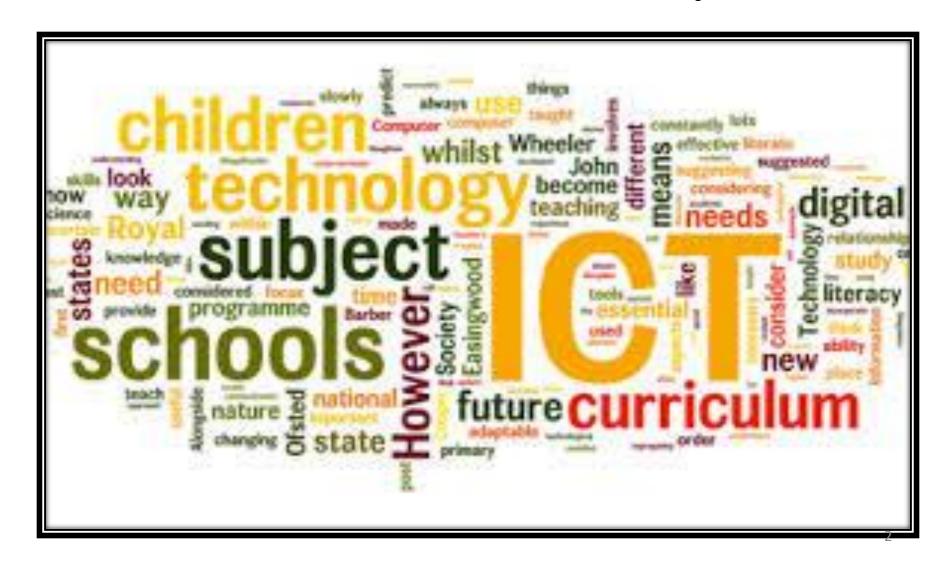




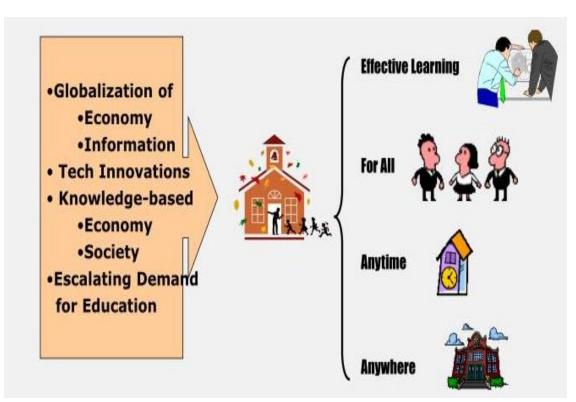
Essentials of Technology Adoption by Teachers

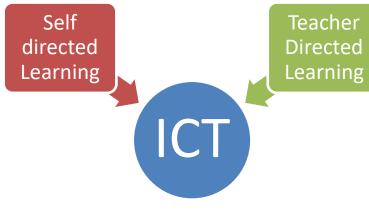
Dr.Vidya S.Gavekar Associate Professor Sinhgad Institute of Management, Pune

