

CURRENT PERSPECTIVE

A Webinar

Online Education System

Student Week Observation :
1st Jan to 7 Jan, 2022

Speaker

Prof. Debashis Barman

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Online Education System

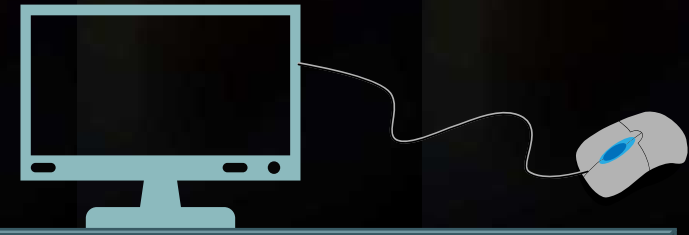
A new approach for Education.



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What is online education?



Computer-based training, Web-based training, Internet based training, online training, e-learning (electronic learning), m-learning (mobile learning), computer-aided distance education - online education goes by many names and comes in a variety of styles, but at its core:

“Online education is electronically supported learning that relies on the Internet for teacher/student interaction and the distribution of class materials.”

“Every Class Room must have to arrange a TV for online Education System”

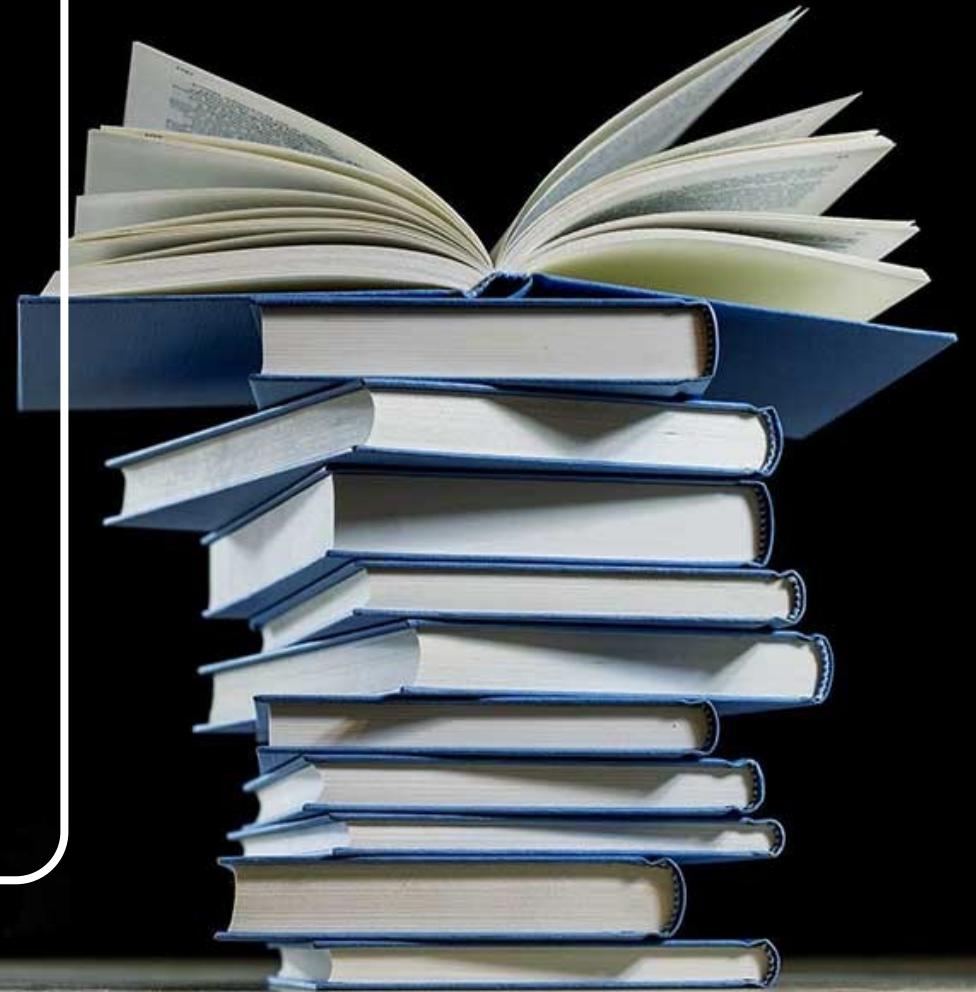
Mode of Online Education

•**100% Online Education** - Fully-online degrees are earned from the comfort of your own home.

