



## **Criteria- II: Teaching Learning and Evaluation**

### **2.3.2 Teachers use ICT enabled tools including online resources for effective teaching and learning process**

#### **ICT tools used by faculties**



Use of ICT-enabled tools for Teaching, Learning and

Evaluation 2017-2022

Department of CHEMISTRY

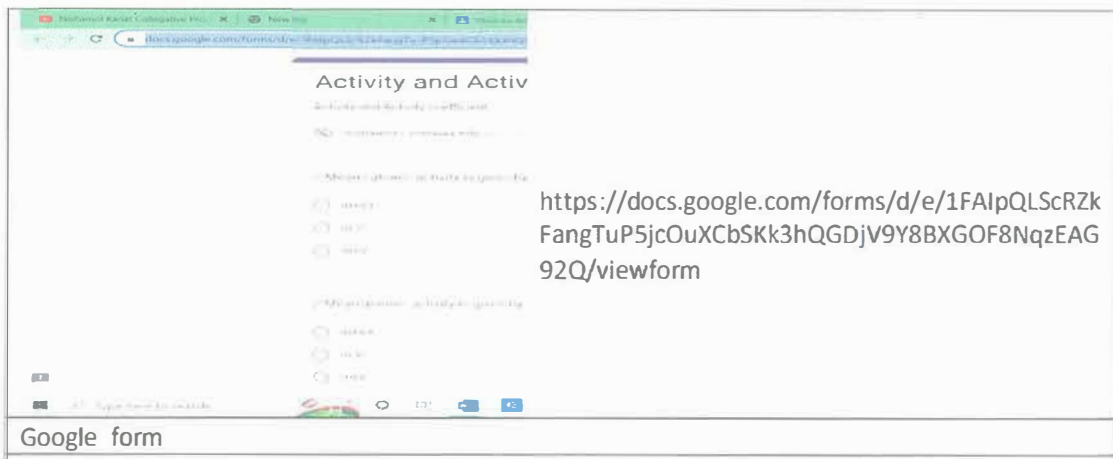
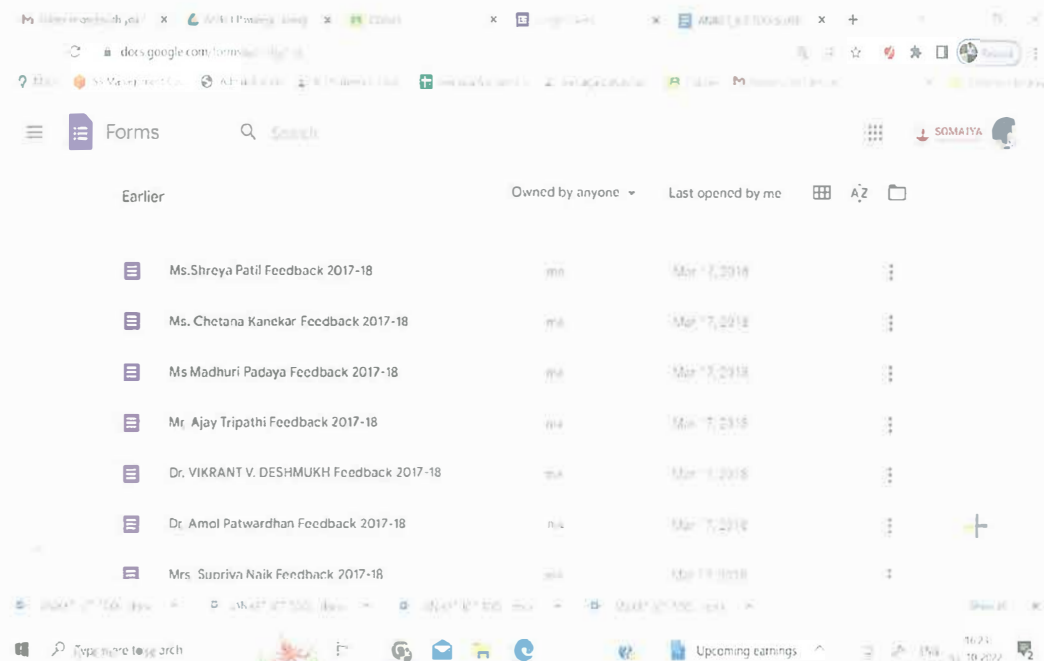
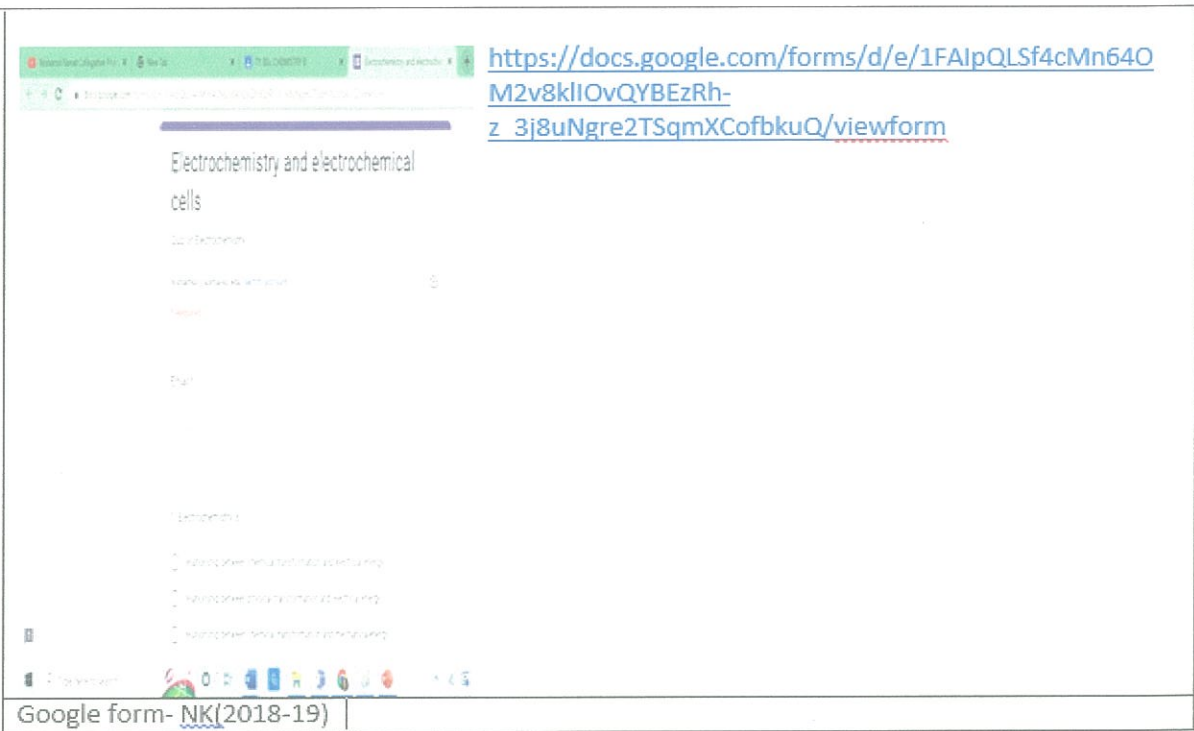


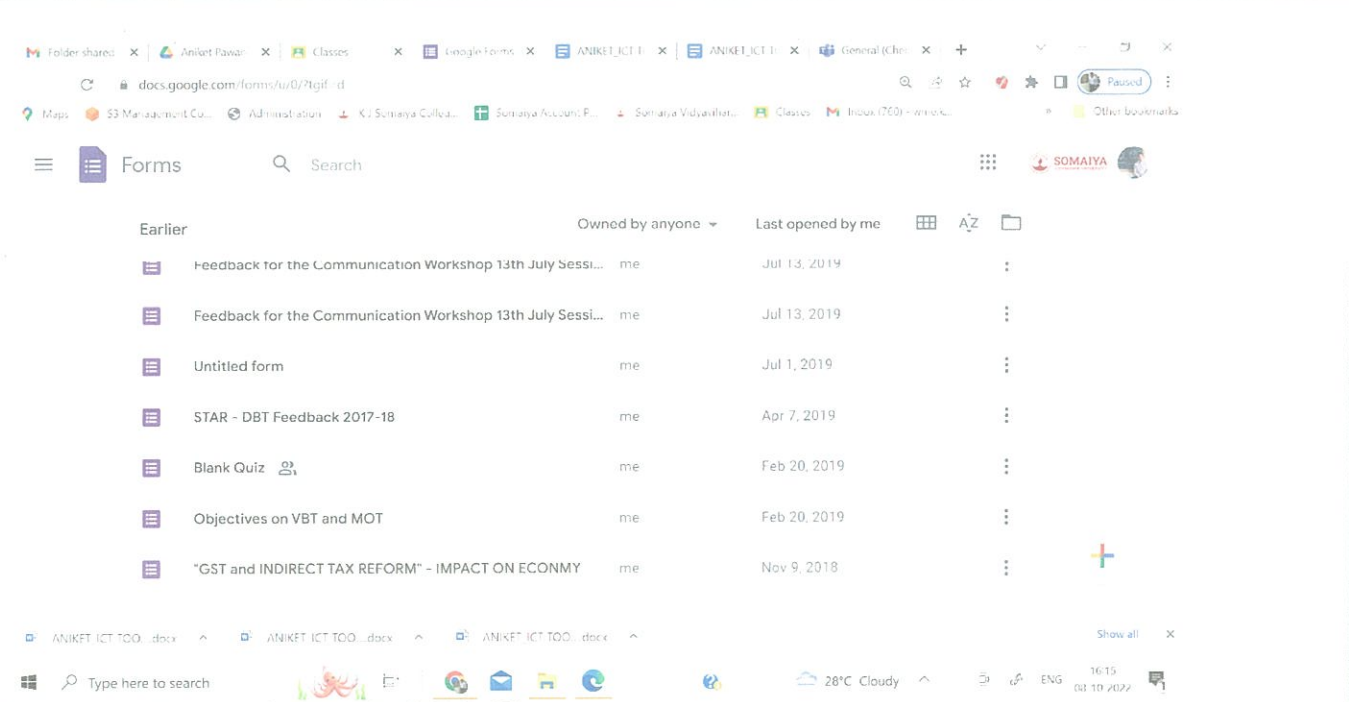
Image of Google form for TYBSc class for internal exam (2017-18)



Google form for feedback purpose (2017-18)



**Image Google Form TYBSc 2018-19**



**Image Google form for TYBSc (2018-19)**

*[Signature]*  
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**Solutions of Electrolytes**

1. In electronic conductor, the electric current is due to

- flow of electrons
- movement of ions
- movement of electrodes

2. In electrolytic conductors, the current involves

- flow of electrons
- movement of ions

[https://docs.google.com/forms/d/e/1FAIpQLSd7A1\\_8CCOcBx-XtlcS4qLUJOzJzFsqYf5nFGm7ldJ7zXr2D2Q/viewform](https://docs.google.com/forms/d/e/1FAIpQLSd7A1_8CCOcBx-XtlcS4qLUJOzJzFsqYf5nFGm7ldJ7zXr2D2Q/viewform)

### Google form For TYBSc (2019-20)

Earlier	Owned by anyone	Last opened by me
POLYMER MECHANISM & ITS KINETICS: TEST 03	me	15 Dec 2020
POLYMER'S M.W. & ITS ANALYSIS: TEST 02	me	25 Oct 2020
M.Sc. (II): PHYINORG/ANA CHEMISTRY 2020-2021 [PA...	AMOL PAWAR	21 Oct 2020
Advance Diploma Course in Instrumental Analysis	Chitra Kamath	13 Oct 2020
Feedback Form 'Role of mentor'	CHEITANA KANEK	16 Sept 2020
TYBSc Subject aptitude test 21-22	SONIYA SHETTY	-
Copy of SYBSc Subject Aptitude test Microbiology 20...	SONIYA SHETTY	-
Copy of Question Paper (Slow & Advanced Learners)	AMIT DIXIT	-
Faculty Profile Department of Chemistry	ANIKET PAWANDJI	-
Copy of SYBSc Botany Advance-Slow learner test 16-7...	KETAN THATTE	-

Google form for FYBSc, SYBSc, TYBSc, MSC II (2020-2021)