Importance of IT-Changing role of Teacher in 21st Century

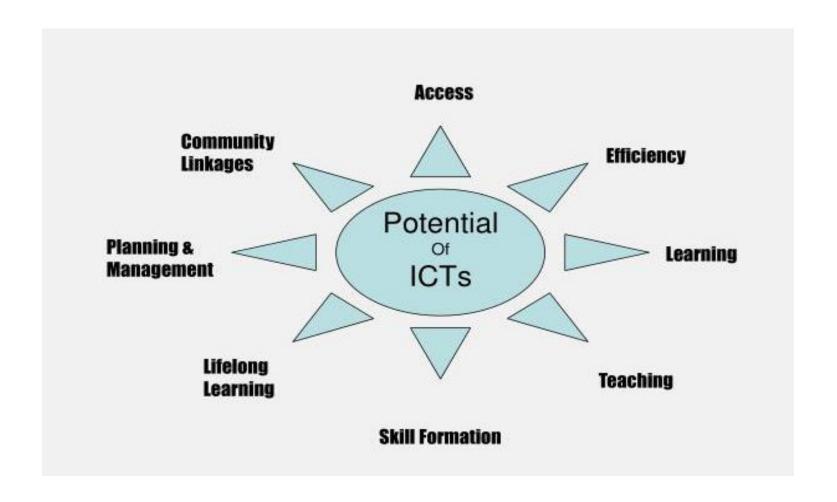


Changing the Role of Teacher and Learner

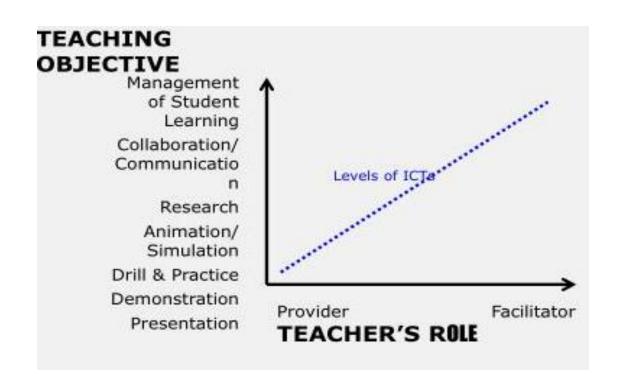




Potential of ICT



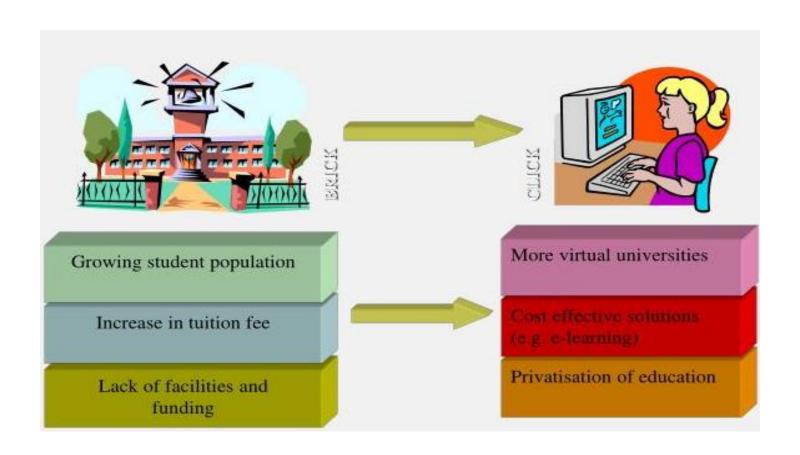
Level of ICTs for different Teaching Uses and Roles of Teachers



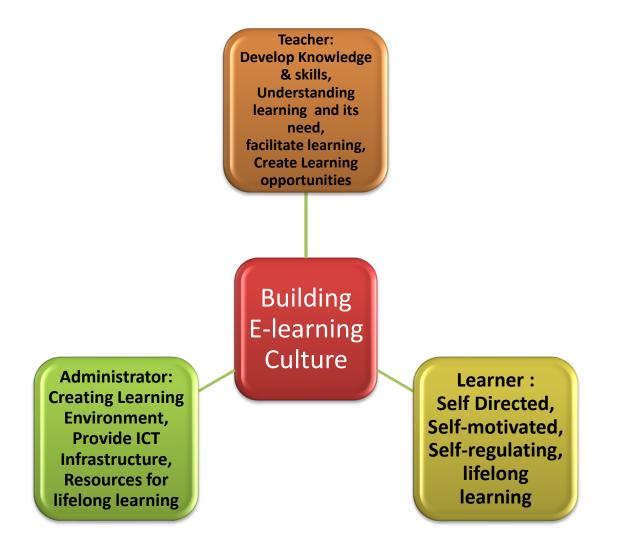
Traditional Classroom vs Modern Classroom