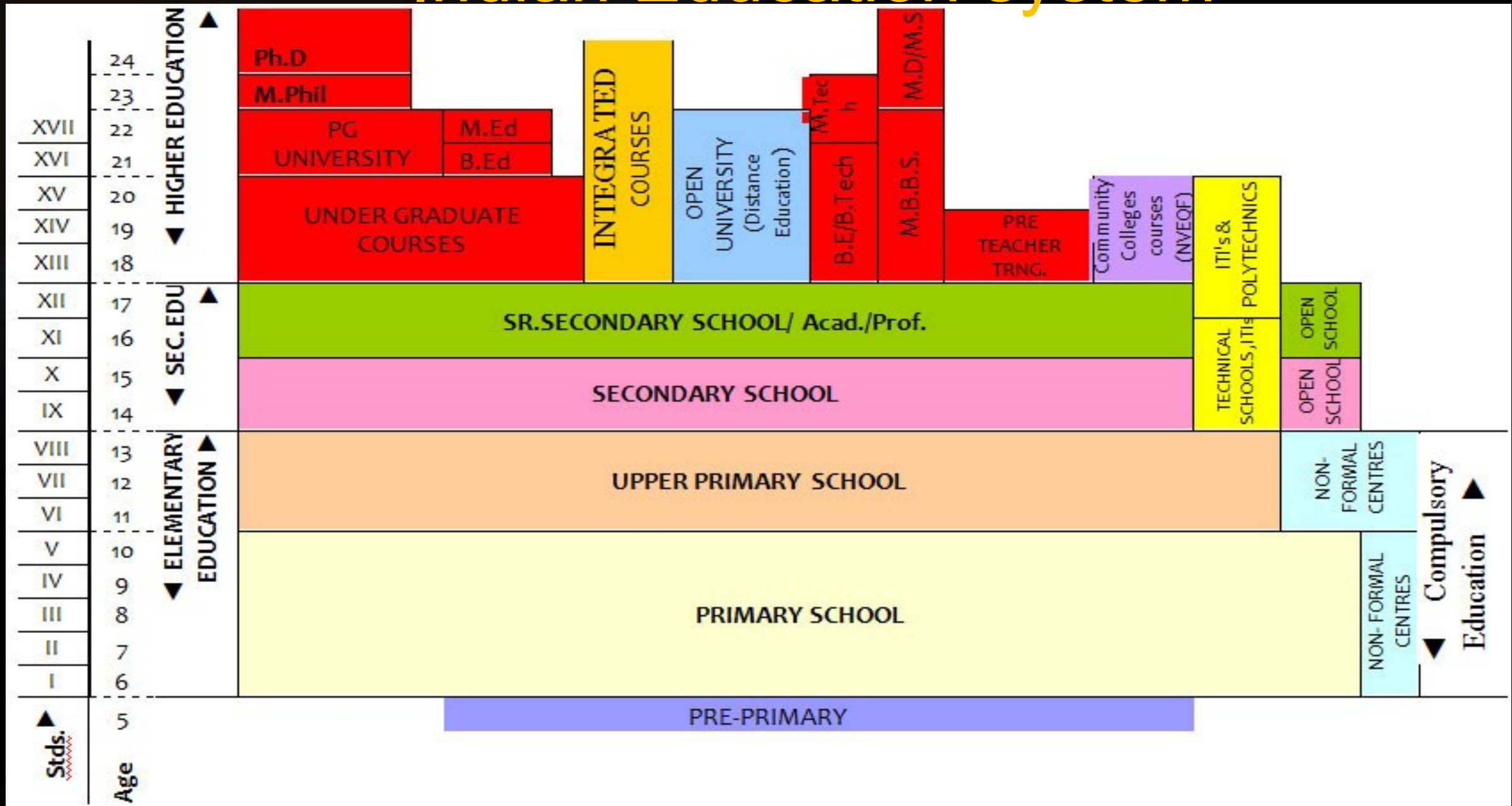
•**Hybrid Education** - Hybrid education allows students to pursue a combination of online and on-campus courses.

•**Online Courses** - they can also be taken in order to master a certain subject or specific skill.

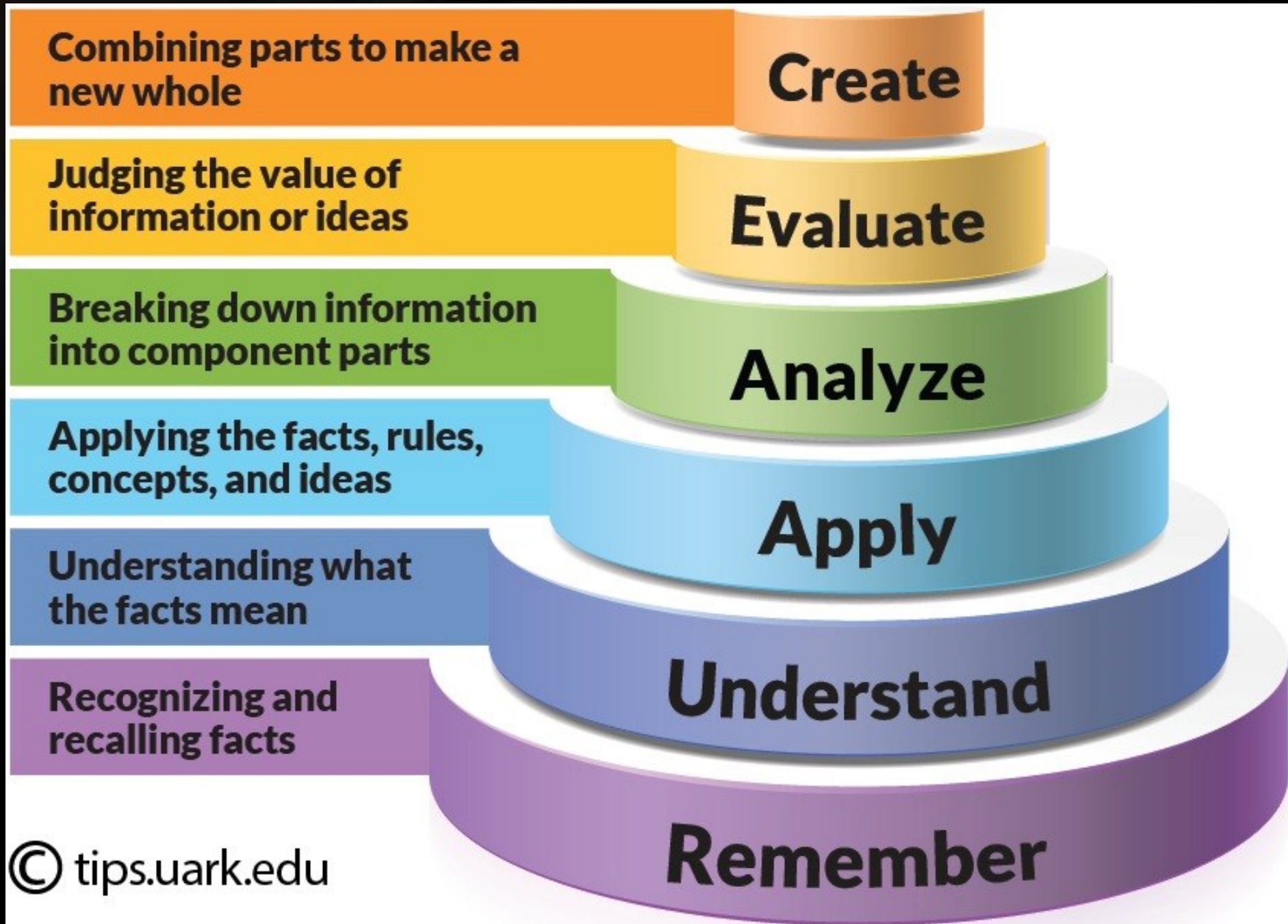
•**MOOCs** - MOOCs, or massive open online courses, are usually delivered in lecture form to online "classrooms" with as many as 10,000 people. Swayam ,NPTEL