*Anisha*  
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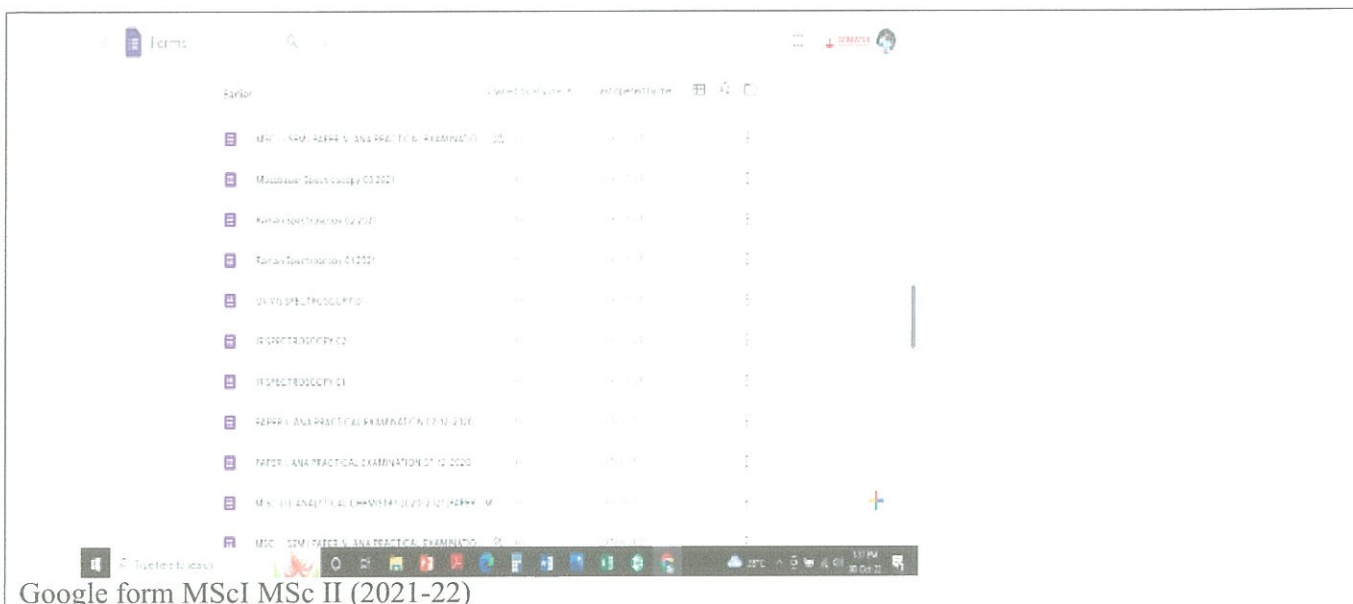







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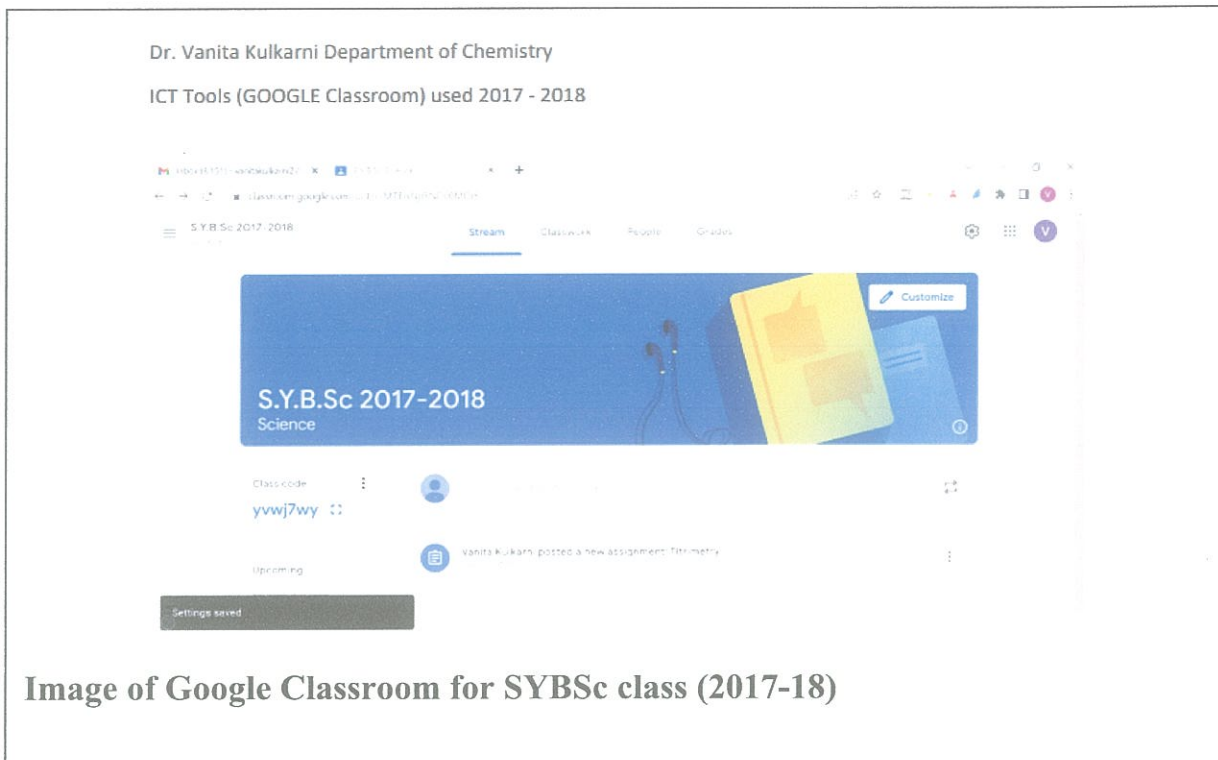


Google form MScI MSc II (2021-22)

**Google Form:** A teacher could design a quiz/ test taking into consideration the difficulty level of the course and paste a shortened link of the course on an appropriate platform which is accessible to the learner. Institute has subscription at campus level to the Google Workplace.

  
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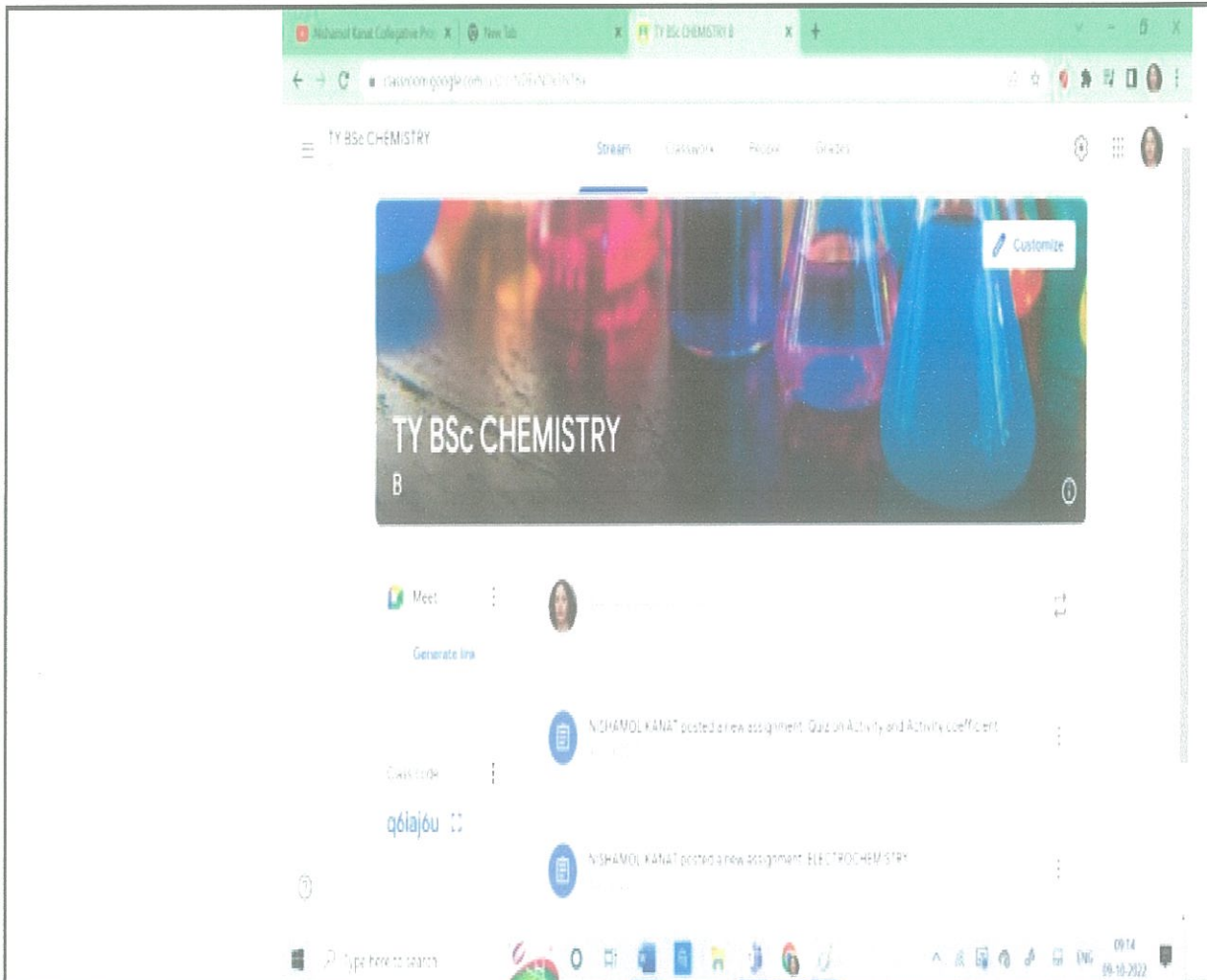






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## Google Classroom -TY BSc (2017-18)

Google classroom TYBSc (2017-18)

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TRUST

The image displays two screenshots of a Google Classroom interface. The top screenshot shows a class titled "S.Y BSc. Chemistry B Div." with a class code of "y66qm7v". The bottom screenshot shows a class titled "S.Y. B.Sc. Chemistry C Div." with a class code of "3tzevyu". Both screenshots show the class name, division, class code, and a "Generate QR" button. The interface also includes a "Stream" tab and a "Customize" button. The background of the top screenshot features laboratory glassware, while the bottom screenshot features an open book.

**Google Classroom -SY BSc (2017-18)**

**Google classroom SYBSc (Div B & C) (2017-18)**

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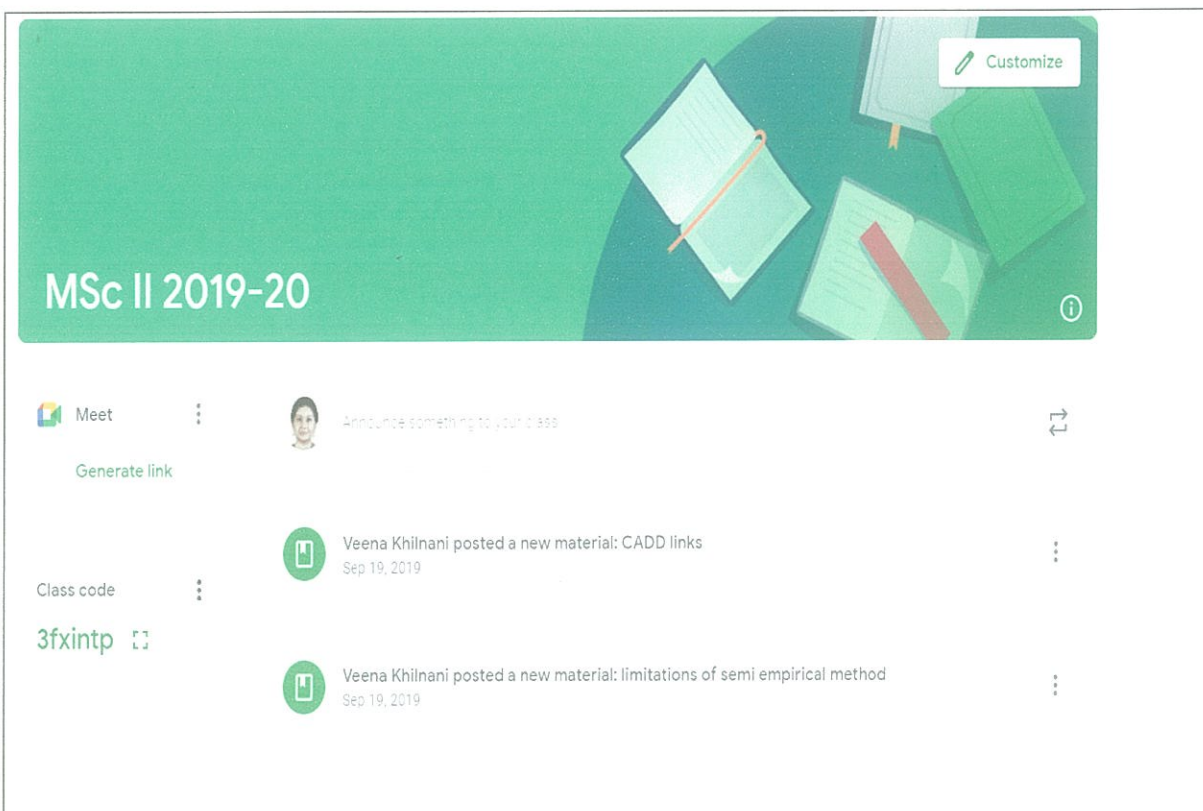
Google classroom For MSc II (Inorganic chemistry) (2017-18)

