SNDT Women's University

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NAAC – SSR
CRITERION II
SUPPORTING DOCUMENTS
for

2.3.2 Use of ICT in Teaching - Learning

SNDT
Women's University

Estb:1916

ICT Integration at the University

SNDT Women's University, Mumbai

ICT Integration in Teaching-Learning-Assessment at the University

online coding environment

powerpoint presentation

google drawing

google spreadsheet

tinkercad

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miro

jam board

quizlet

google doc

canva

x mind

testmoz

padlet

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google site

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concept board

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mindomo

h5p

pixton

plickers

google snetchup

ICT Integration in Teaching-Learning-Assessment at the University

In the digital age, the use of Information and Communication Technology (ICT) tools and online resources have become an integral part of the teaching and learning process in educational institutions. SNDT Women's University, known for its commitment to women's education, is at the forefront at utilizing these technologies to enhance the educational experience for its faculty and students.

The use of ICT tools and online resources in teaching and learning has revolutionized traditional methods of education, providing new opportunities for engagement, collaboration, and access to information. The faculty members of SNDT Women's University recognize the potential of these tools and resources in enriching the learning experience and preparing students for the digital world. Through their expertise and creativity, faculty members at SNDT Women's University have incorporated various ICT tools and online resources into their pedagogical practices, transforming the way knowledge is imparted and acquired.

Our University has its own Moodle Learning Management System for effective integration of ICT tools in pedagogy. In this document, we have highlighted some of the key ICT tools and online resources used by the faculty & students at SNDT Women's University, including but not limited to learning management systems (LMSs), online discussion forums, multimedia content, educational websites, online assessments, and communication tools.

The integration of ICT by faculty members at SNDT Women's University has transformed traditional teaching and learning practices, providing students with opportunities for personalized learning, increased engagement, and access to up-to-date information. The faculty members at SNDT Women's University effectively utilize various ICT tools in their teaching and learning process, promoting active student participation, facilitating communication and collaboration, and enhancing the overall educational experience for students.

Learning Management System (LMS)

A Learning Management System (LMS) is a platform designed to manage, deliver, and track educational content and resources. An LMS can be a powerful tool for interactive learning, allowing educators to create engaging and personalized learning experiences for their students.

MOODLE:
University faculty use SNDTWU-Moodle LMS for interactive teaching-learning practices. Moodle is also used as a tool for Flipped and Blended learning. Department of Educational Technology started using Moodle LMS in 2007.

Prof. Jayashree Shinde and Dr. Madhavi Dharankar as well as visiting faculty from the Department of Educational Technology (DET), Dr. Jyoti Bhabal from SHPT Library Science, Ms. Rajni Nair, Dr. Jyothi Sequeira, Ms. Sharmila, Dr. Shitole alongwith 7-8 teachers of Usha Mittal Institute of Technology (UMIT); Dr. Nitin Wani, Dr. Geetha T., Dr. Saroj Datar from JDBIMS, Dr. Rekha Chavhan from the Department of Education, Dr. Mahesh Koltame and Dr. Ganesh Chavan from Colleges of Education and about 8-10 other University teachers from different departments and colleges use SNDTWU-Moodle as a platform for online learning.
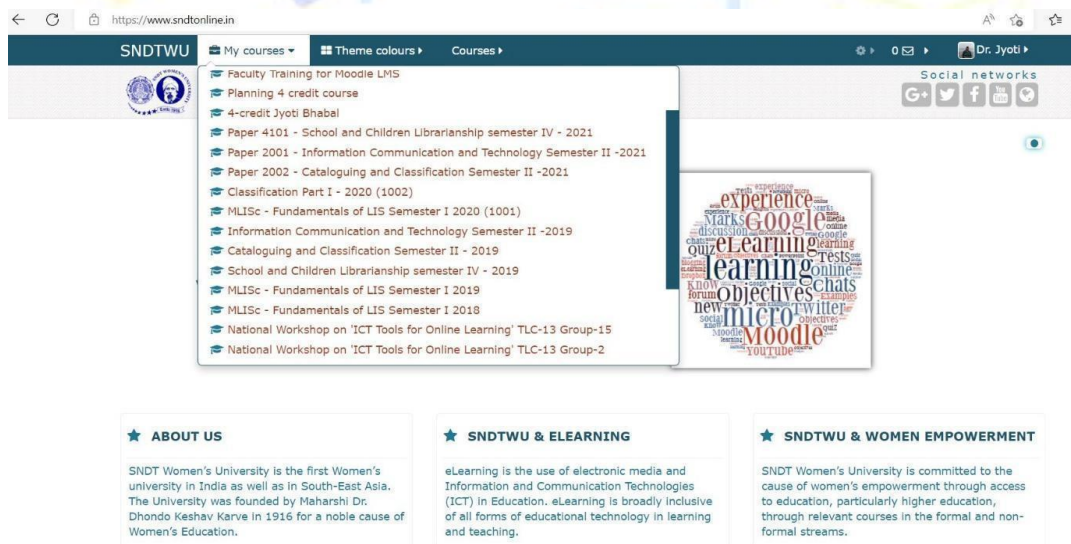

