



MANAV RACHNA
UNIVERSITY 

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MANAV RACHNA UNIVERSITY



ICT ENABLED LEARNING

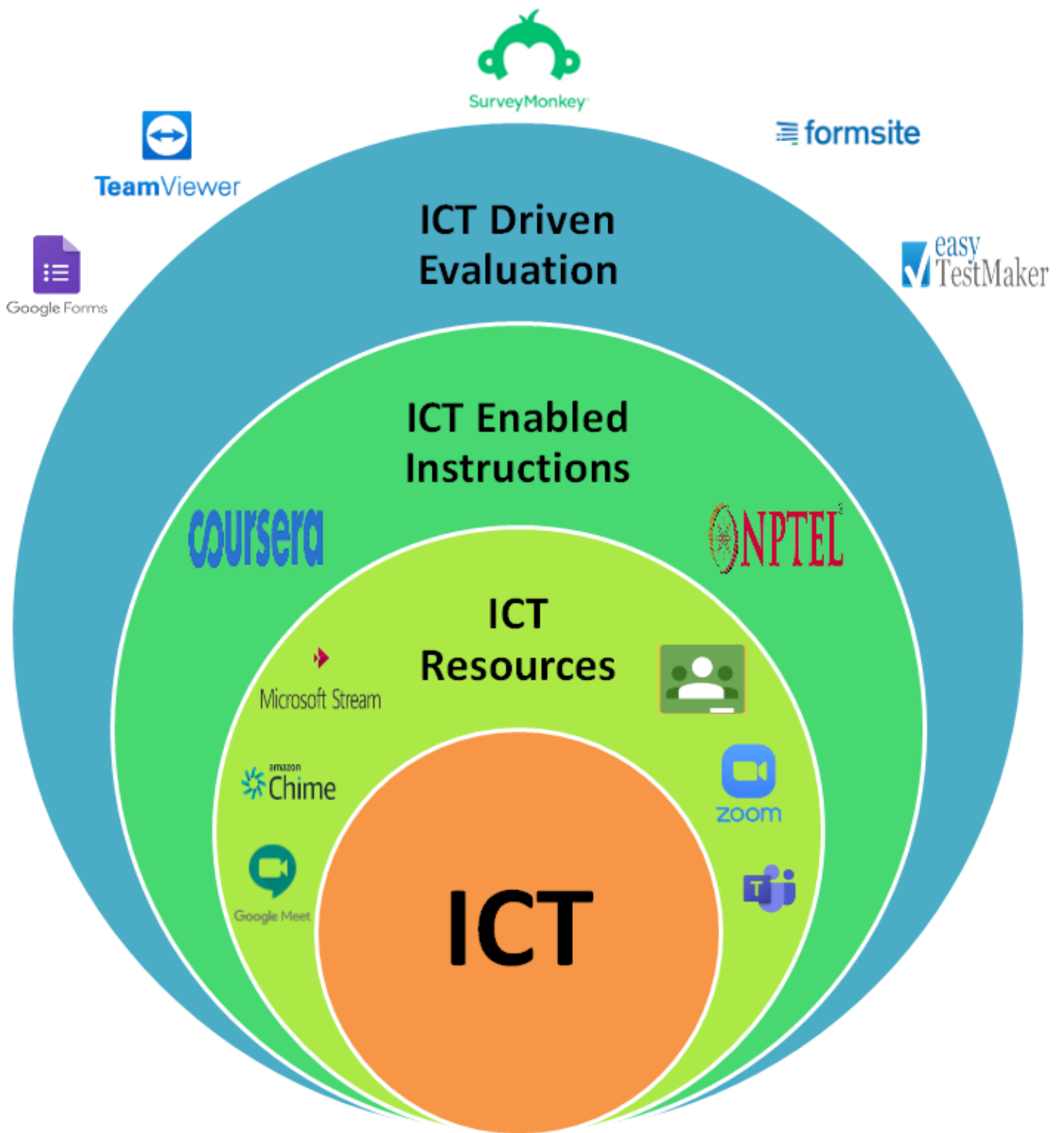
Information and Communication Technology (ICT) has revolutionized education, and it has brought about significant changes in teaching and learning practices. The use of ICT at Manav Rachna University has created a conducive learning environment for students and teachers, providing access to various online resources and tools that facilitate learning.

ICT has made learning more flexible and accessible, allowing students to access course materials at any time and from any location. This has increased the efficiency of learning as students can learn at their own pace and in their preferred environment. ICT-enabled learning has also facilitated collaboration and communication among students and teachers, enabling them to share ideas, experiences, and knowledge easily.

ICT-enabled learning at Manav Rachna University enables the integration of multimedia into the learning process, including audio, video, animations, and simulations, which has made learning more interactive and engaging. This has also improved student retention and comprehension of course materials.

At Manav Rachna University we:

1. Provide adequate ICT infrastructure and resources such as high-speed internet connectivity, hardware, software, and other online learning resources.
2. Provide training and support for teachers and students on the use of ICT in teaching and learning.
3. Ensure equal access to ICT infrastructure and resources, especially for students from diverse backgrounds.
4. Encourage collaboration and communication among students and teachers by providing online platforms.
5. Develop and implement strategies that ensure the integration of multimedia in the learning process.



ICT Resources:

- **ERP Software**

The use of ERP Software at Manav Rachna University provides several benefits to both students and teachers. ERP software tracks student progress, provides personalized feedback, and supports collaborative learning, which enables students to learn at their own pace and in their preferred way. It provides real-time data to teachers, allowing them to adjust their teaching strategies and provide timely feedback to students. This approach to teaching and learning supports student-centered learning, which emphasizes the needs and interests of individual students, and allows for a more effective and engaging learning experience. The use of ERP software for student-centered learning improves the quality of education and enhances the learning outcomes of students.