Tra	ditional and E-learning	approaches
	Traditional Classroom	E-Learning
Classroom	Physical – limited size Synchronous	Unlimited Anytime, anywhere
Content	PowerPoint/transparency/e tc Textbooks/library Video Collaboration	Multimedia / simulation Digital library On demand Syn & Asyn. Communication
Personalisation	One learning path	Learning path and pace determined by learner

Delivery mode is to be changed now



Building E-learning Culture



Changes in Teachers and Students Role

Changes in Teacher Role A Shift from:

- ✓ Knowledge transmitter, primary source of information, content expert and source of all answers.
- ✓ Teacher controls and directs all aspects of learning

A shift to:

- ✓ Learning facilitator, collaborator, coach, mentor ,knowledge navigator, and CO-LEARNER
- ✓ Teacher gives students more option and responsibilities for their own learning

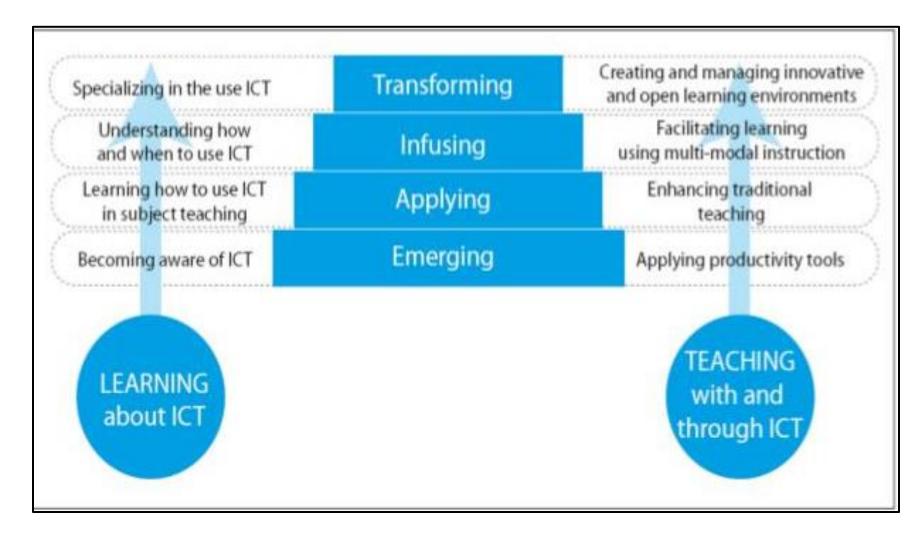
Changes in Student Role

- ✓ A Shift from:
- ✓ Passive recipient of information
- ✓ Reproducing knowledge
- ✓ Learning as solitary activity

A shift to:

- ✓ Active Participants in learning process
- ✓ Producing and sharing knowledge, participating at times as expert
- ✓ Learning collaboratively with others

ICT stages in Teaching and Learning



Role of ICT in Effective Teaching & Learning



Benefits of ICT in Education

- ICT become today's integral part of teaching and learning process.
- Provide greater opportunity for teacher-to-teacher and student-tostudent communication and collaboration.
- Provide opportunities for multiple technologies delivered by teachers.
- Create greater enthusiasm for learning amongst students.
- Provide teachers with new sources of information and knowledge.
- Prepare learners for the real world.
- Provide learners with additional resources to assist resources based learning. Learning for the benefits of all lea
- Leveraging ICT to assist and facilitate learning for the benefits of all learners and teachers across the curriculum.
- Improving the efficiency of educational administration and management at every level from the classroom, school library, through the school and on to the sector as a whole.