Indian Education system



Blooms Taxonomy



Learning Patten of New Era

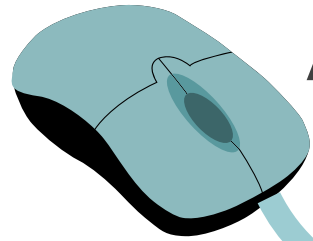
BOOKS :Content Here are kept in form of pen and paper .

Lost some time due to nature calamity, Space problem, Dust,

E-Books

Text are converted into Digital Form , Space problem resolved , all information explored and open to world

Multi-Media Book
E-Text with Audio, Visual Content with animation are incorporated .



Ancient Time



2000



2015



E-Learning



New way of Class

Distance Learning



- ✓ E-learning saves time and money.
- ✓ E-learning is consistent.
- ✓ E-learning offers personalization of choice of course. (credit)
- ✓ E-learning is scalable, Customized.

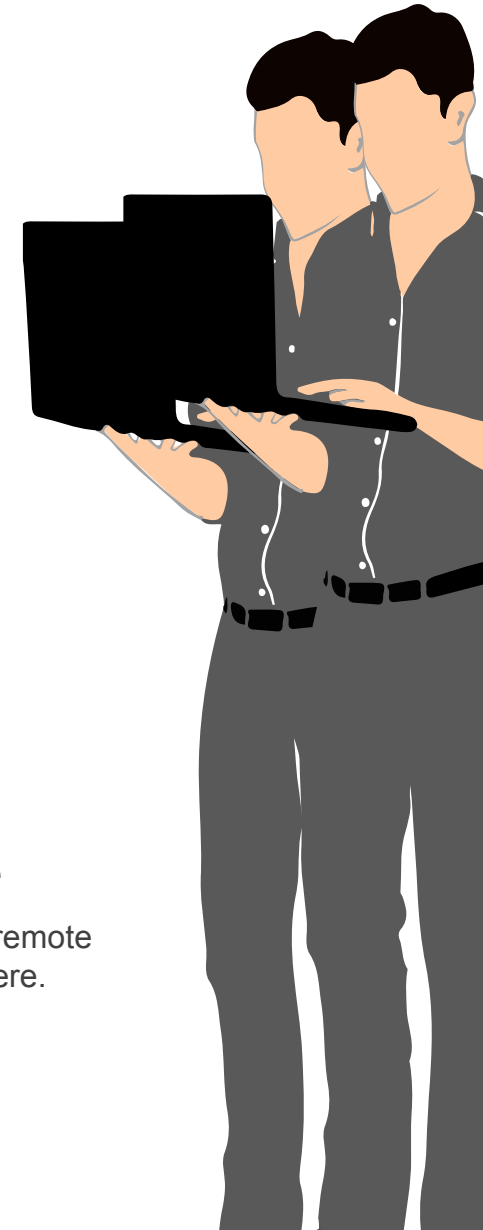
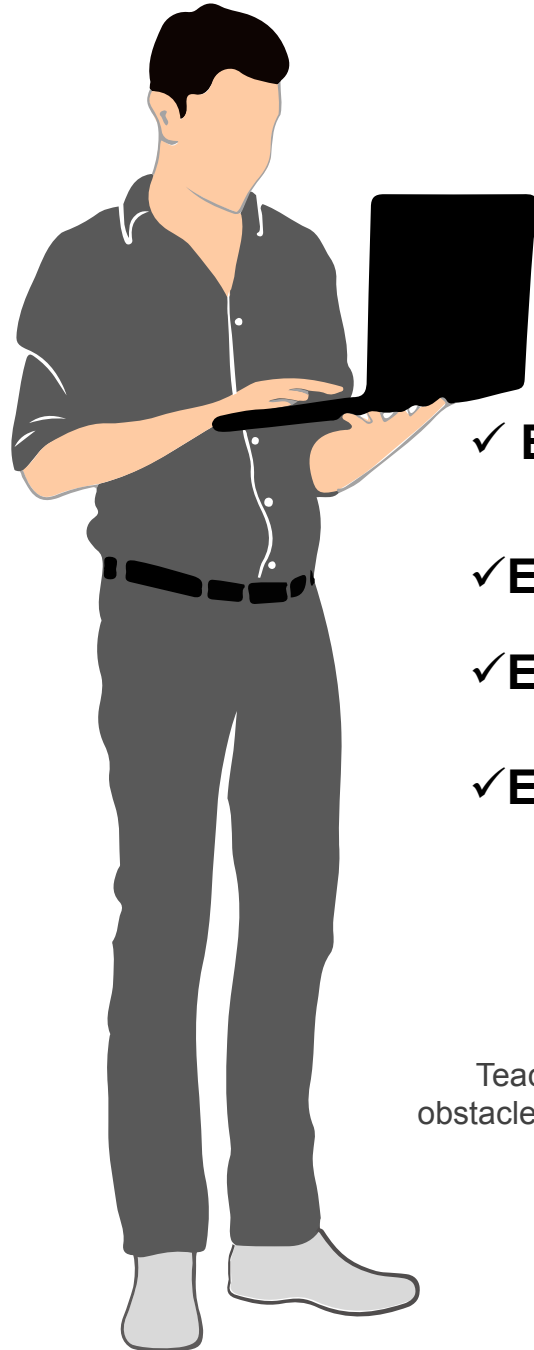
Teacher at Home

Teacher can overcome any kind of obstacle, module , arrange and set the course and kept on on cloud.