Google classroom for SYBSc Div C 2018-19

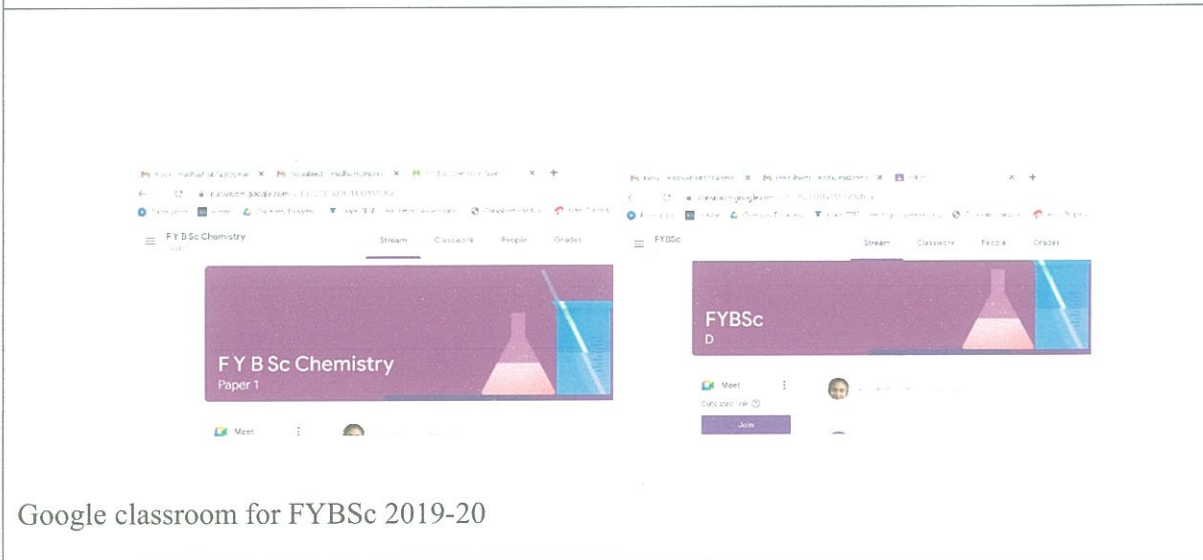
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Google classroom for MSc Part II Organic chemistry 2019-20



Google classroom for FYBSc 2019-20

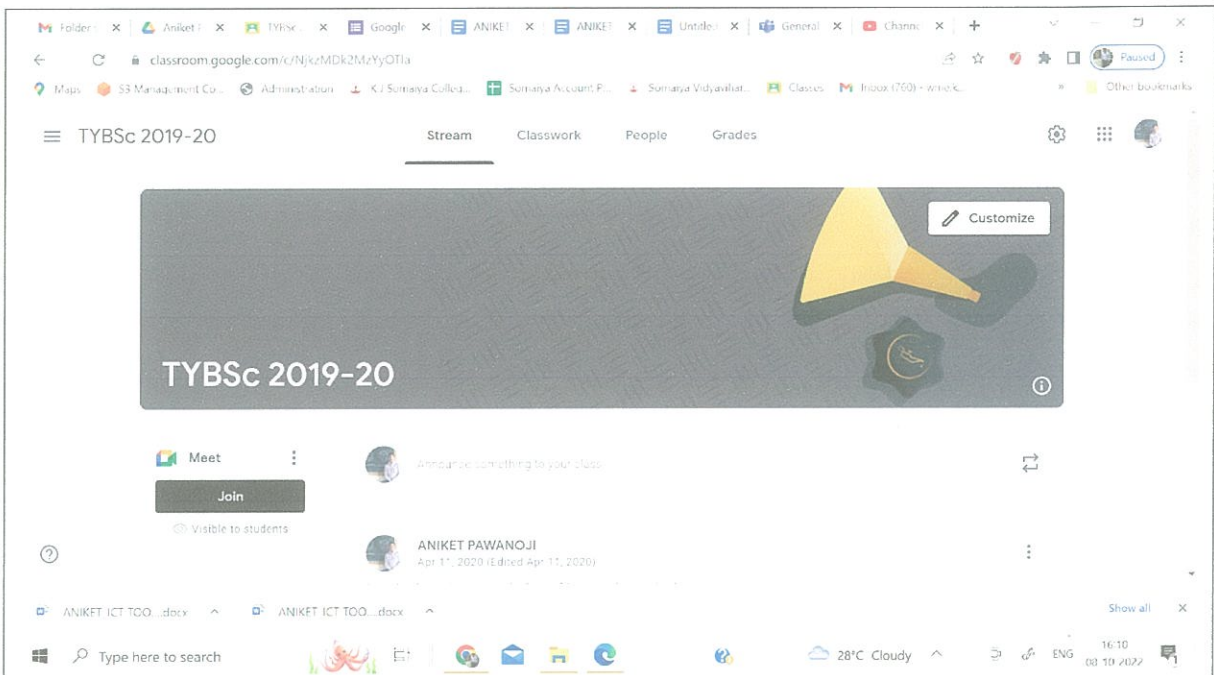
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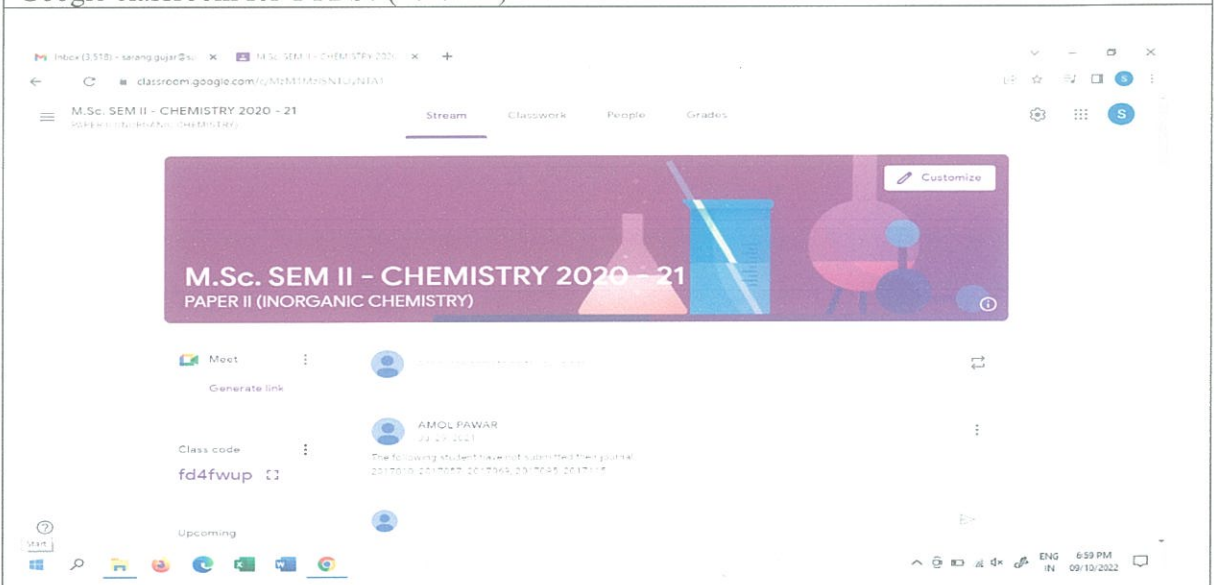


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Google classroom for TYBSc (2019-20)



Google Classroom for MSc Part II Inorganic chemistry (2020-2021)

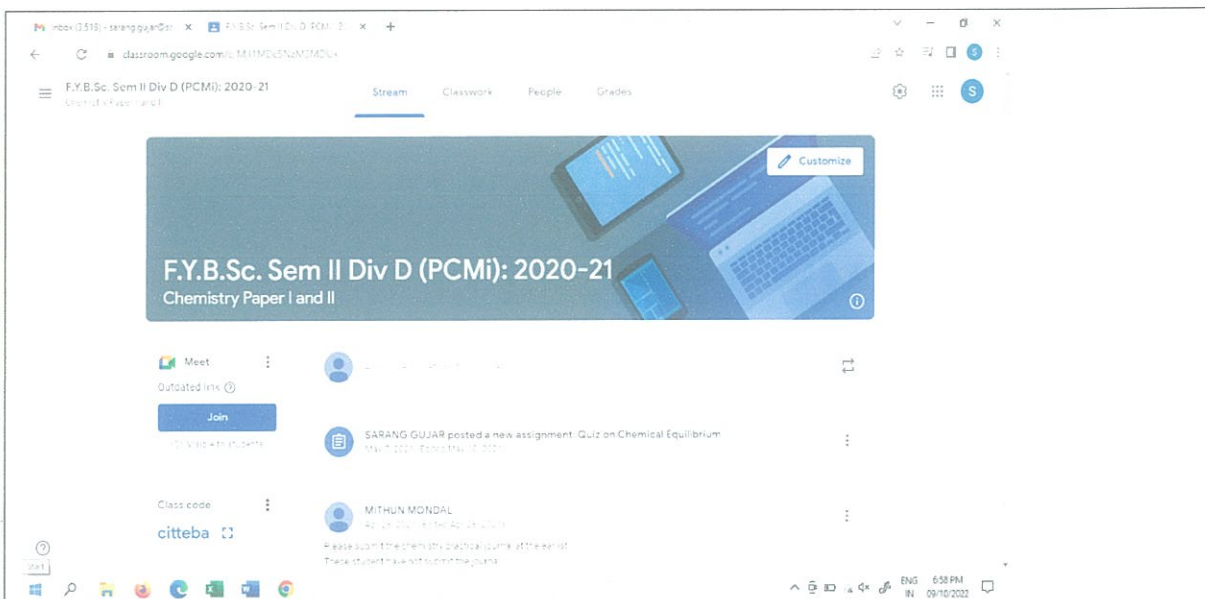
  
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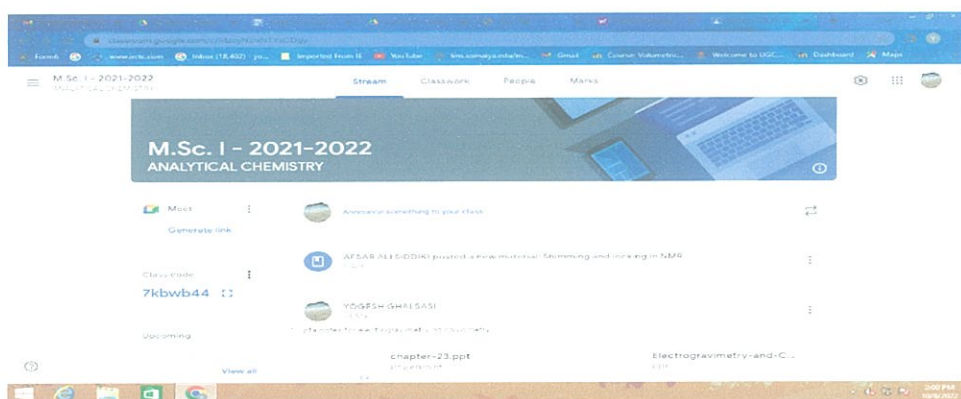