SNDT Women's University (sndtonline.in)

Edmodo:
Four of our University faculty members, Prof. Pratima Tatke from CU Shah College of Pharmacy, Mr. Bharat Patil from Usha Mittal Institute of Technology, Dr. Shobha Doulat Gaikwad from LT College of Nursing, and Prof. Jayashree Shinde from the Department of Educational Technology, Juhu, Mumbai used Edmodo LMS for interactive asynchronous content delivery and as a tool for Flipped and Blended learning. Unfortunately, Edmodo does not exist today.

Canvas:

Three University faculty members, Dr. Rekha Chavhan from the Department of Education, Dr. Madhavi Dharankar from the Department of Educational Technology, Juhu, Mumbai, and Prof. (Dr.) Pradnya Wakpainjan from the Department of Education, Mumbai, use Canvas LMS for interactive asynchronous content delivery and as a tool for Flipped and Blended learning.
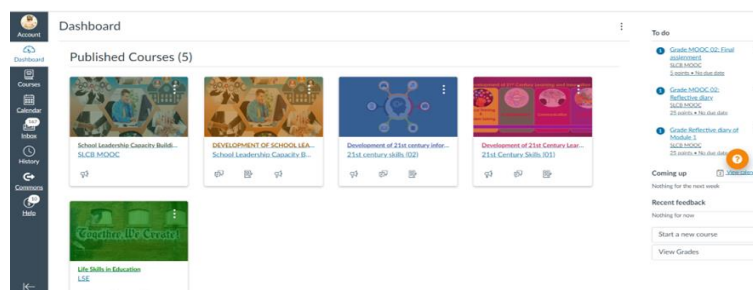

Use of Canvas LMS by faculty

Google Classroom:

More than 75 University faculty members, from various departments, use Google Classroom for asynchronous educational content delivery and use it as a tool for assignment collection and grading.
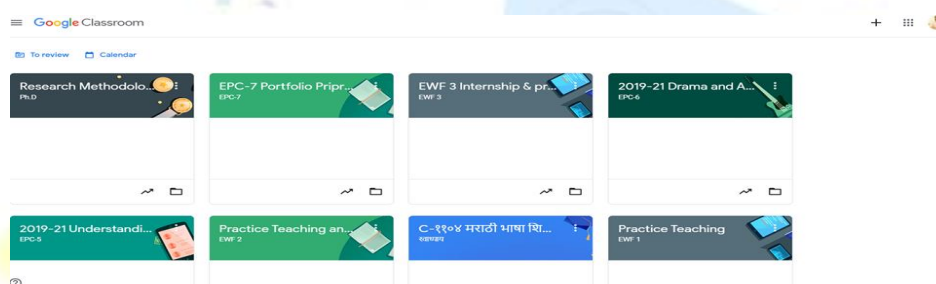
Online tools for synchronous Teaching-Learning

As per recent Survey of the University faculty, during COVID-19, 150+ faculty members used G-Meet, 130 used Zoom, 40 used Webex and 30 used Microsoft Teams as a tool for online synchronous Teaching-Learning.
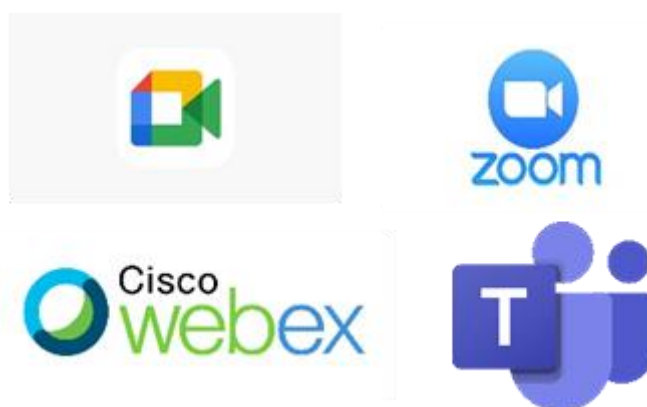
Online Collaborative & Interactive Tools

Google Docs:

Google Docs is a powerful and versatile tool used by faculty and students to enhance the teaching and learning process. By incorporating Google Docs into teaching, faculty members provide students with a more engaging and interactive learning experience.

Almost all our University teachers use Google Docs as a tool for collaborative learning. Students of Dept of ET use Google Docs for most of their collaborative work and for using Praise-Question-Polish strategy.


Use of Google Docs by DET students for Peer Review (P-Q-P)

Google Slides:

Google Slides is a powerful tool that can be used for interactive and collaborative learning. It is a cloud-based presentation software that allows users to create, edit, and collaborate on presentations in real time.