Online
Teacher

Student at Home

Student access content from remote using internet anytime anywhere.



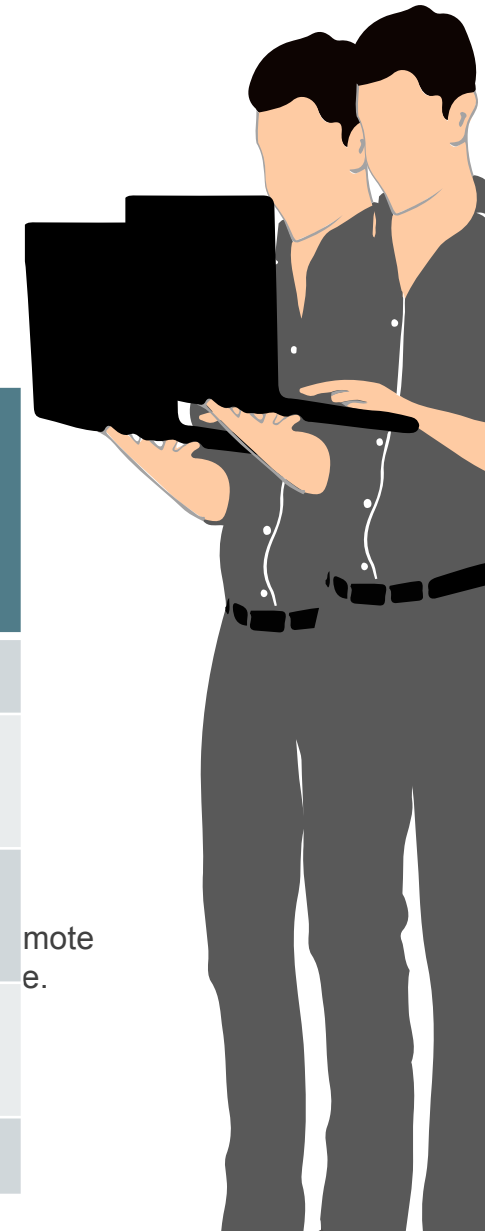
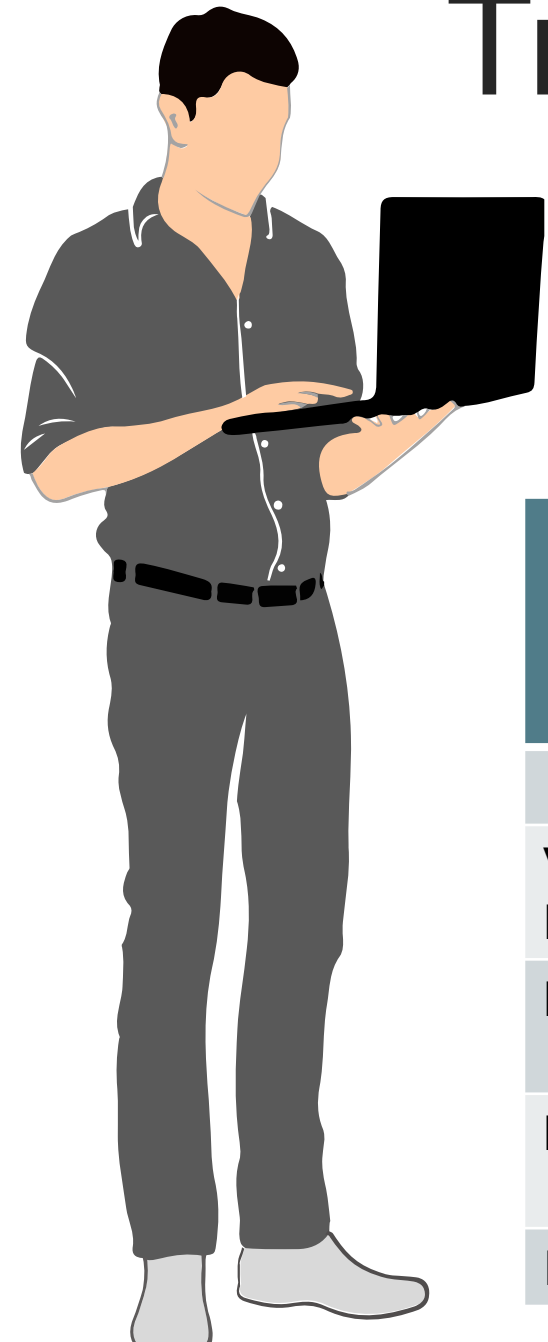
Traditional class VS E-Class