In brief summary

- ICT helps to simulate, motivate and engage learners.
- Enable better understanding
- Cultivate improved communication
- Quick access to information
- Easy availability of updated data
- Wider range of communication media.
- Wider learning opportunities for learners.
- It promotes individual learning
- Technology bridges the gap between teachers and students
- Technology encourages group learning
- It simplifies teachers work

Impact of ICT

- On the curriculum
- On teaching and learning process
- On teachers role
- On educational management
- On assessment and evalution



List of ICT tools in Teaching and Learning

- Technology-It refers to the collection of tools that make it easier to use, create, manage and exchange information.
- Technology is just a tool. In terms of getting the kids working together and motivating them, the teacher is the most important.
 - Bill Gate 2010

ICT Tools

Computer





Laptop





Notebook





Smart Phone





PDA



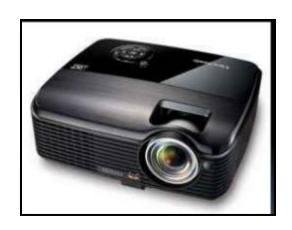


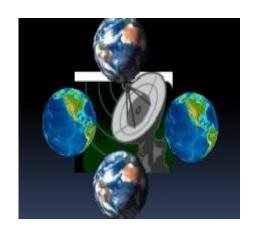
LCD Projectors



Internet & E-mail







Software's





Resources

 Teachers and Students can find information on Anything, Anytime, Anywhere using...













Communication Channels







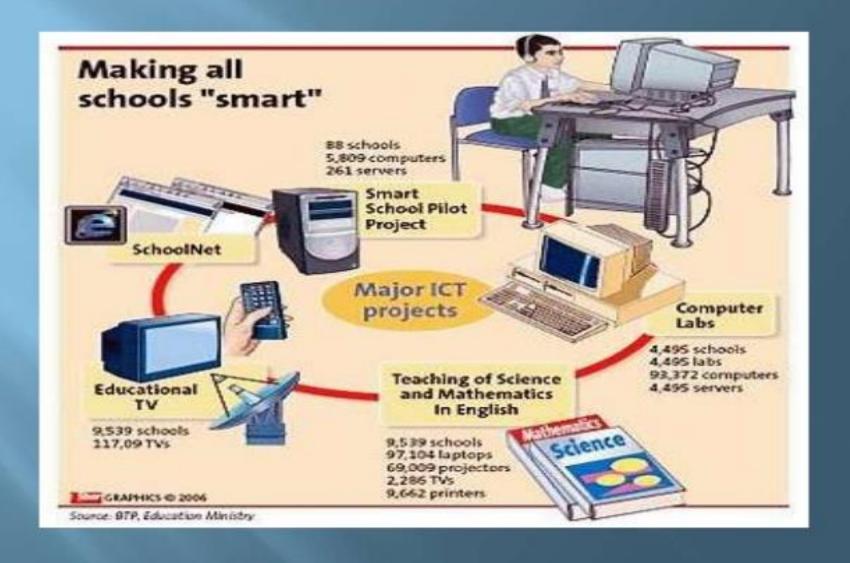






Skills that can be acquired through ICT tools

- Teachers and students can get the following skills-
 - Blogging
 - Programming
 - Designing
 - Tagging
 - Uploading
 - Twittering
 - Bookmarking
 - Searching
 - Editing
 - Downloading
 - Subscribing
 - Commenting
 - Linking
 - Linking



Technology adoption - knowledge of software tools on Computer

- MS-Office
 - MS Word
 - Ms Excel
 - Ms Power Point



MS-Word

 Microsoft Word is a valuable part of the technology now available for educators in schools. students and teachers b oth receive many benefits when doing class work on the computer. Many of the headaches of paper work are eliminated.

Usages of MS-Word



Lesson plan



Test Papers



News letters/Magazines



Student worksheet



Attendance sheet



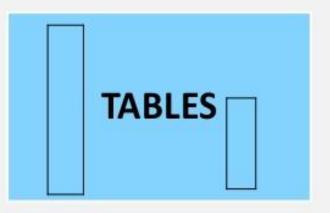
MS-Word

Microsoft Word is very helpful word
 processing software which can easily be used
 as a learning medium for student. students of
 one hand utilize MS word for the assignments
 preparation while teachers can use it for
 report writings, paper setting and result
 compilation.

Microsoft Word is excellent for creating different documents on your computer!

