Information and Communication Technology) tools to elevate and streamline the teaching-learning process. These tools span a broad spectrum of digital resources and technologies, encompassing not only traditional devices like computers and tablets but also cutting-edge tools such as interactive whiteboards, educational software, online platforms, and a wealth of internet-based resources. The incorporation of ICT into teaching practices is a deliberate effort to cultivate a more engaging and interactive learning milieu.

Teachers go beyond conventional methods, utilizing multimedia presentations, videos, and interactive simulations to deliver complex concepts with visual finesse. This multifaceted approach is designed to cater to diverse learning styles and abilities, capturing students' attention and fostering deeper understanding and retention of information. Moreover, the integration of ICT tools facilitates access to an extensive array of online educational resources, ranging from e-books and articles to research papers and specialized educational websites. This empowerment allows educators to continually enrich their teaching materials, ensuring content relevance and the infusion of real-world examples into lessons.

The use of ICT enabled tools allows teachers to create dynamic, learner-centered environments that fuel creativity, critical thinking, and holistic knowledge acquisition. This forward-thinking approach is a strategic preparation for the demands of the digital age, ensuring that our students are not just consumers but active participants and contributors in the ever-evolving landscape of information and technology.

To enhance the Institutional and Personal Branding of teachers, a **3-Day online course on Digital Marketing was organized by the college in association with Mahatma Gandhi National Council of Rural Education (MGNCRE), Ministry of Education, Government of India from January 23-25, 2023.**

In alignment with the National Education Policy, the college organized a **workshop for teachers on the theme, Role of Artificial Intelligence in Education** with special reference to pedagogical value of AI tools like ChatGPT, Bing. The workshop organized on May 11, 2023, aimed to equip educators with the knowledge and tools to leverage the power of AI in enhancing the learning experience for students.

In addition, teachers and students are encouraged to take benefit from the OER repositories as well as enroll in MOOCs offered on SWAYAM/ NPTEL platforms. The details of MOOCs completed by teachers is presented in the next section.

List of MOOCs completed by teachers during the session 2022-2023:

S.No.	Name of the Teacher	Department	Title of the MOOC
1	Ms. Harpreet Kaur	Fine Arts	Completed by 12-week MOOC from NPTEL on 'Indian Art: Materials, Techniques and Artistic Practices' from July- October, 2022
2	Ms. Gagneet Pal Kaur	English	Completed 12-week MOOC from NPTEL on 'The Popular Gothic Novel' from July- October, 2022
3	Lt. Sukhjit Kaur	Political Science	Completed 12-week FDP on 'Introduction to western political Thought' organized by NPTEL-AICTE from July- October, 2022
4	Dr. Shikha Bajaj	Fashion Designing	Topped in 4-week MOOC from NPTEL on 'Gender justice and Workplace Security' from August-September, 2022
5	Ms. Daisy Wadhwa	Computer Science and Applications	Topped in 12-week NPTEL MOOC on 'Privacy and Security in Online Social Media' conducted by IIIT, Hyderabad from January- April, 2023

Amidst the pandemic, [Ms. Daisy Wadhwa](#) and [Mrs. Satwant Kaur](#) initiated their own YouTube channels to create content aligned with the curriculum. They've incorporated these video resources into a flipped classroom methodology, redirecting classroom interaction time toward engaging in higher-order critical thinking activities.

S.No.	Name of the Teacher	Department	Link to YouTube Channel
1	Daisy Wadhwa	Computer Science and Applications	https://www.youtube.com/@daisywadhwa1620
2	Satwant Kaur	Computer Science and Applications	https://www.youtube.com/@satwantkaur4120

The following ICT Tools and e-Resources are used by faculty to aid the teaching-learning process.

S.No.	ICT Tool/ Resource	Type of Tool
1	Smartboards	Hardware
2	Projectors	Hardware
3	Printers and Scanners	Hardware
4	Visualizers	Hardware
5	Digital Tablets	Hardware
6	Multimedia Computer System	Hardware
7	MS PowerPoint, Google Slides	Presentation Software
8	MS Word, Google Docs	Word Processing Software
9	MS Excel, Google Sheets	Spreadsheet Software
10	Gmail, Yahoo mail etc.	Communication Software
11	WhatsApp	Communication Software
12	YouTube	Video Aggregation System
13	Google Drive	Cloud-based Data Storage and Sharing System
14	Google Forms	Data Collection and Assessment Tool
15	Adobe Photoshop	Designing Software
16	Google Meet, Zoom, Jitsi Meet etc.	Online Video Conferencing Software
17	Edpuzzle, H5P etc.	Interactive Learning Tools
18	Edmodo	Assessment Tools
19	Mentimeter, Kahoot, Quizziz, etc.	Game-based Assessment Tools
20	Google Classroom	Learning Management System
21	Screen-casto-matic, Screen-Castify	Screen recording System for video creation
22	Canva	Graphic Design and Editing Software
23	Slack	Communication and Learning Platform
24	Openshot, Renderforest, Powtoon	Video Creation/Editing Tool
25	Audacity	Audio Editing Tool
26	Padlet, Jamboard etc	Collaboration, Brainstorming tool
27	Open Broadcast Studio	Screen recording and LIVE streaming Tool
28	Overleaf LaTeX	Scientific and Technical Documents creation Tool
29	Zotero, Mendeley	Reference Management Tool
30	Google Groups	Online Discussion Forum
31	Lucidchart, Mindmeister	Mind Map creation tools
32	Wordpress, Google Sites	Website creation and blogging tools
33	Soundcloud	Podcast/ Audio sharing tool
34	Simplified AI	Artificial Intelligence enabled Presentation maker
35	ChatGPT, Bing, Google Bard	AI-powered LLMs as pedagogical tools
36	Grammarly, Quillbot	Writing Assistance Tools
37	Elicit, Litmaps, Connected Papers	Research Assistance Tools

S.No.	E-Resources Used
1	E-journals
2	E-books
3	Educational Websites
4	SWAYAM/ NPTEL Course material
5	Educational Content available on websites
6	Internet Archives
7	YouTube Educational Videos
8	ePathshala Resources
9	National Digital Library of India
10	Shodh Ganga
11	Content available under Creative Commons License
12	Broadcast through Swayam Prabha Channels
13	OER Commons Library
14	MIT Open Courseware
15	Unsplash, Pixabay- Free Imaging Libraries
16	DOAJ- Directory of Open Access Journals
17	DOAB- Directory of Open Access Books
18	Open Textbook Library
19	TED Ed videos
20	MERLOT free educational resources
21	Virtual Labs under the aegis of National Mission on Education through Information and Communication Technology (NMEICT)
22	Spoken Tutorials- Open Source Audio-Video Tutorials