Almost all our University teachers use Google Slides as a tool for collaborative learning and presentations.
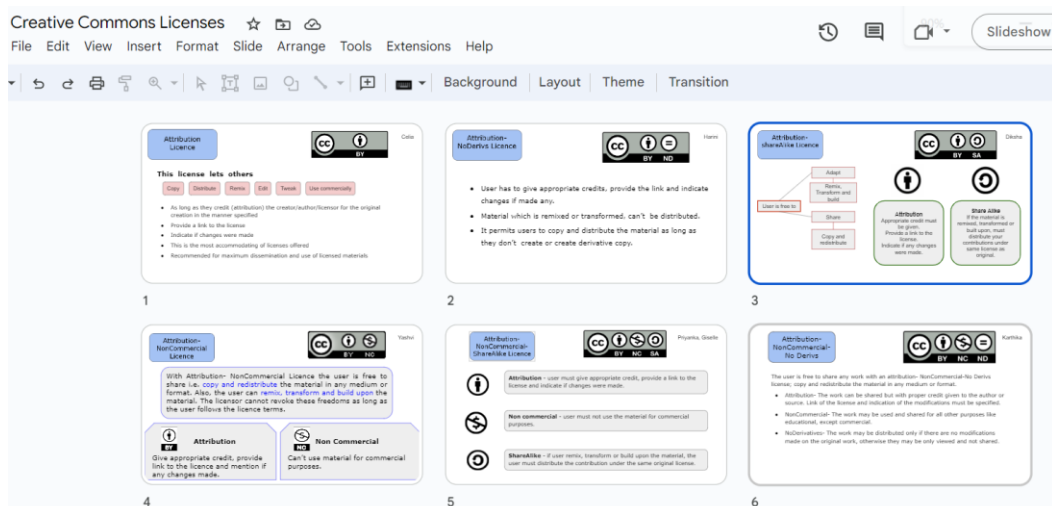
DET Students' collaborative presentation using Google slides

Google Sheets:

Google Sheets is a versatile tool that can be used to enhance the teaching and learning process in a variety of ways. By incorporating Google Sheets into the teaching-learning process, faculty members provide students with a more engaging and interactive learning experience. Almost all our University teachers use Google Sheets as a tool for collaborative learning.

Use of Google sheet by faculty

Google Forms:

Google Forms is a popular tool for creating online surveys, quizzes, and assessments, and it can also be used as a collaborative learning tool in the University classroom. It is a versatile tool that can be used to promote collaborative learning in the University classroom. By incorporating Google Forms into the teaching-learning process, University faculty members provide students with a more engaging and interactive learning experience.

Most of our University teachers use Google Forms as a tool for interactive learning and assessment.

Use of Google form by faculty

Jamboard:

Jamboard is an interactive tool that can be used in the teaching and learning process. It is a digital whiteboard that allows users to collaborate in real time, making it ideal for remote and hybrid learning environments. By incorporating Jamboard we can provide students with a more engaging and interactive learning experience.

University faculty, Prof. Jayashree Shinde and Dr Madhavi Dharankar from the Department of Educational Technology, Dr Tanmay Joshi from CU Shah College of Pharmacy, Dr. Devita Nalawade & Dr Kirti Jamdar from LT College of Nursing, Dr Rekha Chavhan the Department of Education and thirty-four other University teachers from different departments and colleges use Jamboard as a tool of collaborative learning.
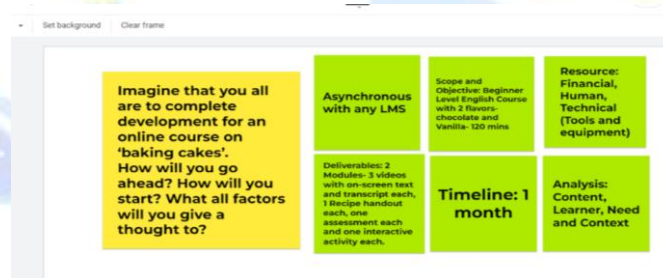
Use of Jamboard by faculty

Padlet:

Padlet is an interactive tool that can be used for collaborative learning without the need for steps. It is an online bulletin board that allows users to share ideas, collaborate on projects, and organize content. Padlet can be used in a variety of ways to enhance the teaching and learning process.

University faculty, Dr. Apoorva Panshikar from the Department of Special Education, Dr Jyoti Bhabal from SHPT Library Science, Dr Sachin Deore from the Department of Geography and sixteen other University teachers from different departments and colleges use Padlet as a tool of collaborative learning.

SHPT Library Science students reflected through Padlet

Resources, activity, assessment and feedback thr' padlet at DET

Mentimeter:

Mentimeter is an interactive presentation tool that allows teachers and presenters to engage their audience and gather feedback in real time. It is a useful tool for interactive learning that can help to engage students, provide real-time feedback, and encourage collaboration. Its user-friendly interface and customization options make it a versatile tool for teachers and students alike.