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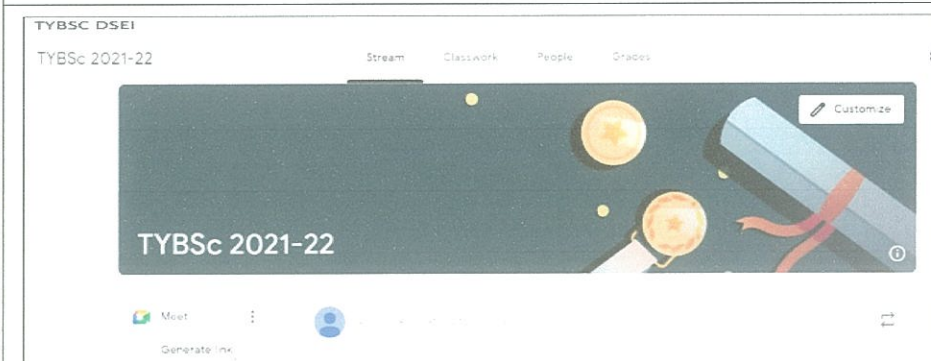
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Google classroom for FYBSc Div D (2020-2021)



Google Classroom for MSc Part I (2021-2022)



Google classroom For TYBSC (2021-22)

*[Signature]*  
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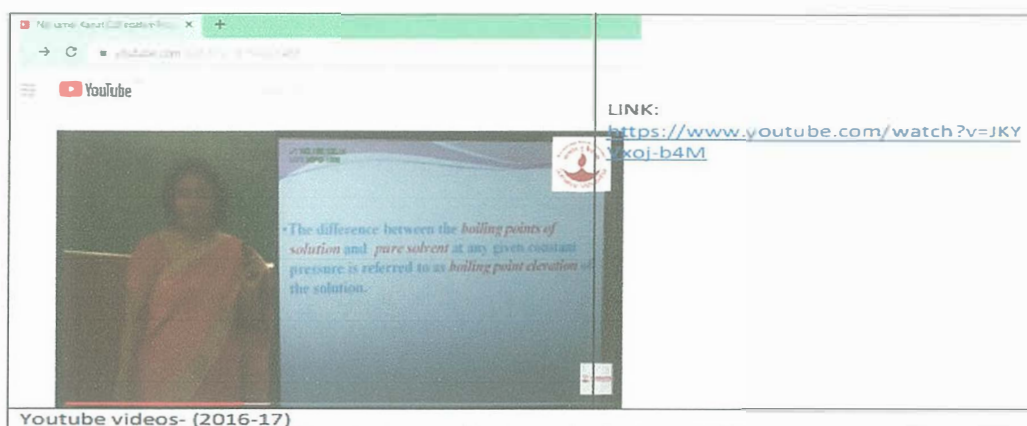






**Google Classroom:** It served as an online blended learning platform which is developed by Google for educational institutes with an intention of simplifying, creating, distributing and grading assignments. It facilitated storage of enormous data/files in drive associated with classroom and enabled faster retrieval of the data. There were tools available for uploading and assessment of the Assignments. Institute has subscription at campus level to the Google Workplace.

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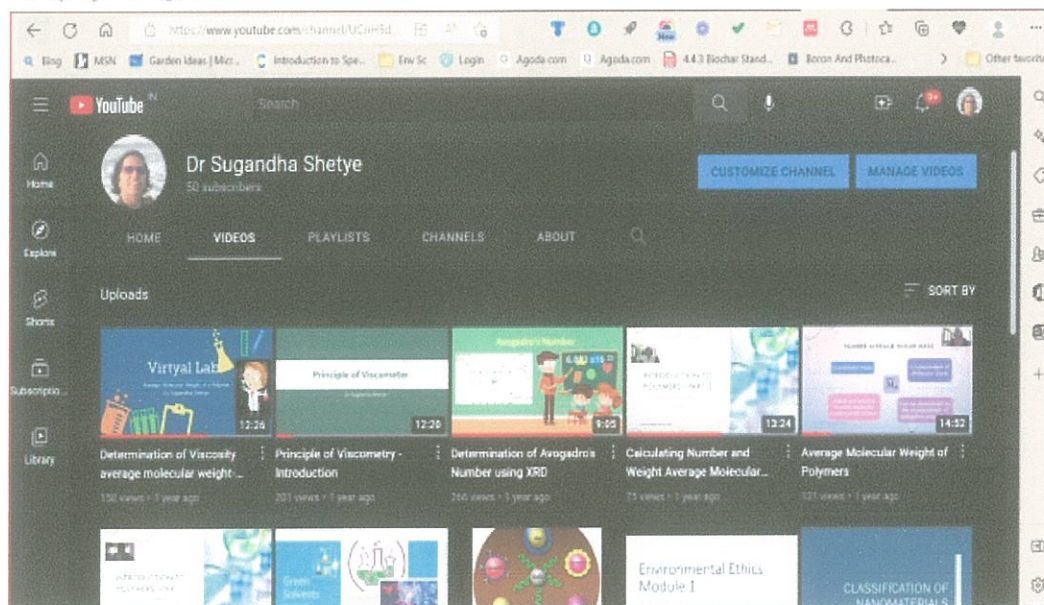


**YouTube Video for TYBSc class**

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## ▷ YOU TUBE



YouTube Video TYBSc (2021-22)

**You Tube video:** It is a free and easily available. Faculties from chemistry department have uploaded video on you tube which student can easily access.

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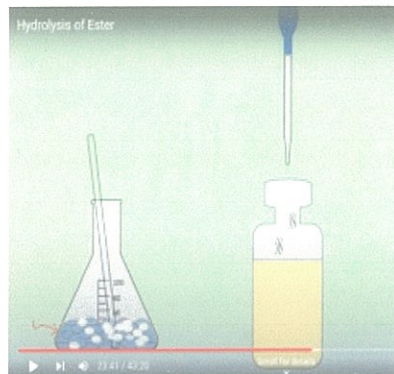


Prepared animated videos for organic chemistry experiments for online practical

<https://www.youtube.com/watch?v=f2YPhw94P0Y&t=1412s>

<https://www.youtube.com/watch?v=oiGJjNwMomU&t=1650s>

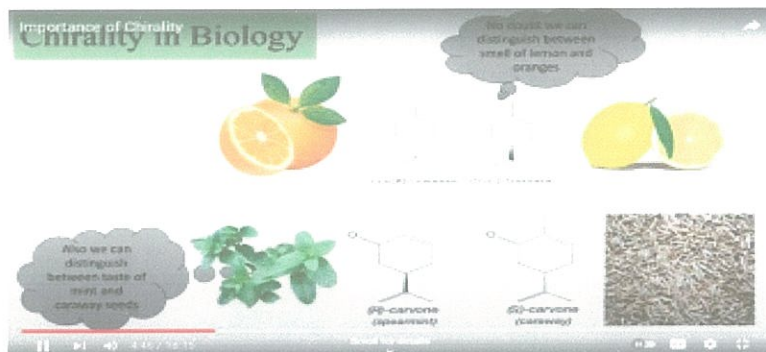
<https://www.youtube.com/watch?v=ew9ohmfWkK0&t=873s>



YouTube Video for FYBSc/SYBSc (2021-22)

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Youtube Videos <https://www.youtube.com/watch?v=vqFSd7quilo>

YouTube Video for MSc Part II Organic students (2020-2021)

Video	Visibility	Restrictions	Date	Views	Comp
Bonding in Coordination compounds L...	Public	None	Dec 19, 2020	3,486	
Chemistry of Coordination Compound	Public	None	Dec 17, 2020	198	
Chemistry of Coordination Compound	Public	None	Dec 16, 2020	191	
Chemistry of Coordination Compound	Public	None	Dec 16, 2020	274	

YouTube video for TYBSc (2020-2021)

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YouTube Video for TYBSc (2020-2021)

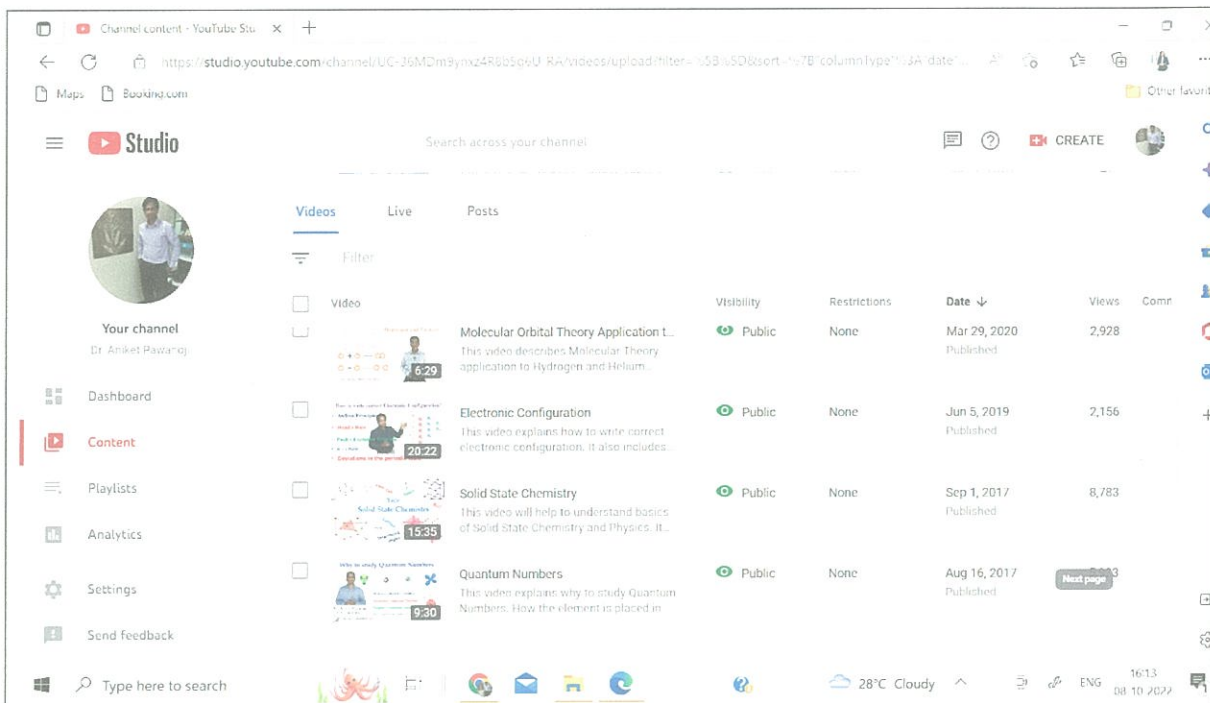
The screenshot shows a YouTube video player with a diagram of a Lithium Ion Cell. The diagram is split into two parts: 'discharge' and 'charge'. In the 'discharge' part, lithium ions (Li+) are shown moving from the anode (labeled 'anode' and 'carbon etc.') to the cathode (labeled 'cathode' and 'transition metal oxides LiCo, LiMn, LiD'). In the 'charge' part, lithium ions are shown moving from the cathode back to the anode. The video title is 'Lithium Ion Cells' and it is by 'Nishant Khar'. The video player interface includes a play button, progress bar, and various controls. The browser tabs and address bar are also visible.