Distance Learning



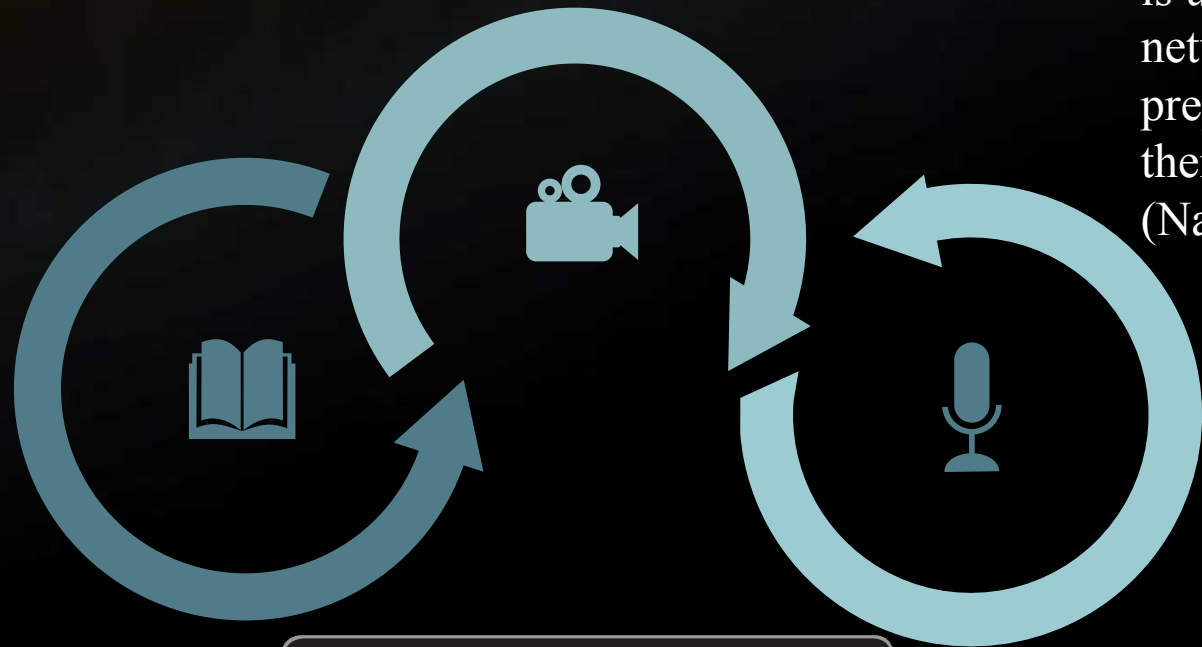
	Traditional class-E-Class	E-Class (60 student Batch)	E-Class(30 student 2 Batch)
In Class	3 hr	3 hr	3hr
Video Study at Home	NIL	1 hr	1hr
Problem solving	A very less time	2 hr	1 Hr (for each batch)
Monitoring	possible	Quiz & Assignment	Quiz & Assignment
Interactive	Instant	scheduled	scheduled

note
e.



Integrating Material as E-Content

Image + Audio + Video + Animation



e-content is form of digital literacy in educational settings and it is used to investigate the implications of new forms of social networking, knowledge sharing and knowledge building. It also preparing the learners in a more advanced manner and makes them to have a creative thinking in a learning methods (Nachimuthu, 2012).



G-DRIVE
Personal Archive with study Material



Link on WebServer
Institutional Archive

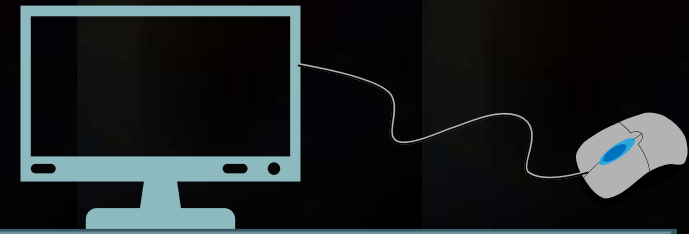


LMS
Institutional (Broad Aspect) Archive



Youtube
Open to all , Public Archive

E-Content



01 What is E-Learning

Purpose of **e-learning** is to allow people to **learn** for personal accomplishment or to earn a professional degree, without physically attending a traditional university or academic setting.

02 What is E-content ?

Digital text and images designed for display on web pages. E Content refers to which includes electronic versions of books, journals, maps, media, and archival materials that can be used for teaching and learning.

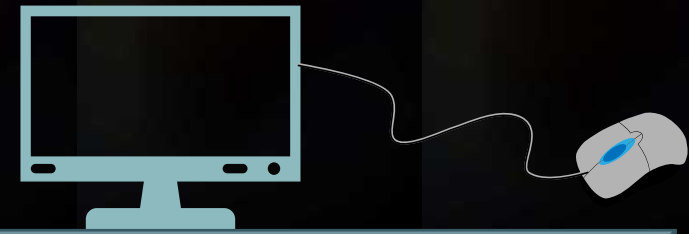
03 Relation with present Scenario

Though we are locked at Room and the environment is unknown to unseen we don't know when it becomes normal dur to pandemic covid-19 . But life never stops , knowledge , curiosity never ends , that make us to think or bound us to adapt the situation.

04 Types of E-Learning

computer-based e-learning and **internet-based e-learning** OR Interactive vs Non-interactive

E-Content



05 Comparison of Traditional VS E-Class

Need to re-think because of present situation and demographic position in society. So a comparison come traditional vs Flipped Class.

06 Area that we Focus of E-Content

Slide, Video, Image, Graph, Case Study i.e. a collection that generally we want to provide at class . Moreover a reference for further study or citation of my lecture can also be provided.

07 E-content Capturing (S/w & H/w)

Any content need to be convert into Digital Form. PowerPoint Presentation, Audio and Video Capture , Screen capture using some devices . We focus hare Power point -2016, OBS (Screen Capture).

H/W needed – A Laptop, Microphone, Bamboo Tablet

08 E-Content Editing (PC based)

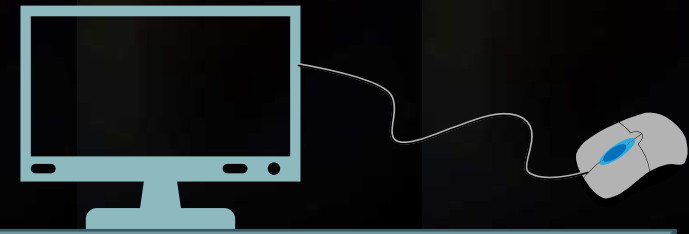
Installation of Software process(Step by Step)

Open shot - Video Editing , Inserting Text , Other s/w concept

Audacity - Audio Noise Removal, Gain

Annotation Tools & White Board – Google Keep, One Note

E-Content



09 Exporting E-content

E-porting a content always make peace of mind. Exporting file must be focus on devices, content ,bandwidth and other some constrain.