University faculties Dr. Jayashree Shinde from the Department of Educational Technology, Dr. Hetal Waghela & Dr. Yukti Gupta from the Department of Special Education use Mentimeter as a tool for collaborative learning.

Sample work of faculty using Mentimeter

Miro:

Miro is an interactive tool that can be used for teaching and learning. It is a collaborative online whiteboard platform that allows users to create, collaborate, and communicate in real time. Miro is a versatile tool that can be used for various learning activities. It allows teachers and students to collaborate, communicate, and create in real time, making it a great tool for interactive and engaging learning experiences.

University faculty, Dr. Pradnya Wakpainjan & Dr. Rekha Chavhan from the Department of Education, Dr Sachin Deore from the Department of Geography, Dr Jayashree Shinde from the Department of Educational Technology, Dr. Aakansha Wagh from LT College of Nursing Dr Sarika Sawant from SHPT Library Science Dr. Bhaskar Igave from the Department of Lifelong Learning and Extension use Miro as a tool of collaborative learning.
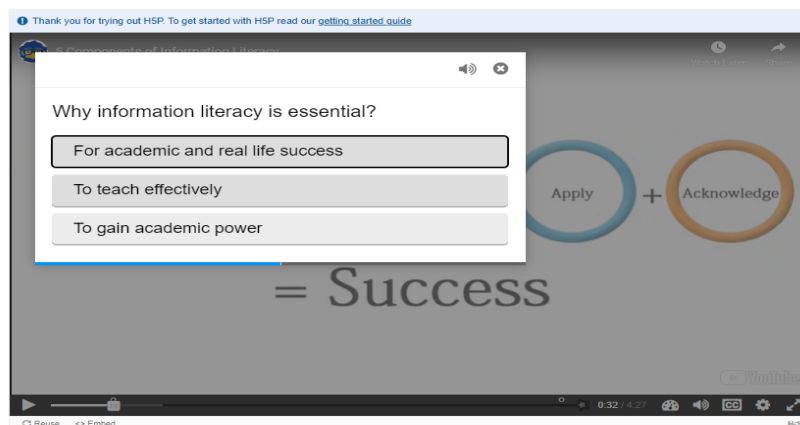

Sample work of Miro

H5P:

H5P is a free and open-source interactive content authoring tool that allows users to create and share interactive content for eLearning and online education. It is a web-based tool that provides a wide range of interactive content types, including interactive videos, presentations, quizzes, games, and simulations.

University faculty, Dr. Meherjyoti Sangale from the Department of History, Dr. Rekha Chavhan from the Department of Education, Prof. Jayashree Shinde from the Department of Educational Technology use H5P as a tool for building interaction.

Sample work of faculty using h5p

Concept Board:

Concept Board is an interactive tool that can be used for learning in a variety of contexts. It is an online whiteboard that allows users to collaborate on projects, share ideas, and organize content. Concept boards can be used in several ways to enhance the teaching and learning process.

More than twenty University teachers from different departments and colleges use the Concept board as a tool for collaborative and interactive learning.

Sample work of faculty creating a concept board

Concept-acquisition of ADDIE model by DET students through Exploration at DET

Canva:

Canva is an interactive tool that can be used for learning in various ways. It is a graphic design platform that allows users to create a wide range of visual content, such as presentations, infographics, posters, and social media graphics. Canva can be used in several ways to enhance the teaching and learning process.

Students of Department of Educational Technology, Computer Science, UMIT, etc. and University faculty such as Ms. Surabhi Kulkarni & Ms. Mamta Patil from PV Polytechnic, Dr Shobha Gaikwad from LT College of Nursing, Dr Vatasla Shukla from Research Centre for Women Studies alongwith 40 others use Canva.

Students' use of Canva for collaborative exploration of OER portals and formats
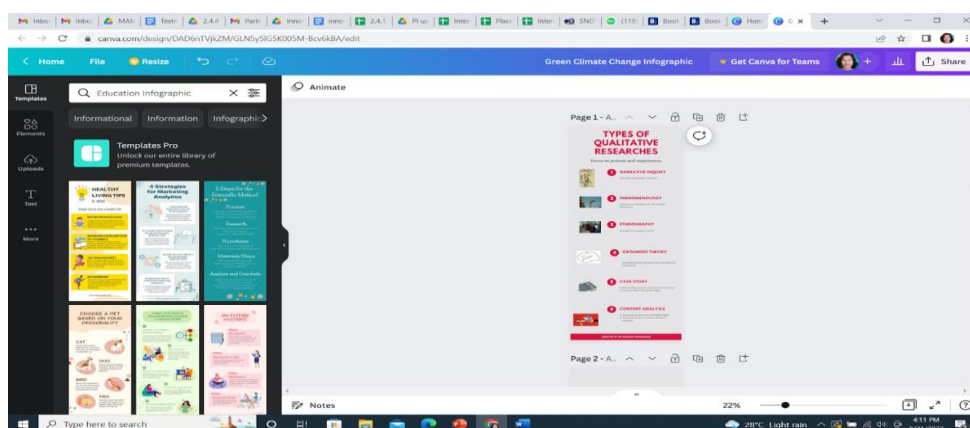
Use of Canva by faculty