YouTube Video for TYBSc (2020-2021)

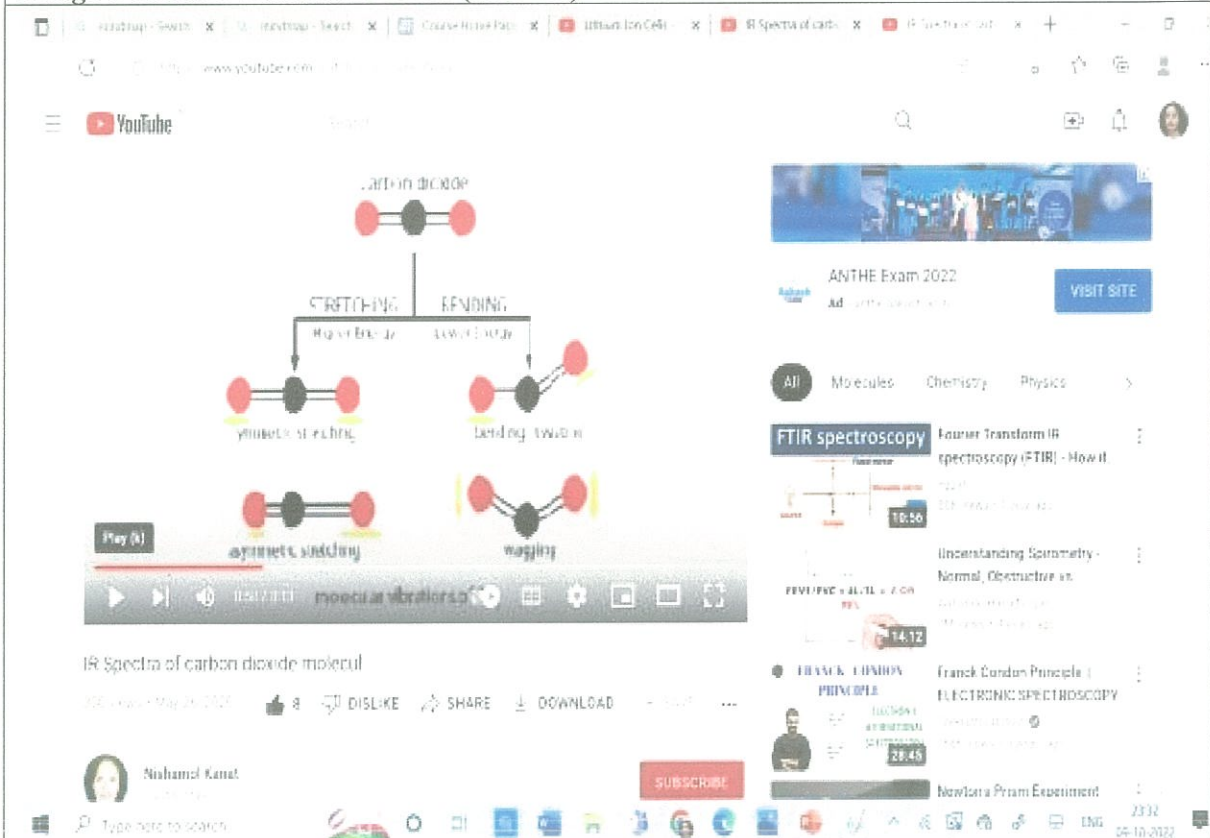
*Ansh*  
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**Image YouTube video for TYBSc (2019-20)**



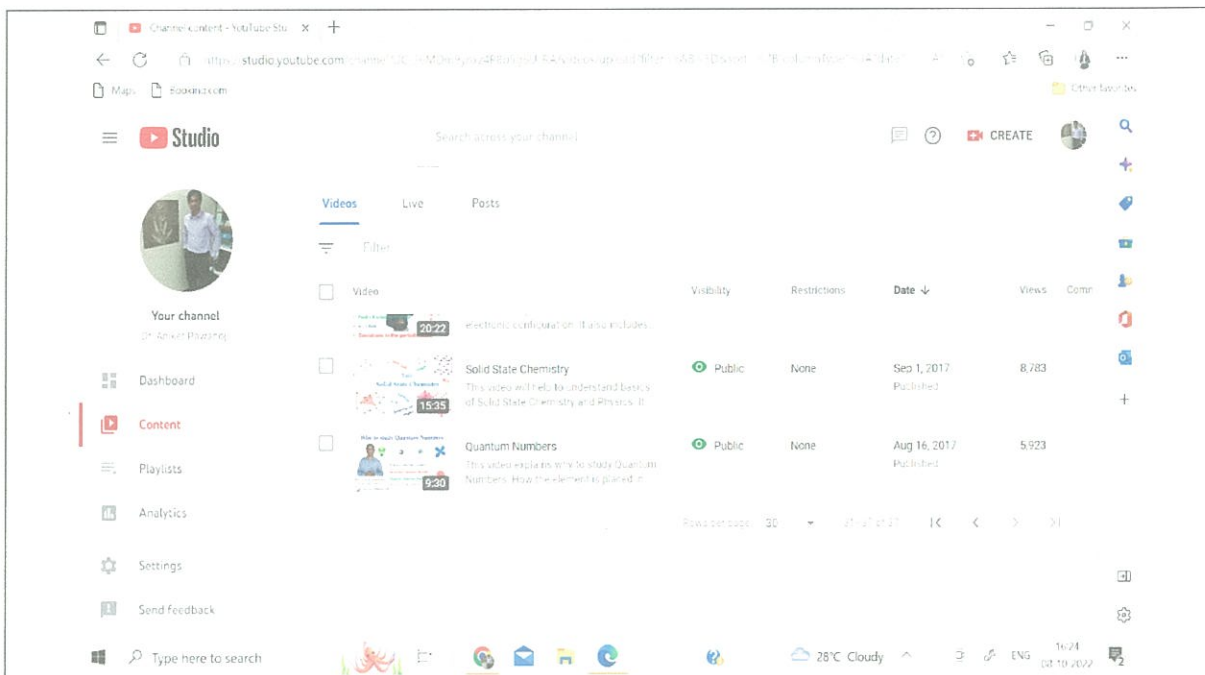
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YouTube Video for TYBSc class 2017-18

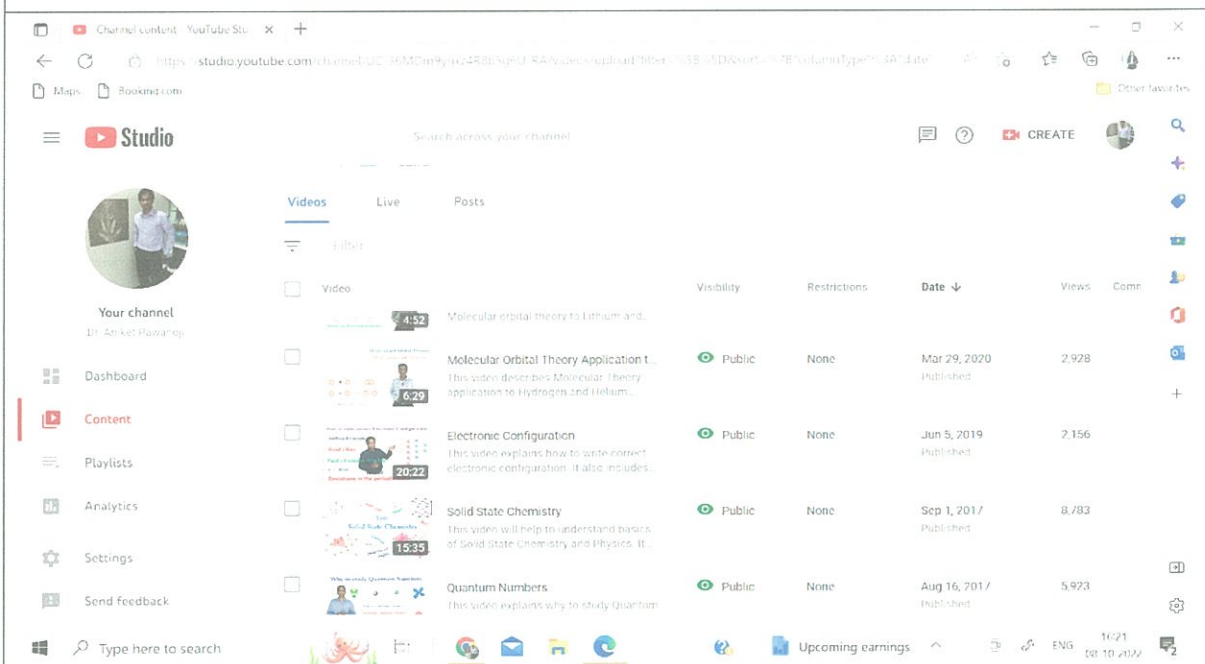


Image YouTube video for TYBSc (2018-19)

*Pruthi*  
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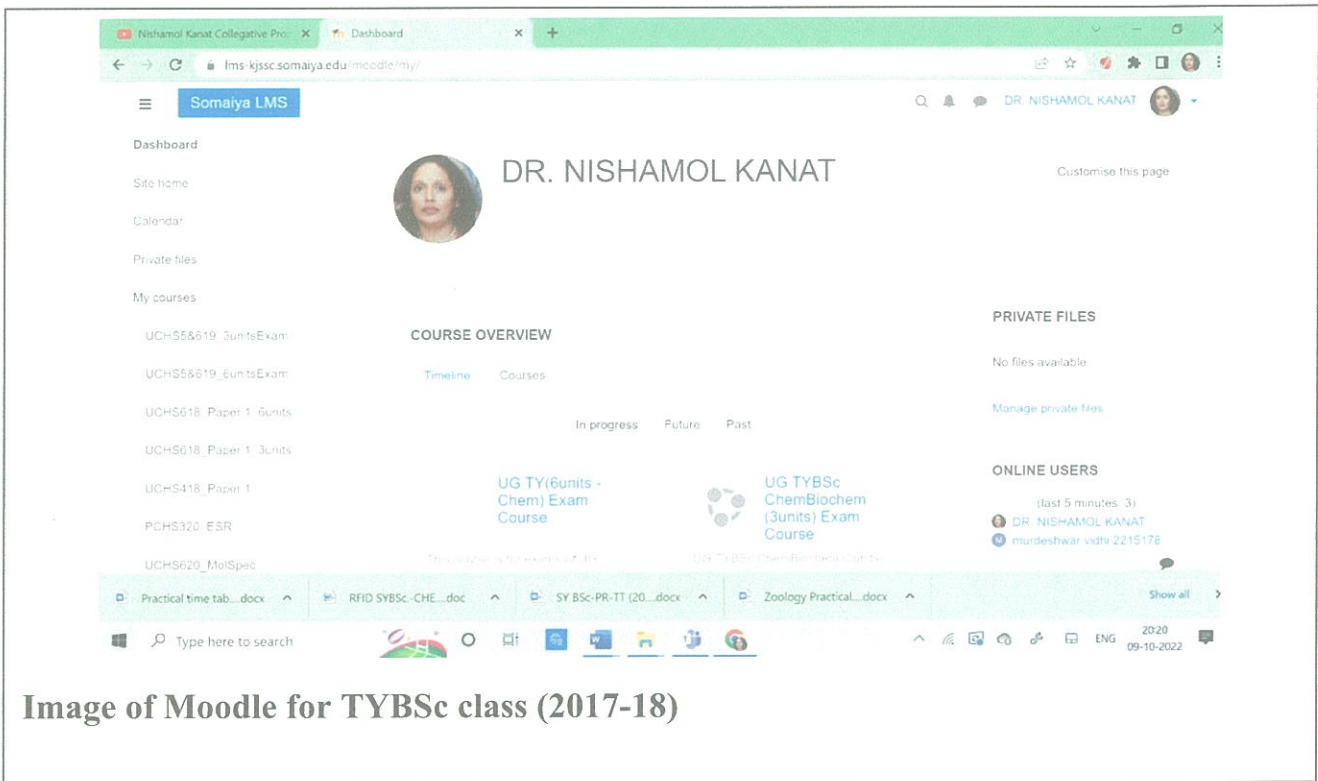


Image of Moodle for TYBSc class (2017-18)

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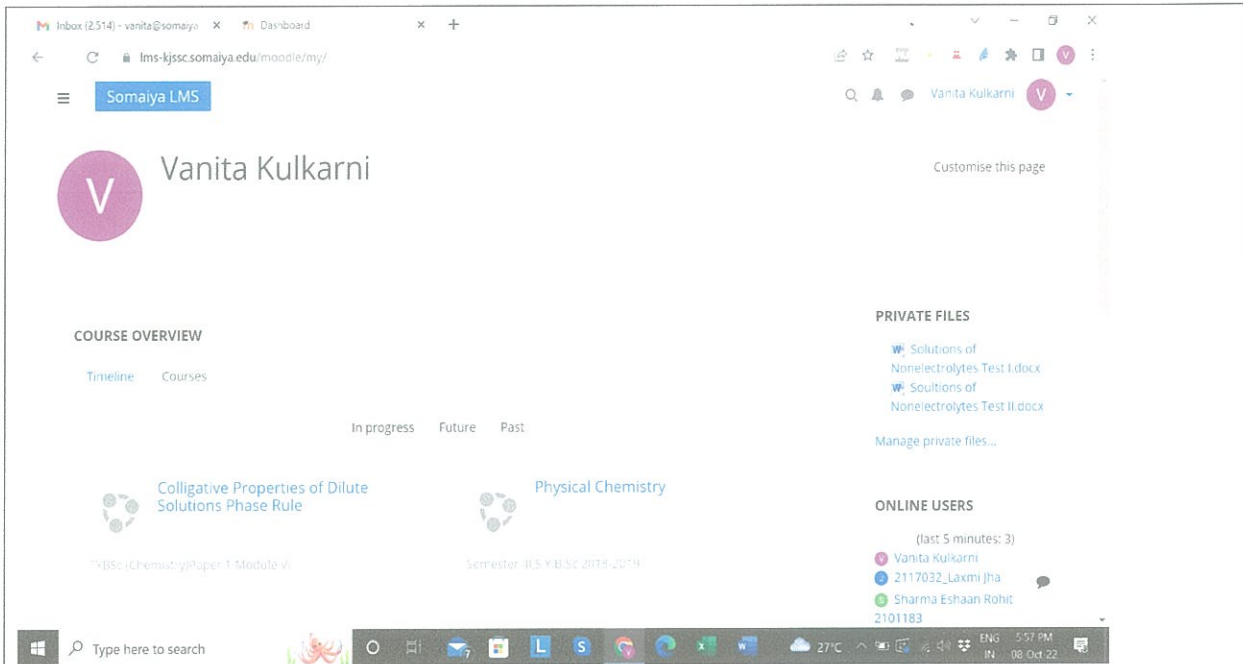