11 Uploading & Monetization

Uploading content at cloud , It may be G-Drive, LMS, YouTube. Live Interaction using meeting app. (Discussed on Day-1)

10 Creation of Quiz for Students

In-Video quiz , Assignments (inform of Google Form) must be incorporate.

12 Creating E-content Database

Simple Excel Sheet , Google form can be used for further organization.

13 Quiz on above 12 points

Simple Excel Sheet , Google form can be used for further organization.

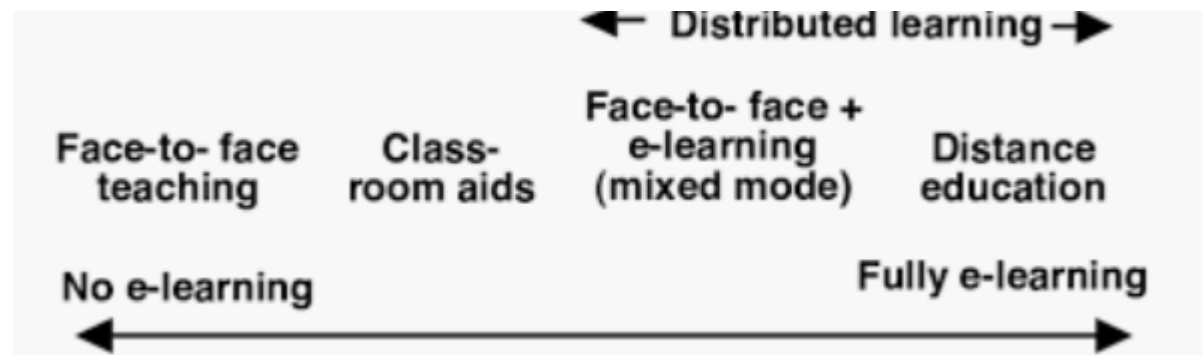
E-LEARNING

Monetization

1. How Quickly Students Start Classes
2. How Quickly Do Students Typically Finish The Whole Course
3. Time Spent On Individual Modules
4. Quiz Results (In-video / Out Video) in form of Google.



Bad Mobile addiction, hard to monitor for parents to monitor.



Study at Home
Any time , Any where
& Whenever you can



https://www.researchgate.net/publication/251966175_Online_Learning_Tools_and_Technologies/citation/download

E-Course

COURSE LAYOUT

S

Week 1: E-learning

Week 2: E-Content Design

Week 3: Content Authoring Tools

Week 4: Documentation & Presentation Tools

Week 5: Graphics & Animation

Week 6: Audio and Podcasting

Week 7: Online Video Creation

Week 8: Project Work: Development of E-Content

D

With all Week : Surveys/Polling/Quizzes/Assignment

MOOC

Definition :

Massive - enrolment numbers

Open - no mandatory qualifications

Online - fully

Course - structured

MOOCs is 3A's i.e., Anytime, Anyone, Anywhere.



Platform/Player Contributing

Nptel (AICTE) &
Swayam(UGC)

Edx:

Udacity:

MOODLE

YouTube : Unorganized



Swayam & NPTEL

COURSE LINK :

SWAYAM and NPTEL announce 414 *online courses and faculty development programme* in the forthcoming session July - December, 2020. Please check the following link for further details.

[Tentative Course List, July, 2020](#)

1. MOOC Platform by MHRD
2. Massive courses across all subject domain
3. Courses from School to University
4. Certificate / Credit (Transfer)

COURSE CERTIFICATE

Certificate is provided under the assigned rules of Authority

Internal Assessment - 30%

(Assignments, Online quiz, Active participation in Discussion forum, Change Project)