Quizlet:

Quizlet is an online learning platform that allows users to create and study flashcards, quizzes, and other study materials. It can be used in a variety of ways to enhance the teaching and learning process.
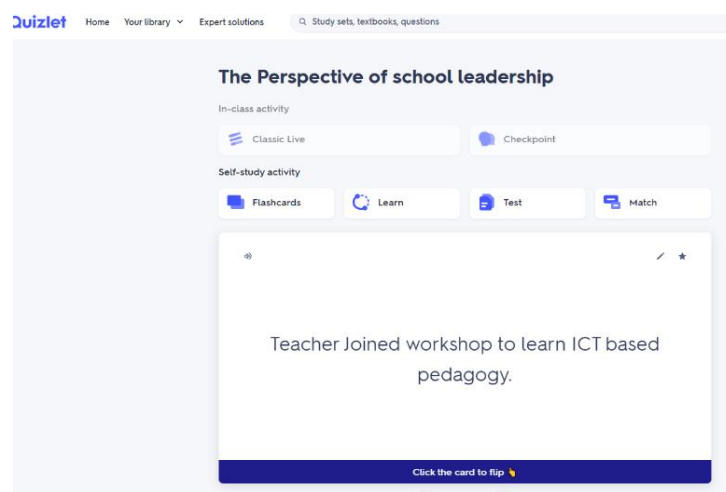
University faculty, Dr Dhrupadi Chattopadhyay from the Department of English, Dr. Sangeeta Borase from the Department of Economics, Dr Devita Nalawade & Dr Kirti Jamdar from LT College of Nursing and ten other University teachers from different departments and colleges use Quizlet as a tool of collaborative learning.

Kahoot

Kahoot is an interactive tool that is commonly used in various learning activities. It is a game-based learning platform that allows teachers and students to create and play quizzes, surveys, and discussions. It is a versatile tool that can be used for various learning activities. It allows teachers and students to create and play interactive quizzes, surveys, and discussions, making it a great tool for engaging and interactive learning experiences.

University faculty, Dr Pratima Tatke from C U Shah College of Pharmacy, Dr. Devita Nalawade & Ms. Arpana Patil from LT College of Nursing, and fifteen other University teachers from different departments and colleges use Kahoot as a tool for eAssessment.
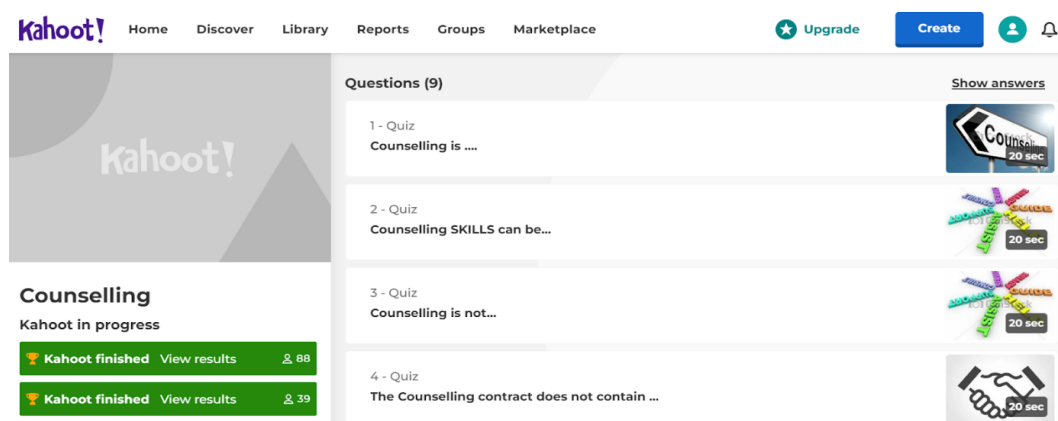
Sample work of faculty using Kahoot

Google Drawing:

Google Drawings is a versatile and interactive tool that can be used for various learning activities. It is a vector graphics editor that allows users to create diagrams, flowcharts, mind maps, and other visual aids. Google Drawings is a versatile tool that can be used for various learning activities. It allows teachers and students to create visual aids, collaborate on projects, and organize their thoughts and ideas. Teachers can use Google Drawings to create engaging and interactive learning experiences for their students.