This presentation will cover the basic steps for the following:

Text Formatting





You can use different formatting tools when creating the following:

· School Papers



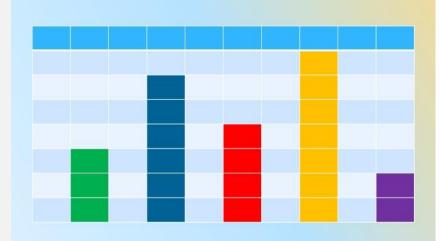
Class Newspapers



· Resumes (for when you get MUCH older)

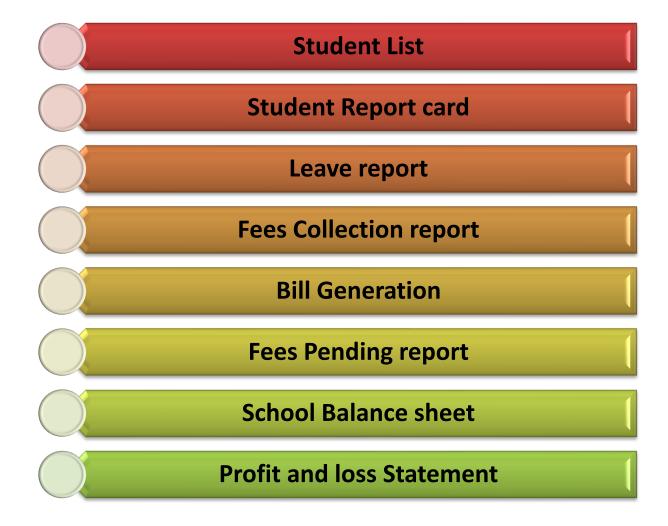


You can also create tables in MS Word





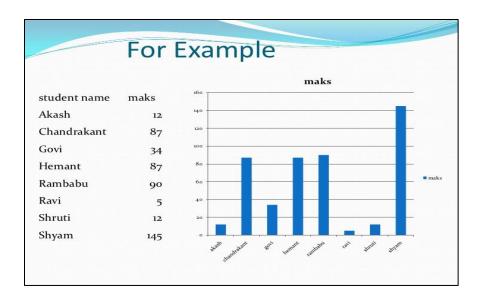
Usages of MS-Word

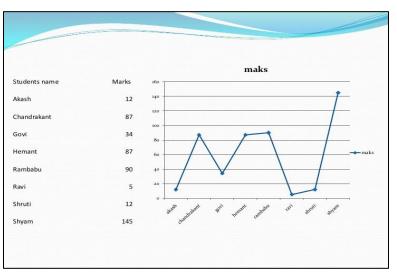


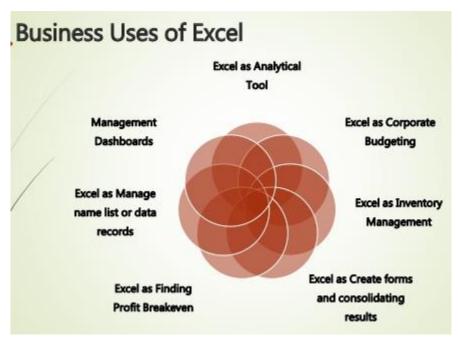


MS-Excel

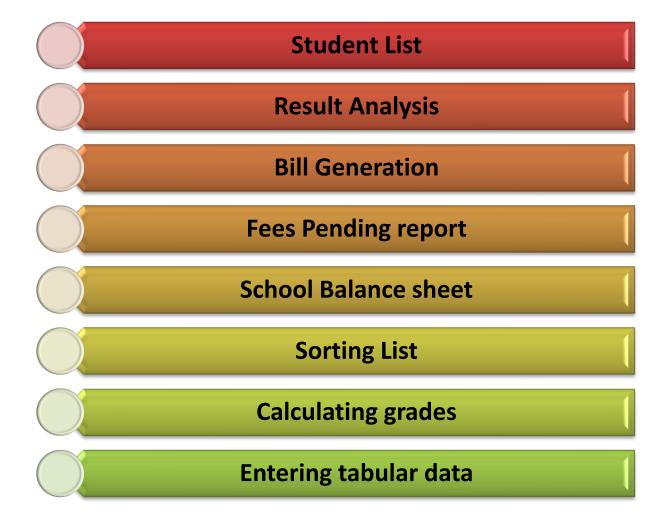
- Microsoft Excel offers a lot of benefits with its functions, formulas, graphs or charts and tables.
- Excel worksheets are of a great help to almost all professions. Teachers can extract several benefits from Excel worksheets in the classroom.
- In the process of teaching and learning, both teachers and students find it easier to make use of excel worksheets.
- The activities, such as, preparing lesson plans, grading papers, creating graphs or tables and many more can be carried out effectively and efficiently by using excel spreadsheets