- **Video Conferencing Tools:**

University has range of video conferencing tools such as **Microsoft Teams, Google Hangouts Meet, Google Classroom, Zoom, Microsoft Stream, and Amazon Chime** to ensure the smooth curricular transactions. Integration of these tools during Teaching Learning Transaction at Manav Rachna University enables virtual communication, collaboration, and teamwork among students and teachers. These tools transformed the teaching and learning process by incorporating:

1. **Real-time communication:** It allows real-time communication between teachers and students. It enables them to communicate through chat, audio, and video conferencing.
2. **Collaboration:** It facilitates collaboration among students and teachers, allowing them to share ideas, files, and notes in real-time.
3. **Accessibility:** Accessible from anywhere and at any time, making it easy for students and teachers to communicate and access course materials.
4. **Multimedia integration:** Allows the integration of multimedia resources such as videos, images, and audio, making the learning process more engaging.

- **Projectors**

The use of projectors in classrooms provide a more interactive and engaging learning experience by allowing teachers to present multimedia content, such as videos, images,

and interactive simulations, to students. This approach to teaching and learning allows students to learn in a way that suits their learning style, as they can watch, listen, and interact with the content in a way that is more engaging than traditional lectures. Projectors are used to support collaborative learning by allowing students to work together on projects and presentations, and share their work with the class.

- **ICT Labs**

ICT Labs at Manav Rachna University provides students with access to technology, which is an essential component of modern education. These labs provide a platform for students to learn how to use technology to access information, analyze data, and communicate with others. The use of ICT labs in modern education supports personalized learning, which allows students to learn at their own pace and in their preferred way. ICT labs provide students with access to the latest educational software and tools, which enhance their learning experience and help them, develop essential skills for the modern workplace and equip the students with the skills and knowledge they need to succeed in the digital age.

ICT Driven Teaching Learning Methods:

- **Blended Learning**

Manav Rachna University facilitates Blended Learning that combines online and traditional face-to-face instruction in order to provide flexibility, personalization, and a more engaging learning experience for students. Integrating Blended Learning within the curriculum ensures:

1. **Flexibility:** Students learn at their own pace and in their preferred environment, providing more flexibility than traditional face-to-face instruction.
2. **Personalization:** Enables the teachers to personalize instruction, providing students with the resources and support they need to succeed.
3. **Engagement:** Provides a more engaging learning experience for diverse learners.
4. **Accessibility:** Provides equal access to education for students over traditional face-to-face instruction.

- **Flipped Classroom**

Manav Rachna University advocates the use of innovative teaching and learning approaches including Flipped Classroom that involves reversing the traditional classroom model, where students watch video lectures and complete online activities outside of class, and then engage in collaborative, interactive activities and discussions during class time. With the execution of Flipped Classroom we ensure:

1. **Personalization:** It allows teachers to personalize instruction, providing students with the resources and support they need to succeed.
2. **Active learning:** It promotes active learning, as students engage in collaborative, interactive activities and discussions during class time.
3. **Flexibility:** It provides students with more flexibility as they can complete the lecture videos and online activities outside of class at their own pace.
4. **Mastery-based learning:** It provides students with the opportunity to master the material at their own pace, allowing them to move on to more challenging content when they are ready.

- **Massive Open Online Courses (MOOCs)**

Manav Rachna University provides an enriched curriculum by integrating MOOCs into the syllabus as a means of enhancing the quality of the courses. **Swayam NPTEL and Coursera** are two prominent online learning platforms that have significantly impacted knowledge dissemination. These platforms offer a vast array of courses, from basic to advanced levels, on various subjects such as computer science, business, engineering, humanities, and social sciences. Coursera and Swayam NPTEL provide certification options, which helps our students to acquire new skills, enhance their careers, and even gain recognition for academic credits. Courses offered on these platforms are mapped with the program elements to ensure:

1. **Access to high-quality content:** It offer access to high-quality educational content from leading universities around the world, which enhances the quality of the university syllabus.
2. **Flexibility:** Provide students with more flexibility as they can complete the course at their own pace and in their preferred environment.

3. **Innovation:** Integrating courses offered on **Swayam NPTEL and Coursera** into the university syllabus provides the opportunity for innovation in teaching and learning, incorporating new technologies and approaches.

Online Assessment & Evaluation Tools:

Online assessment and evaluation tools such as **SurveyMonkey, Formsite, and Easy Test Maker** allow instructors to create assessments that are tailored to their course content and objectives, while providing students with a flexible and convenient way to demonstrate their knowledge and skills. They also offer a time-saving alternative to traditional paper-based tests, freeing up instructors to focus on providing feedback and improving their teaching. In addition, online assessment tools provide valuable data that can be used to improve teaching and learning outcomes. They offer:

1. **Convenience:** Online assessment tools provide a convenient way to evaluate students' knowledge and skills without the need for paper-based tests. Students complete tests and surveys at their own pace and from any location with an internet connection.
2. **Flexibility:** Online assessment tools offer greater flexibility in terms of the types of questions and the formats in which they can be presented. This allows instructors to create more engaging assessments that are better suited to their course content and objectives.
3. **Time-saving:** Online assessment tools save instructors time by automating the grading process. This allows instructors to focus on providing feedback and improving their teaching rather than spending time grading papers.
4. **Data analysis:** Online assessment tools provide instructors with valuable data that are used to improve their teaching and course content. By analyzing test results and survey data, instructors identify the areas where students are struggling and make changes to improve student learning outcomes.
5. **Student engagement:** Online assessment tools improve student engagement by providing immediate feedback and allowing students to track their progress. This motivates the students to work harder and take greater responsibility for their learning.
6. **Remote learning:** Online assessment tools have become particularly significant in the context of remote learning, due to the pandemic.