University faculty, Dr Vikram Kulkarni from the Department of Drawing and Painting, and fifteen other University teachers from different departments and colleges use Google drawing as a tool of collaborative learning.
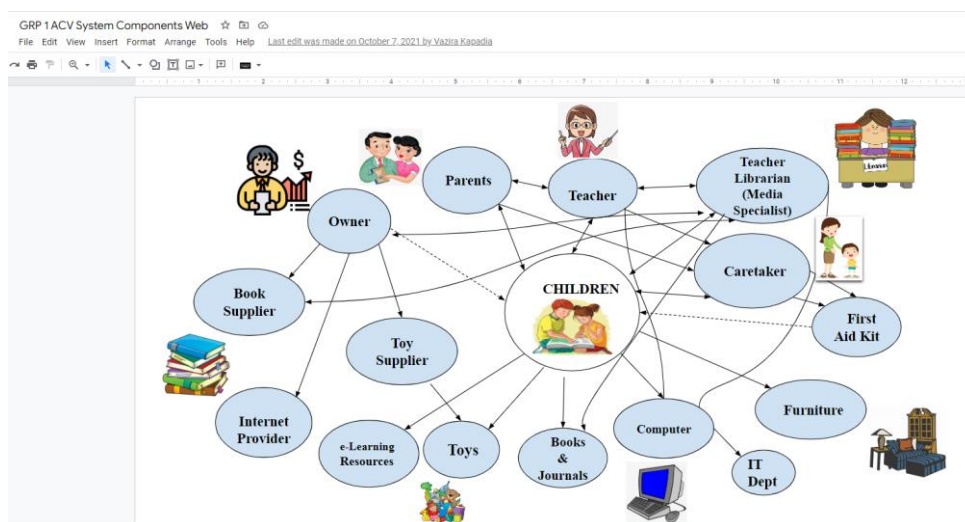
Components of System presented collaboratively by students of Dept of EdTech

PowerPoint Presentation:

PowerPoint is a popular tool in the teaching-learning process that can be used to create visually engaging presentations for educational purposes. It can be a useful tool in the teaching-learning process, helping educators to create engaging and effective learning materials that can enhance the learning experience for students.

Almost all our University faculty as well as students use Powerpoint or Libre Office for their presentations.

Sample work of faculty using Powerpoint presentation

Piktochart:
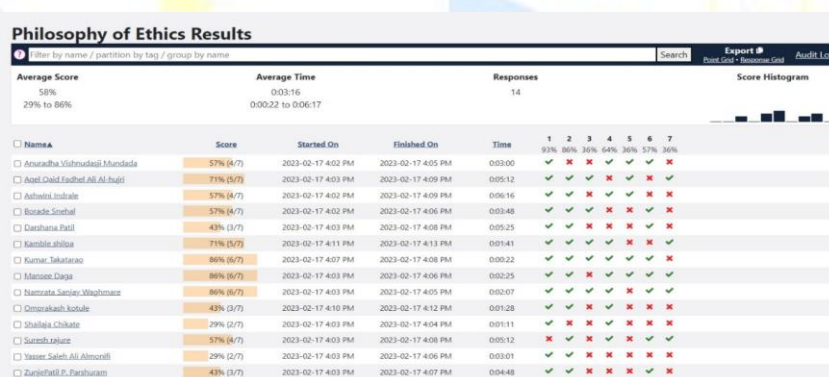
Piktochart is an interactive tool that can be used for learning in various ways. It is a visual communication tool that allows users to create and share infographics, posters, and presentations. Piktochart can be used in several ways to enhance the teaching and learning process.

University faculty, Ms Rajani Nair from UMIT, Ms Nikhila Rane from the Department of Textile Science and Apparel Design, Prof. Jayashree Shinde and students and 8-10 other University teachers from different departments and colleges use Piktochart for infographics.

Testmoz:

Testmoz is an online test generator that allows teachers to create and manage multiple-choice tests and quizzes. It is a useful ICT tool to help teachers create and manage multiple-choice tests and quizzes. Its simplicity and ease of use make it an ideal tool for classrooms of all sizes and types, and its online accessibility makes it easy for students to take the test from anywhere.

University faculty, Dr Namita Desai from CU Shah College of Pharmacy, Dr Rekha Chavhan from the Department of Education and two other University teachers from different departments and colleges use Testmoz as a tool for eAssessment.

Sample work of faculty using Testmoz

X Mind:

X Mind is a powerful tool for visualizing and organizing ideas, and it can be used in various learning activities to enhance students' creativity, critical thinking, and problem-solving skills. By visualizing and organizing their ideas, students can better understand, analyze, and communicate complex concepts and topics.

University faculty Dr Madhavi Dharankar from the Department of Educational Technology uses X Mind.

Mindomo:

Mindomo is an interactive tool that can be used in various learning activities to enhance students' creativity, critical thinking, and problem-solving skills. Mindomo is a web-based mind mapping and brainstorming tool that allows users to create visual diagrams that represent their ideas, thoughts, and concepts.