Usages of MS-Excel





MS-Power Point

- Nowadays, PowerPoint is an educational tool for teaching and delivering materials in classes.
- It was basically developed for presentation and not essentially for teaching and learning in a classroom. Its applications in teaching and learning settings should provide better means of communicating information to the students.
- PowerPoint can enhance your teaching sessions by providing a roadmap, reinforcing what you say and allowing you to use graphics and other multimedia to clarify understanding and to support different learning styles



Features

Potential benefits of using presentation graphics include:

- Increasing visual impact
- Improving audience focus
- Providing annotations and highlights
- Analyzing and synthesizing complexities
- Enriching curriculum with interdisciplinary approach
- Increasing spontaneity and interactivity
- Increasing wonder



Smart Phone-Communication with Parents

 WhatsApp- is a free messenger application that works across multiple platform and is being widely used among people to send multimedia messages like photos, videos, audios along with simple text messages





Role of WhatsApp as teaching learning tool

Technical

- Free to use
- Free calls and video calls
- Easily available & downloadable
- Simple to use
- Privacy

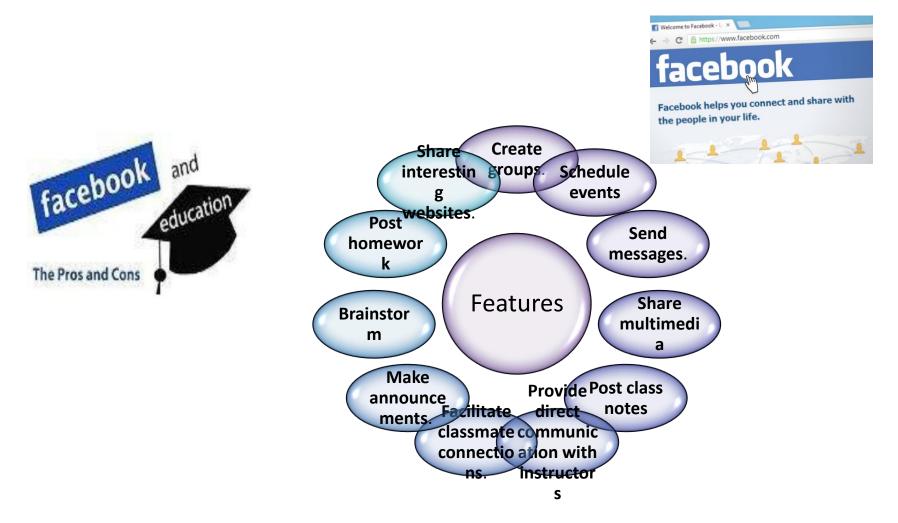
Educational

- Interaction with students and sharing materials
- High interaction with facilitators
- Doubts immediately cleared
- Conductive Environment
- Sense of belonging group

Instructional

- Easy accessibility of learning material
- Facilitators Availability
- Learning anytime anywhere
- Provide secure environment

FaceBook

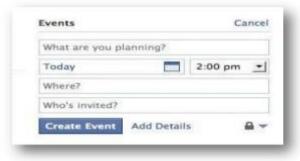


Use of Facebook in teaching and learning



Calendars and events are easy to share. Through this tool, we can remind students of important dates.