Image of MOODLE for TYBSc and SYBSc (2018-19)

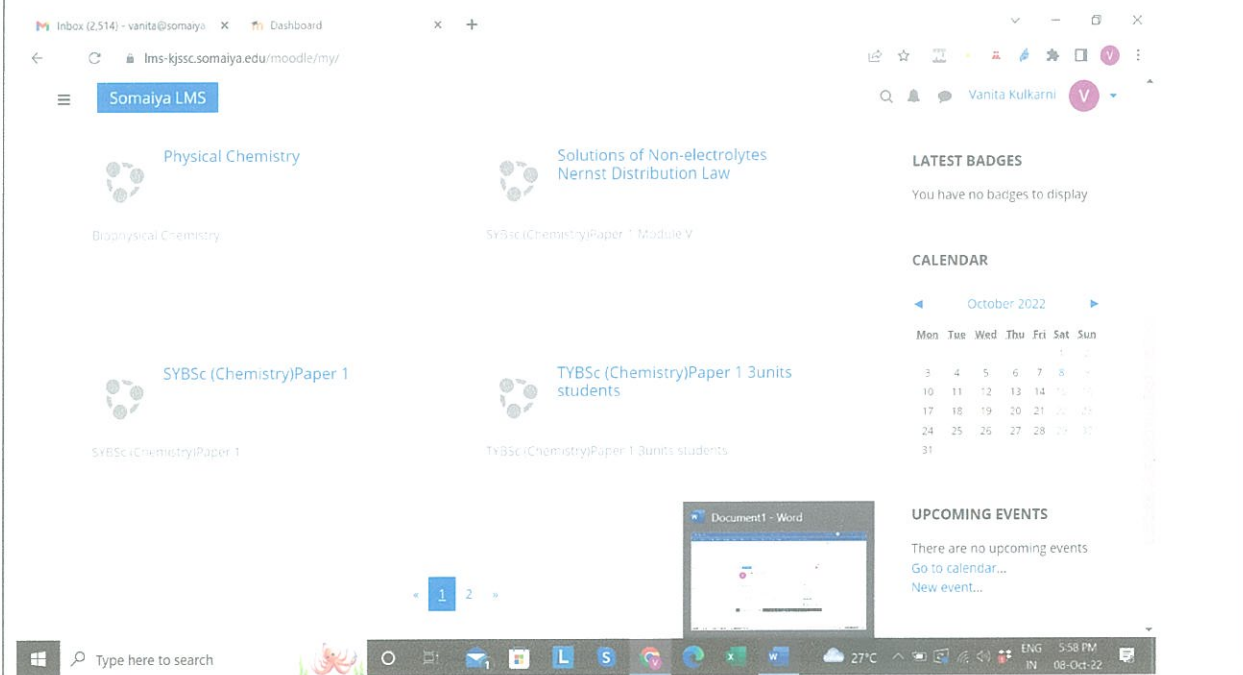


Image of MOODLE for MSc, SYBSc and TYBSc (2018-19)

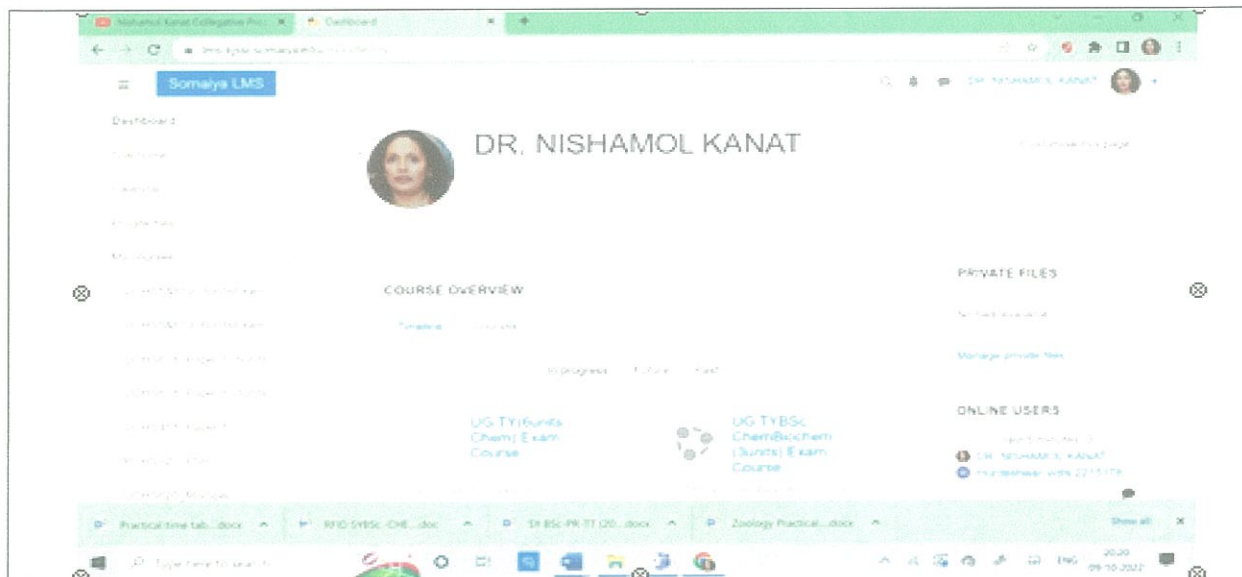
*Ambh*  
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Moodle-NK (2018-19)

Image- MOODLE \_TYBSc\_2018-19

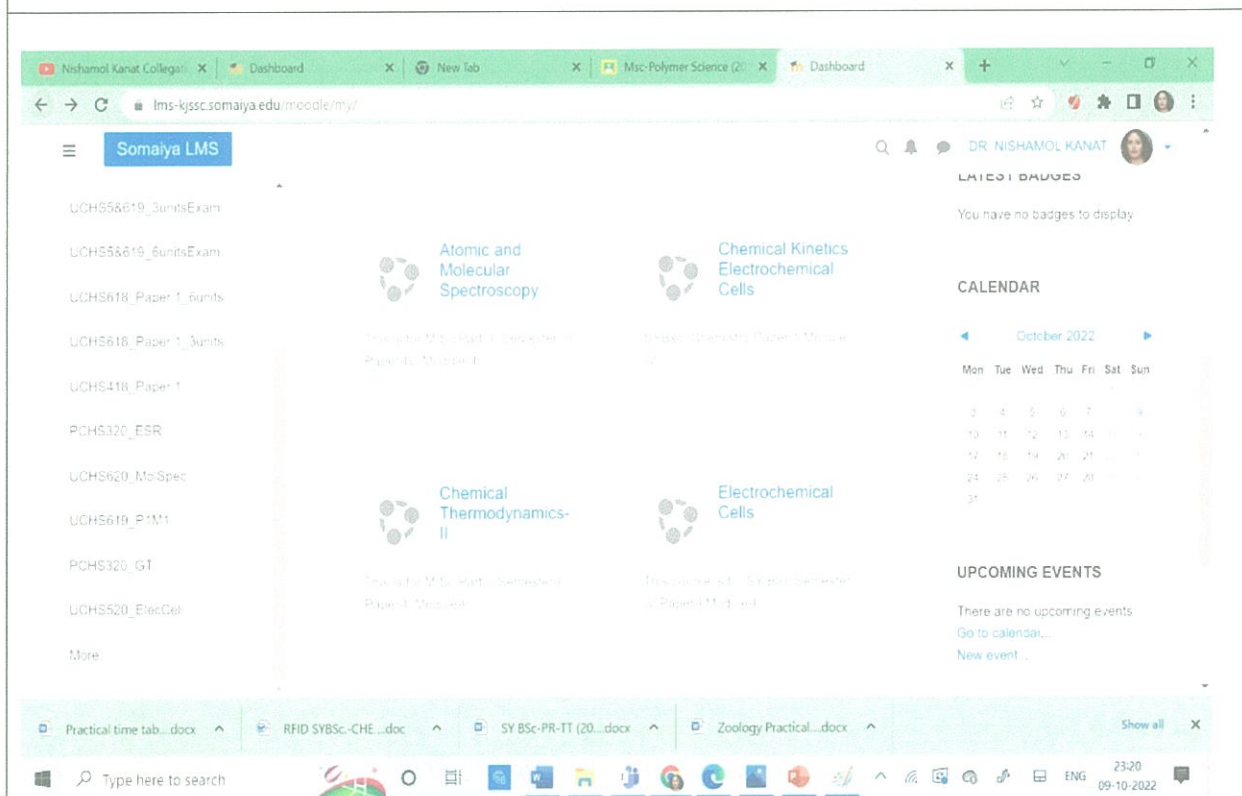


Image-MOODLE for MSc Part II Physical chemistry, MSc I, SYBSC Div B & C (2019-20)

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# SOMAIYA VIDYAVIHAR

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Resources for formative assessment

**Hidden from students**

- Course overview
- Mind Map
- Discovery of Radioactivity and life of Marie Curie
- Nuclear Energy as an alternative source of clean energy

Dear Students

Please take this poll on nuclear energy as a source of renewable energy to mitigate climate change. We are looking for reducing the carbon dioxide emissions .What is your opinion about Nuclear energy? You may select any two most relevant options .

Announcements

## Week 1 Radioactivity

### Moodle for TYBSc (2020-21)

Dashboard

Atomic and Molecular Spectroscopy

Chemical Kinetics Electrochemical Cells

Chemical Thermodynamics-II

Electrochemical Cells

CALENDAR

Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

UPCOMING EVENTS

There are no upcoming events

Go to calendar...

New event...

### MOODLE TYBSc (2020-2021)

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Somaiya LMS

Physical Organic Chemistry and Reaction Mechanism + Stereochemistry

Dashboard My courses Phv Oig Chem + Stere

Announcements

Lecture Recordings on Kinetic and Thermodynamic Stability, Organic Acids and Bases, Intermediates and Elimination Reactions

Fundamentals of Reaction Mechanism

Hammond Postulate and Thermodynamic and Kinetic Parameter

Acidity and Basicity is not available

Intermediates

- Carbocations
- Free Radicals
- Carbanions
- Benzyne
- Nitrenes
- Ketenes

MOODLE for TYBSc (2020-2021)

Somaiya LMS

Atomic and Molecular Spectroscopy

Chemical Kinetics

Electrochemical Cells

Chemical Thermodynamics II

Electrochemical Cells

CALENDAR

UPCOMING EVENTS

Moodle- NK (2021-22)

MOODLE for SYBSc, TYBSc (2021-2022)

Somaiya LMS

Stereochemistry

Elements of Symmetry

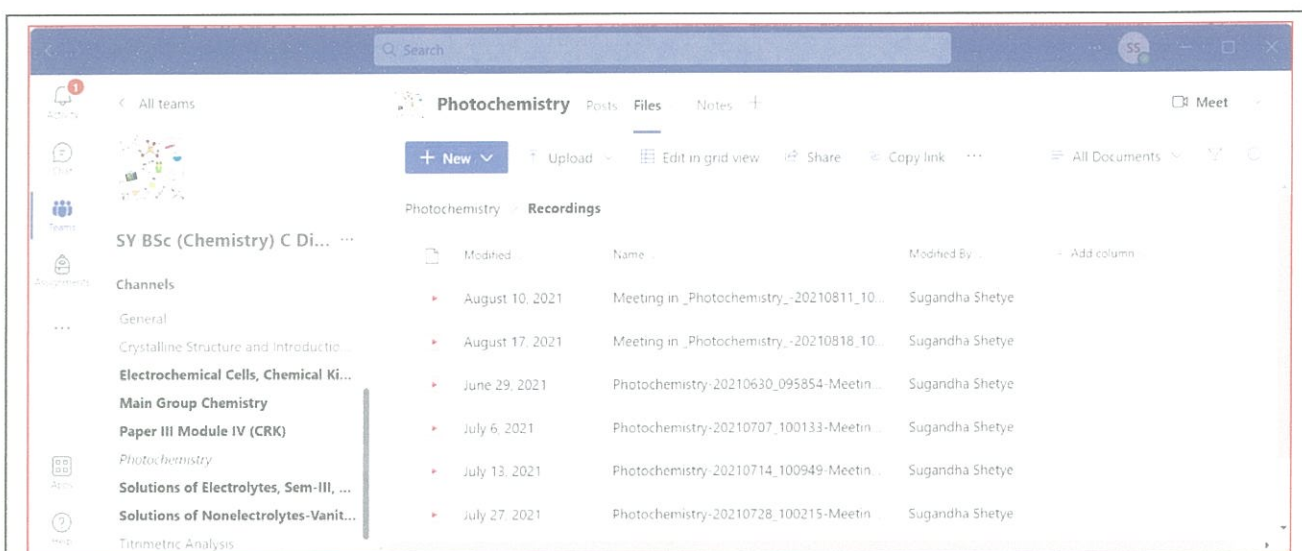
MOODLE for SYBSc, TYBSc (2021-22)