University faculty, Ms Sheetal Kothare from LT College of Nursing, Dr Jyothi Scqueira from UMIT, and five more University teachers from different departments and colleges use Mindomo.

Microsoft Whiteboard:
Microsoft Whiteboard is an interactive tool that can be used for teaching and learning activities. It is a digital canvas that can be used to collaborate, brainstorm, and share ideas in real time. Microsoft Whiteboard is available as a web app and can be downloaded as a desktop or mobile app. By providing an interactive and collaborative platform, students can work together, share their ideas, and learn in a more engaging and effective way. A few faculty use the tool.

IPEVO Whiteboard:
IPEVO Whiteboard is an ICT tool that allows users to transform any flat surface into an interactive whiteboard. It consists of a small camera device that can be attached to a projector or computer, and specialized software that enables users to write and draw on the surface with a digital pen.

Mr. Bharat Patil from UMIT uses IPEVO Whiteboard as an interactive tool for learning.

Pixton:
Pixton is an online tool that enables users to create digital comics and storyboards without requiring any artistic skills. It is a web-based application that can be used on any device with an internet connection, making it accessible and convenient for users.

Dr Sandeep Bhaise from the Department of Psychology, and students of the Department of Educational Technology use Pixton as an interactive tool for learning.

Google SketchUp:
Google SketchUp is a 3D modelling software that can be a useful tool for students in various disciplines such as architecture, engineering, graphic design, and visual arts. It is a powerful tool for students in various disciplines, providing a platform for creative expression and experimentation, and enhancing their understanding of complex concepts and designs.

University faculty, Dr Vikram Kulkarni from the Department of Drawing and Painting, and fifteen more University teachers from different departments and colleges use Google SketchUp.

Plickers:
Plickers is an interactive classroom response system that uses a combination of paper cards and mobile devices to engage students and assess learning outcomes. Plickers is a useful ICT tool that can help teachers engage students, assess learning outcomes, and personalize learning. Its simplicity and ease of use make it an ideal tool for classrooms of all sizes and types.

Dr Madhavi Dharankar from the Department of Educational Technology uses this tool for collaborative learning.

Online coding environment

An online coding environment, also known as an Integrated Development Environment (IDE), can be a powerful tool for learning coding and programming. An online coding environment can be a powerful tool for learning coding and programming, providing learners with real-time feedback, opportunities for collaboration, and a hands-on learning experience. With its accessibility and customization options, an online coding environment can be an effective way to teach coding and programming to learners of all levels and backgrounds.

Ms Merrin Mary Solomon and Ms. Sonali Bodekar, Dr. Jyothi Sequeira, Ms. Ankita Umale from UMIT and five more university teachers use this technology for teaching coding and programming.

Tinkercad:

Tinkercad is an online 3D design and modelling tool that allows users to create digital designs and 3D models. It is a versatile tool that can be used for 3D design and modelling, as well as for teaching and collaboration. Its user-friendly interface and integration with 3D printing make it a valuable tool for designers, educators, and students alike.

Ms. Pratibha Mahakal from UMIT uses this tool for 3D design and modelling.

Student Resources:

More than 100 University faculty members use YouTube resources extensively, about 70 University faculty use Slideshare, 30+ faculty use content from MOOCs, about 40 University faculty use NPTEL resources, 45 University faculty use content and courses of Coursera, 100+ faculty and their students use Shodhganga for research review and referencing, 40+ faculty share e-PG Pathshala resources, 60+ use National Digital Library resources, 10+ faculty use NMEICT and 20+ University faculty use various OERs.

ePortfolio

Students of Department of Educational Technology compile their best assignments, write about themselves, insert resume and develop beautiful ePortfolio by using Wix. The department then shares the online ePortfolios with the prospective employers for internship and placements.
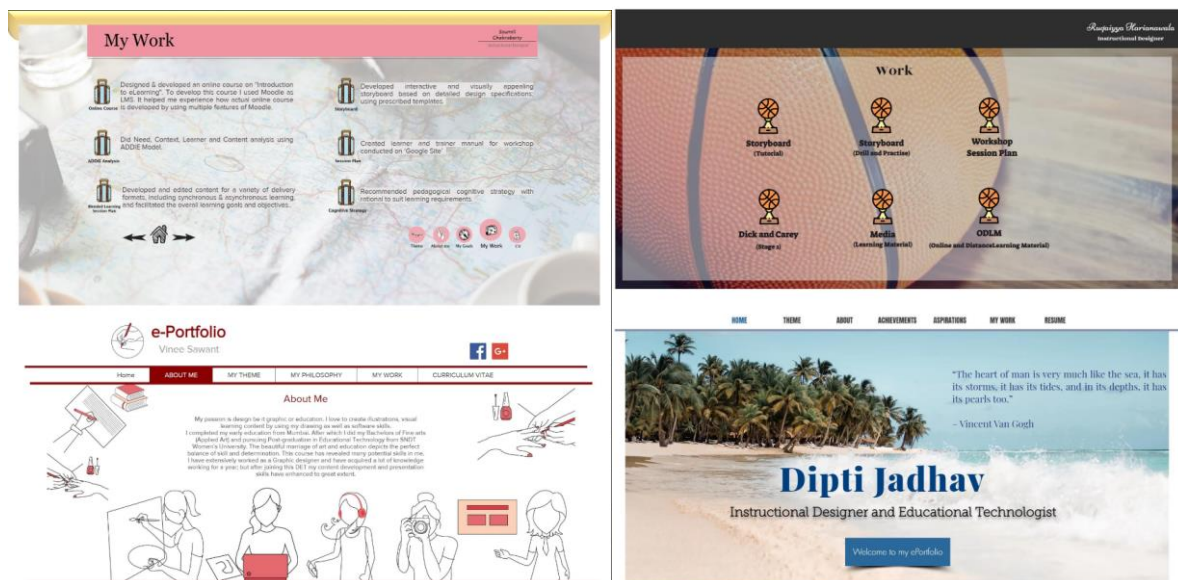
ePortfolio screens of DET students