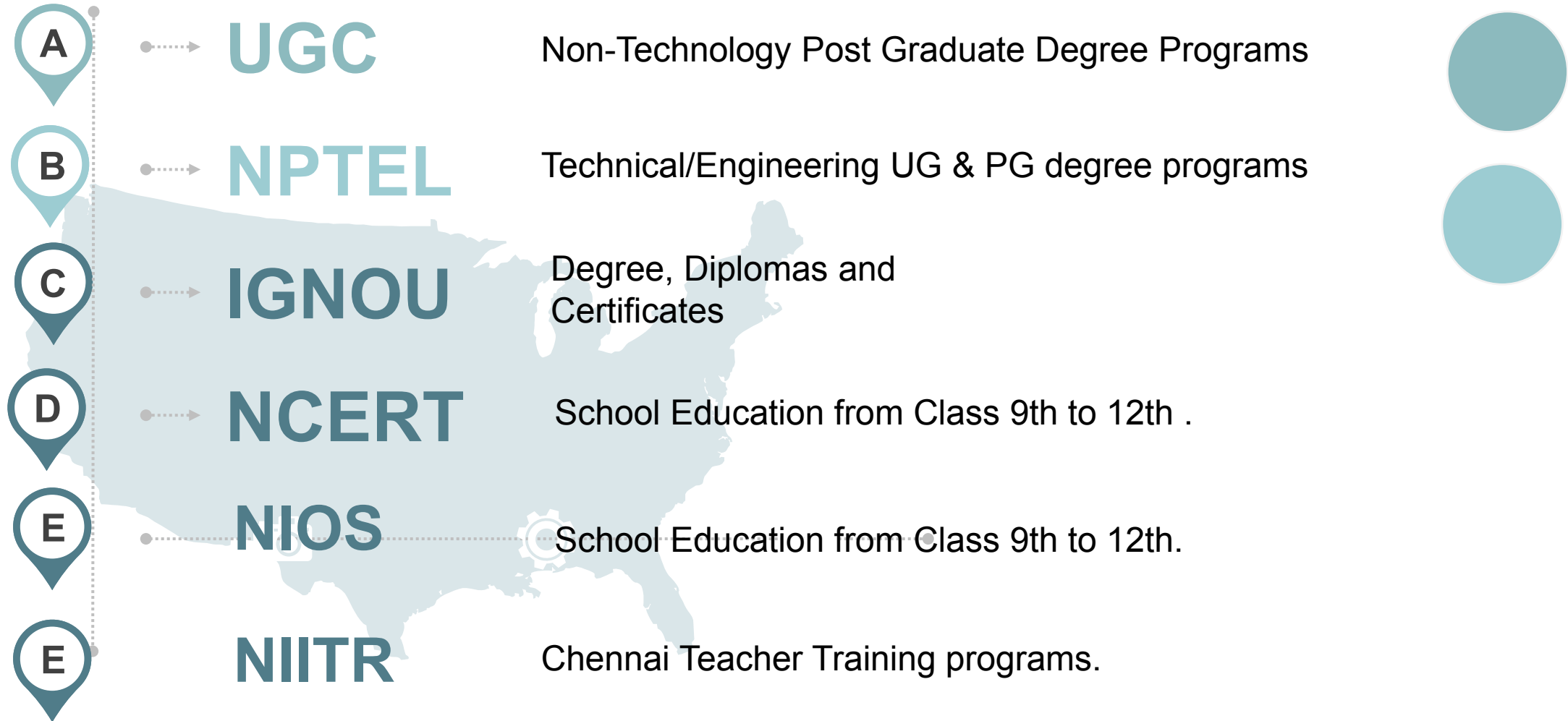
+

Final Examination - 70% (Proctor Examination)

Indian E-content Archive

1. UGC
2. CEC
3. IGNOU
4. NPTEL
5. NCERT
6. NIOS
7. IIMB
8. NITTTR

National MOOCs Contributor



LMS

Learning Management System (or LMS) is a broad term used to describe software tools designed to manage user learning interventions and provide access to online learning services for students, teacher, and administrator.

- ✓ Managing users, courses, roles, and generating reports.
- ✓ Making a course calendar.
- ✓ Messaging and notifications.
- ✓ Assessments that can handle pre/post testing.
- ✓ Certification and display employees' score and transcript

RULES TO FOLLOW FOR A LMS

INSTRUCTION
ANNOUNCEMENT
ENROLLMENT (TIME BOUNDED / FREE)
UPLOAD CONTENT
IN-VIDEO QUIZ
ASSIGNMENT
EVALUATION
+
MANAGEMENT AT INSTITUTIONAL LEVEL

Example :

<https://bodhitree.com/>

Service Provider:

G-Cube

IPIX

Customized Web provide

You can also create your own also by WordPress

YouTube

Build a playlist of your favourite videos.
Embed videos and playlists.
Videos with captions.
Create and edit annotations.
YouTube search tips with recommendation.

Build a playlist of your favorite videos.

Embed videos and playlists.
Videos with captions.

Create and edit annotations.

YouTube search tips with recommendation.

Just search anything

Passion

Monitoring

For all level & all class

Google help

Review recommendation

Publishing E-module



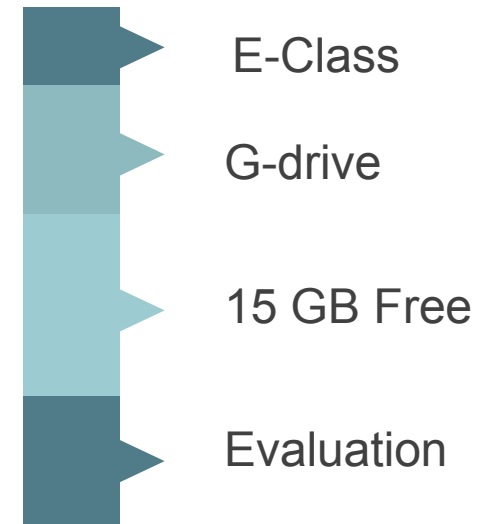
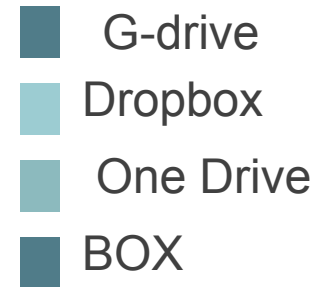
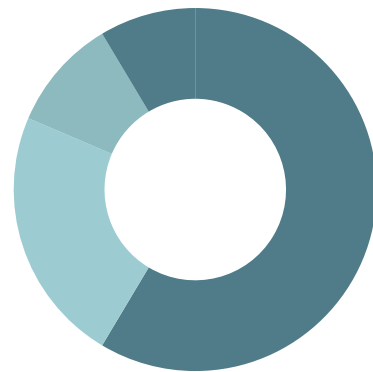
Link

[Drive.google.com](https://drive.google.com)

System Requirement :

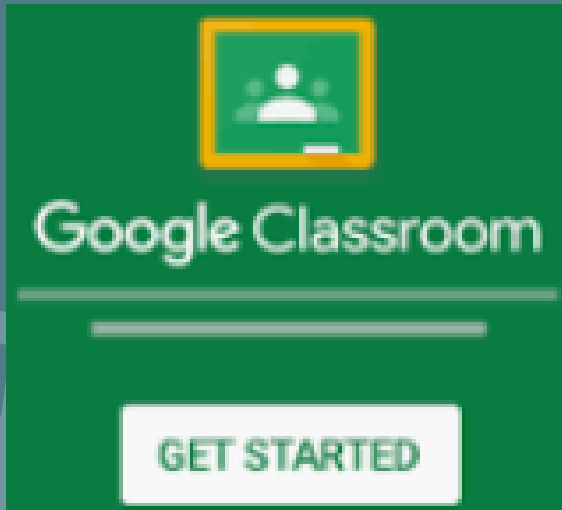
No boundary

G-Drive/LMS



- Google Docs
- Google Sheets
- Google Slides
- Google Forms
- Google Drive for Work
- Google Cloud Platform
- Google Apps for Education
- Google Apps for Government
- Google Business Solutions