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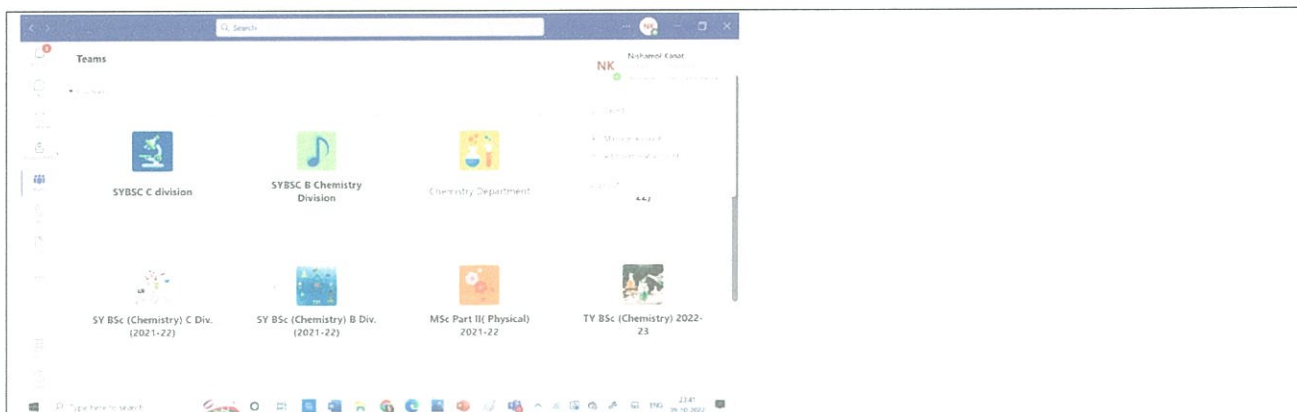




**Moodle:** It is a free and open-source learning management system. Teacher/instructor could customize the dashboard as per the requirement and facilitated better academic transactions. There were tools available for uploading and assessment of the Assignments.



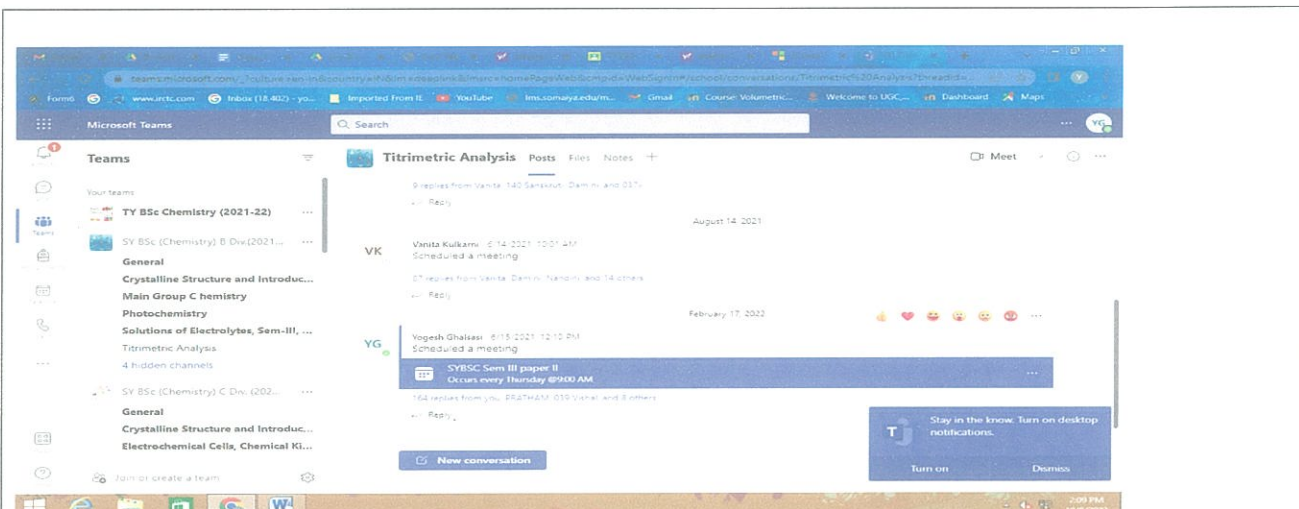
**Image of MS-Teams used for SYBSc and TYBSc class (2020-21)**



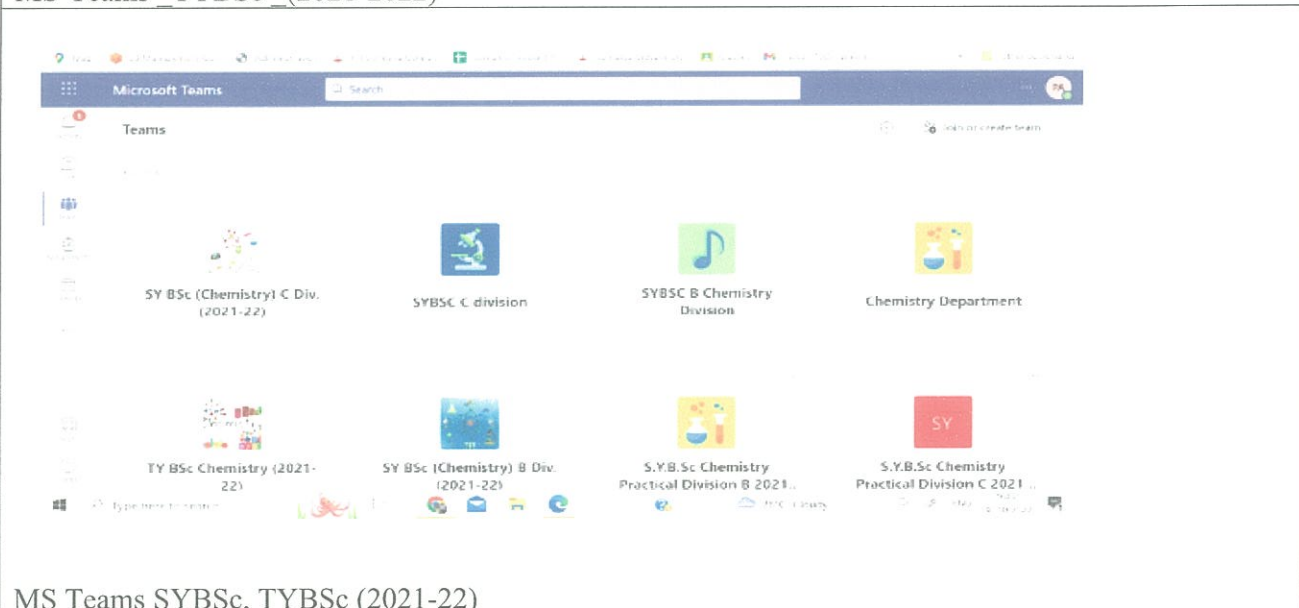
**MS-Teams for SYBSc (Div B & C), MSc Part II Physical chemistry (2020-2021)**

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MS-Teams TYBSc (2021-2022)



MS Teams SYBSc, TYBSc (2021-22)

**MS-Teams:** It is a proprietary business communication platform developed by Microsoft. This also consisted of tools available for uploading and assessment of the Assignments.

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<https://padlet.com/sugandha/fgmmetgojfj0x4cw>  
Padlet for UG students 2020-21

**Open Book Test Chemical Thermodynamics**  
Lets learn it together ...  
DR. SUGANDHA SHETYE OCT 17, 2021 06 28PM

DR. SUGANDHA SHETYE NOV 01, 2021 04 59PM

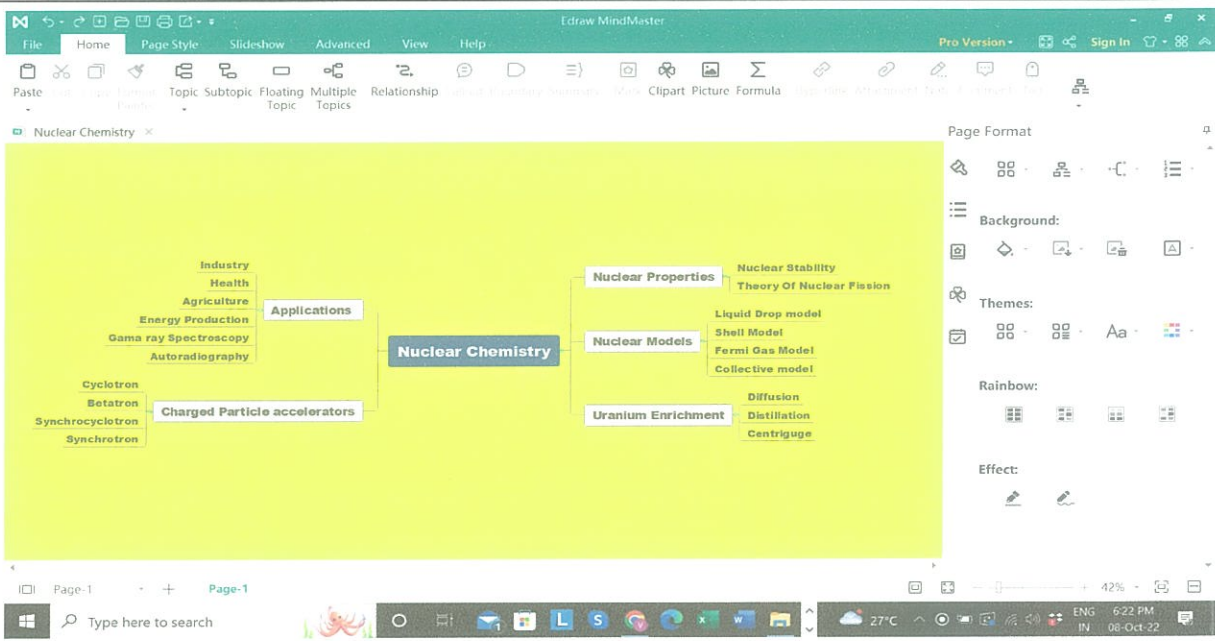
**Open book test**  
PDF document

**2117054\_810211129026.pdf**  
PDF document



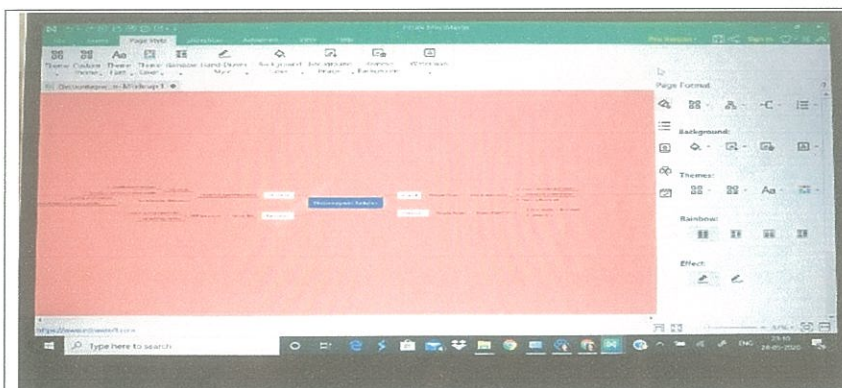
Padlet TYBSc (2021-22)

**Padlet:** It is an online blank wall board that can be used by invited participants to collaborate in collecting ideas, brainstorming and sharing information. Learners could post comments, images, videos and links on any topic in real time which could be modified later. Padlet wall could be viewed by an audience by being mirrored or projected to a screen.