Conclusion:

In conclusion, SNDT Women's University's use of ICT tools and online resources in teaching and learning bears testament to its commitment to providing a modern and effective learning environment to its students. By utilizing tools such as the Moodle LMS, online discussion forums, multimedia content, educational websites, online assessments, and communication tools, the faculty, and students of SNDT Women's University have access to a wide range of resources that enhance their learning experience.

These tools enable them to collaborate, communicate, and access information in ways that were not possible in traditional education settings. The innovative use of ICT tools and online resources has transformed the teaching and learning process at SNDT Women's University, making it a leader in women's education.

The information mainly depends on the responses from the faculty teaching in institutes under NAAC. Faculty from Polytechnic, other undergraduate and education colleges use extensive use of LMS, eResources as well as ICT tools for teaching-learning evaluation. A few faculty of the university regularly upgrade their knowledge about integration of ICTs by participating in related FDPs, majorly through Teaching Learning Centre of the Department of Educational Technology of the University. TLC has also developed several eResources for using many of these ICT tools for the Higher Education Faculty of the country.

The values inculcated in the faculty and the students in nothing but collaboration and team-work. ICT tools is not an end for the learners of SNDTWU, but the means to collaborate and acquire 21st Century skills.

Use of various LMS platforms, ICT tools, eResources and Synchronous tools by SNDTWU Faculty

Number of teachers using ICT (LMS, eResources) (5 LMS)		ICT Tools and resources available (17 types of ICT tools)		eResources and techniques used (4 Synchronous tools 18 types of resources)	
No. of Teachers		**No. of Teachers using**		**No. of Teachers using**	
LMS Users:	103	Gdoc:	106	GMeet:	146
Moodle users:	28	G-Spreadsheet:	66	Zoom:	93
Google Classroom:	88	G-Drawing:	18	Webex:	14
Teachmint:	1	GForm:	122	Microsoft Teams:	9
Edmodo:	10	GSlides:	97	NMEICT resources:	9
Canvas:	4	Jamboard:	90	Youtube videos:	109
		Conceptboard:	18	Slideshare resources:	66
		Padlet:	28	SCRIBD resources:	19
		Sketchup:	4	Other OERs:	5
		Kahoot:	19	eBooks:	116
		Piktochart:	9	Journal articles and papers:	110
		Canva:	18	Shodhganga:	58
		Miro:	14	Web-articles:	90
		Quizlet:	20	Blogs:	29
		Mindomo:	07	Statistical computation sites:	12
		Testmoz:	2	*Free image resources such as*	
		Online programming tools:	6	Pixabay, Freepix etc.:	13
				Digital library Databases:	38

Team

Prof. Jayashree Shinde
Dr. Ganesh Chavan
Dr. Mahesh Koltame
Dr. Pramila Patil
Dr. Madhavi Dharankar
Ms. Rajni Nair
Ms. Nikhila Rane
Mr. Bharat Patil

एस्. एन्. डी. टी. महिला विद्यापीठ

✳ कुलगीत ✳

"संस्कृता स्त्री पराशक्ति" स्वर हमारा है
विश्व है परिवार, भारत घर हमारा है।
हम नहीं हैं दीन, कहता कौन हम अबला
है सबल संस्कृति हमारी, हम सभी सबला
ज्योती से जगमग हुआ, अंतर हमारा है।।
स्वप्न ठाकरसी हुआ साकार है इसमें
महर्षि कर्वे तपस्या - सार है इसमें
हम दिशाएँ और यह दिनकर हमारा है।।
"संस्कृता स्त्री पराशक्ति" स्वर हमारा है
विश्व है परिवार, भारत घर हमारा है।