Students are connected. Students are checking Facebook multiple times per day.



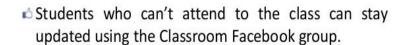
student is familiarized with Facebook, and most of them are excited to be able to use the site for collaborative learning.





Online resources. Posting links on your classroom wall makes it easier for students to read them.









Class resources are available anywhere. Students can read notes and assignments anywhere they can find Internet connection. Debates can be encountered online. Extend classroom discussions onto Facebook, where students can spend more time in active learning and debate.





Students can create, posting discussions, resources, and more. They can learn the importance of creating content.



Ask questions of our class on Facebook and get easy answers using polling tools on this website.





We can find tons of applications for classroom learning, including mathematical formulas, slideshow apps, notes, and more..









YouTube-Useful Learning Resource

Benefits of YouTube

Studen create a more ts ng sensory experience than using print materials alone.

Videos increase knowledge retention

They provide a go-to resource that can be watched from anywhere

They greatly assist in the learning of all subjects

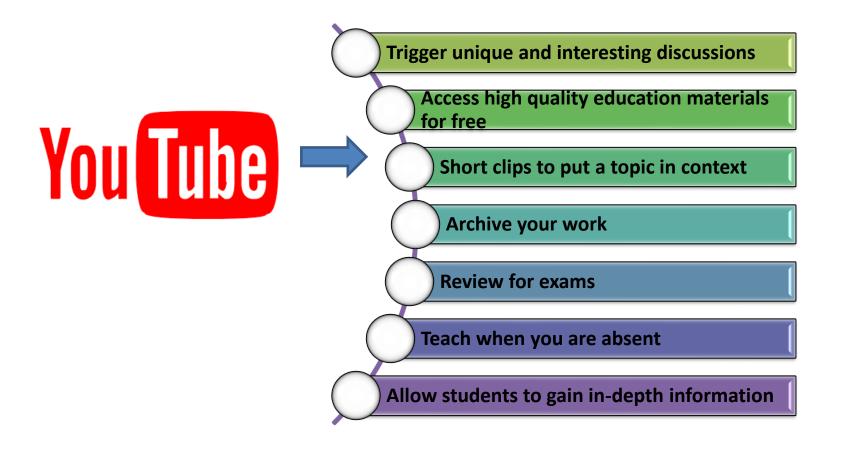
They increase proficiency in digital literacy and communication

Teacher Videos increase student engagement They offer the flexibility Digital videos facilitate remote learning opportunities They provide opportunities for student feedback and assistance Videos seek to change the roles of teachers from lecturers to facilitators Ideal for slow learners One teacher, multiple classrooms

Instituti
ons
The potential to improve marketing and communications

More flexible faculty and staff training.
Ability to record campus events for live or ondemand viewing

Important tips for using YouTube in Classroom



Amazon Alexa –For Self Learning





- Alexa is the voice service that power Echo device, or skills that enable customers to interacts with devices in more intuitive way using voice.
- It is built in the cloud ,so it is always getting smarter.



Amazon Echo is a hands-free speaker controlled with your voice.



Alexa kills Kit:

- Collection of self service APIs
- Tools
- Documentation
- Sample Codes









Order Foods & Drinks

Get a ride

Control smart home device







Game scores Todays game



Learn

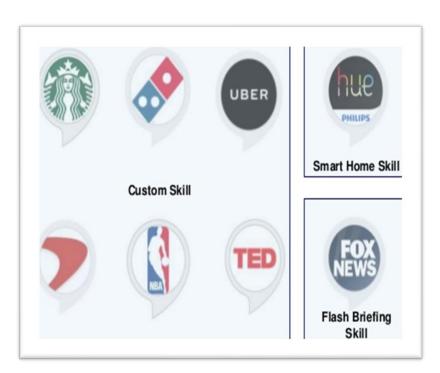


Get latest news



Alexa Skills Types

- Custom Skills
- Smart Home Skills
- Flash Briefing Skills



ICT based Educational Activities