Creating A G-Class

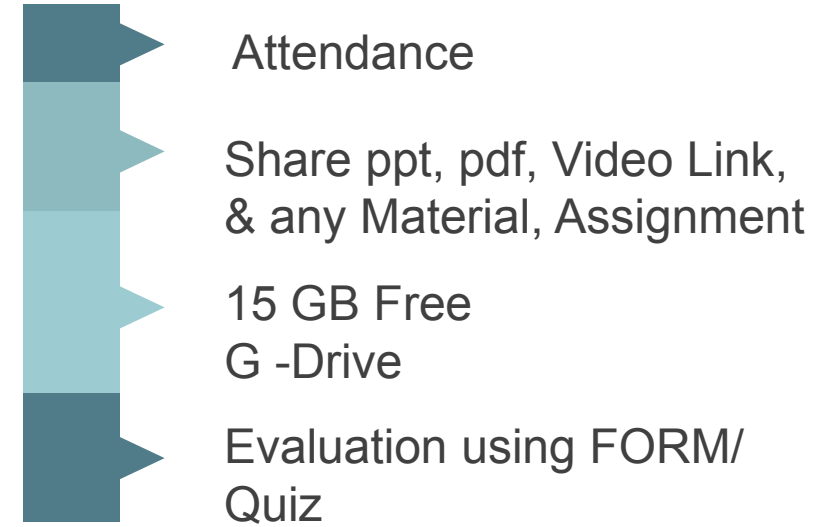


Link
Class.google.com

System Requirement :
Internet

Semester wise Class

- Reuse
- Collaboration
- Scheduling
- Planning



<https://classroom.google.com>
<https://drive.google.com/drive/my-drive>

Screen Capturing S/W



Link

<https://obsproject.com/>

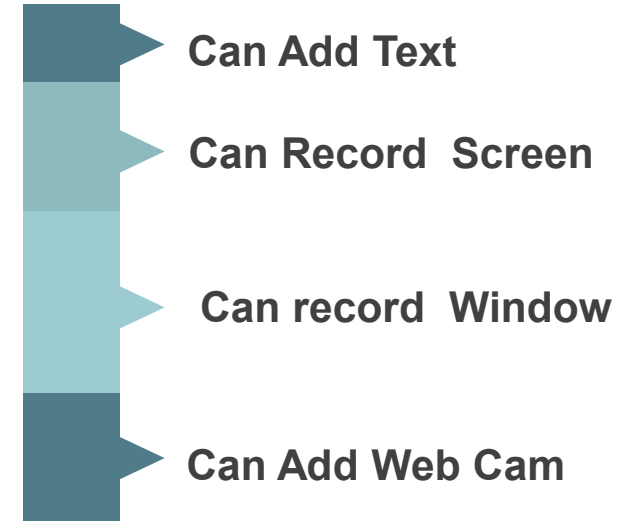
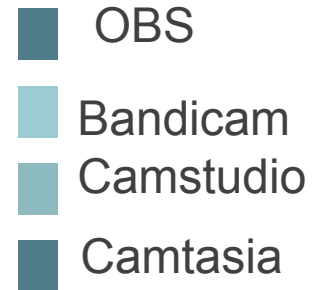
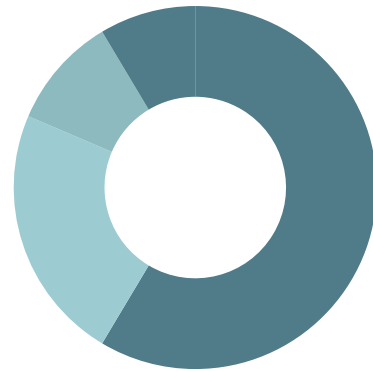
System Requirement :

Any Simple Machine .

OS : Windows/Linux/MAC.

Free Open Source

OBS



Work Experience

Create mp4 Files

A little bit WEBCAM problematic

Streaming to directly to youtube

Advantages of distance learning

1. **You can pursue a job along with studies:** learn while you earn!
 2. **You can save money.**
 3. **You save time:**
 4. **You can learn at your own pace:** self-disciplined and self-motivated, Some students are too shy to raise their doubts in class.
 5. **You can study whenever, wherever:**
 6. **Gaining recognition among employers:**
- But there's a flip side to every story.

Disadvantages of distance learning

- 1. Chances of distraction high:** no faculty around for face-to-face interaction and no classmates You need to keep yourself motivated and focused.
- 2. Hidden costs:** a computer and Internet connection. printer, a web camera and so forth.
- 3. Complicated technology:** if not tech savvy, his learning experience can be dissatisfactory.
- 4. Quality of faculty compromised due to technology.**
- 5. Questionable credibility of degrees:** still a lot of fraudulent and non-accredited degrees being offered.

Reference :

1. E-PG Pathshala : <https://epgp.inflibnet.ac.in/>

2. Mooc : https://swayam.gov.in/nc_details/NPTEL

3. NPTEL : <https://nptel.ac.in/>

3. Khans academic / Vedanta/

4. Channel: YouTube / TV

5. N-list : <https://nlist.inflibnet.ac.in/veresources.php>

6. UGC : <https://www.ugc.ac.in/>



THANK YOU

Let think in different way