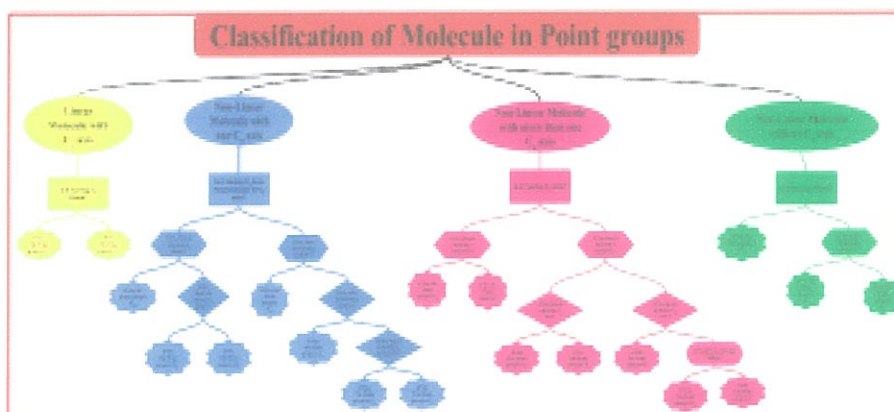
Mind map for TYBSC (2020-2021)





Mindmap for TYBSc (2020-2021)

Mind Map



Mindmap for MSc Part I (2021-22)

**MindMap:** A mind map is a diagram containing key words and pictures. It can show relation between all key words at all levels clearly and it can build the memory link from key words to pictures and colors. Elements of a mind map are arranged intuitively, according to the importance of concepts and marked by different colors and pictures.

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Lab Safety

This presentation has results. View results Manage results

Go to www.menti.com and use the code 5614 0689

In introductory chemistry labs, most emergencies involving fires or spills are not likely to be major events since \_\_\_

Slide type: Select Answer

Content Customize

The audience limit for quiz is 2 000 people. Learn more

Your question ?

In introductory chemistry labs, most emergencies in

Options

- Most of the chemicals are not flammable
- Most of the chemicals are relatively safe to use
- Only small quantities of chemicals are used
- Lab instructors can be relied upon in an emerg

+ Add option

Mentimeter for FYBSC (2020-2021)

► Mentimeter

Renewable energy Sources

This presentation has results. View results Manage results

Quickly write any one source of renewable energy?

Which is the best source of renewable energy?

Quickly write any one source of renewable energy?

Mentimeter For TYBSc (2021-22)

*msk*  
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**Mentimeter:** It allows to create presentations, interactive polls, quizzes



Quizizz App - Yo

Quizizz App used for FYBSc class (2020-2021)

**QUIZZZ**  
 SAURABH SHETE  
 Upgrade to Super  
 Refer and earn FREE Super months

**Anti TB Drugs**  
 100% average accuracy  
 10/10 points  
 10/10 correct

**2 questions**

Q 1. Multiple choice  
 \_\_\_\_\_ Drug belonging to the hydrazide chemical class is useful in the treatment of TB  
 Isoniazid  
 Ethambutol

Q 2. Multiple choice  
 Ethambutol is synthesized from \_\_\_\_\_ as the starting material  
 2-Nitro-1-Butanol  
 2-Methyl-1-Pentanol  
 Salicylic acid

Quizizz App used for TYBSc class (2020-2021)

*Amsh*  
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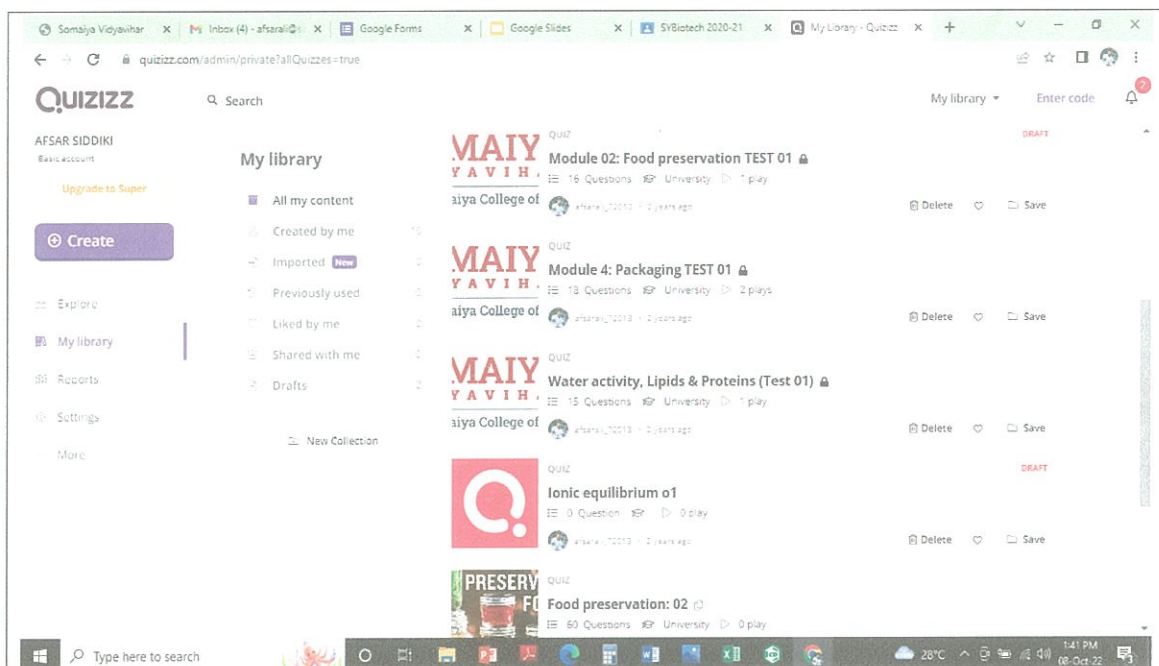
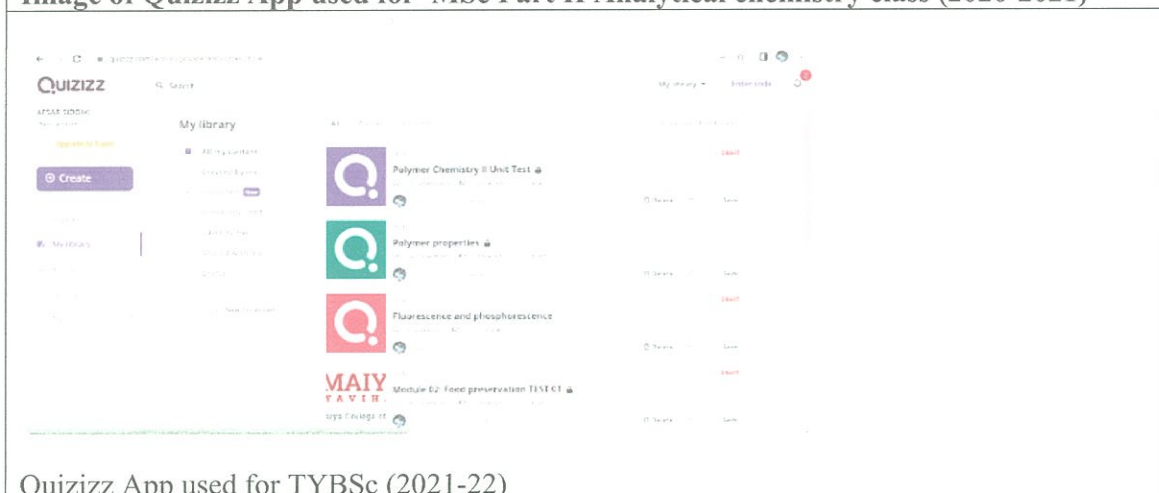


Image of Quizizz App used for MSc Part II Analytical chemistry class (2020-2021)



Quizizz App used for TYBSc (2021-22)

**Quizizz App:** It allows to create live quizzes, digital flash cards.



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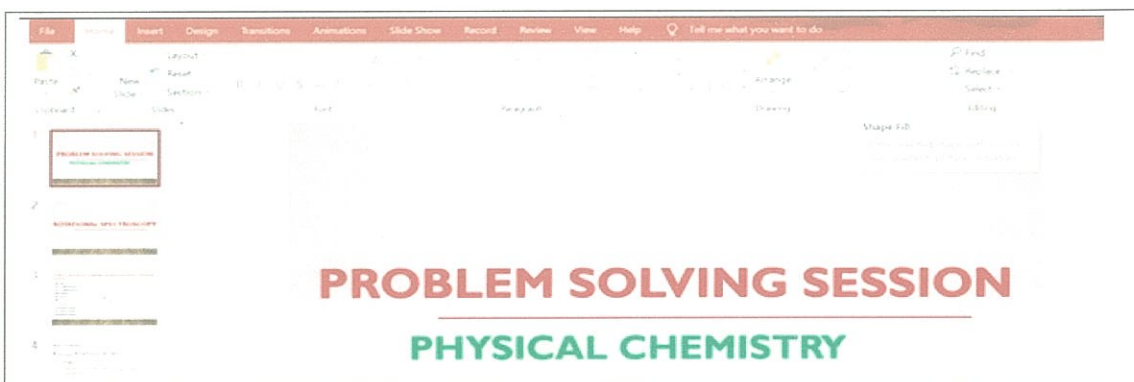






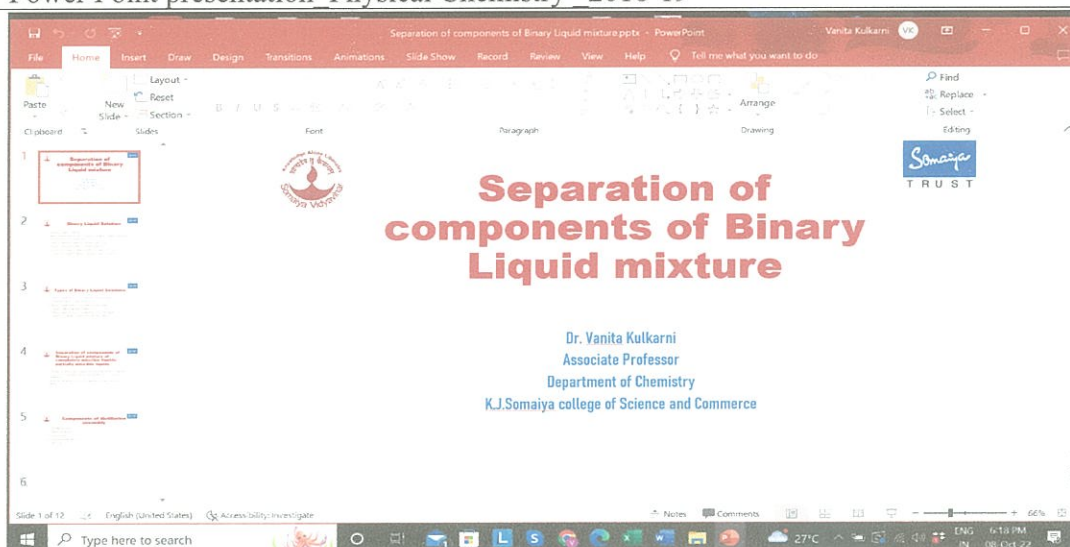
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K J Somaiya College of Science & Commerce



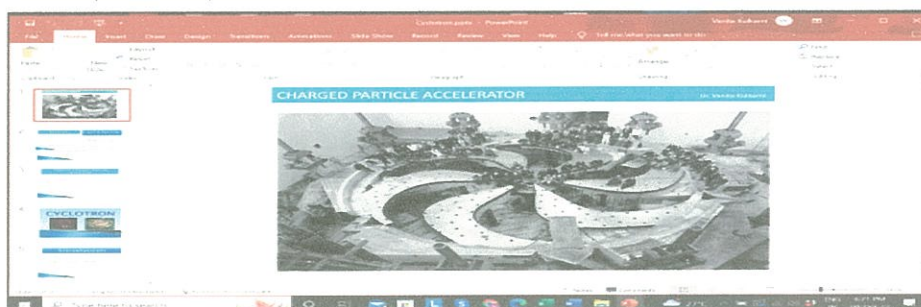
Microsoft Power Point Presentations- NK(2018-19)

Power Point presentation Physical Chemistry 2018-19



Power Point Presentation For SYBSc (2019-20)

ICT Tools (Power Point) used 2021 - 2022



Powerpoint Presentation for MSc II (2021-2022)

Power Point presentation:

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ICT Tools (Quizlet) used 2021 - 2022

Quizlet for TYBSc (2021-2022)

Quizlet:

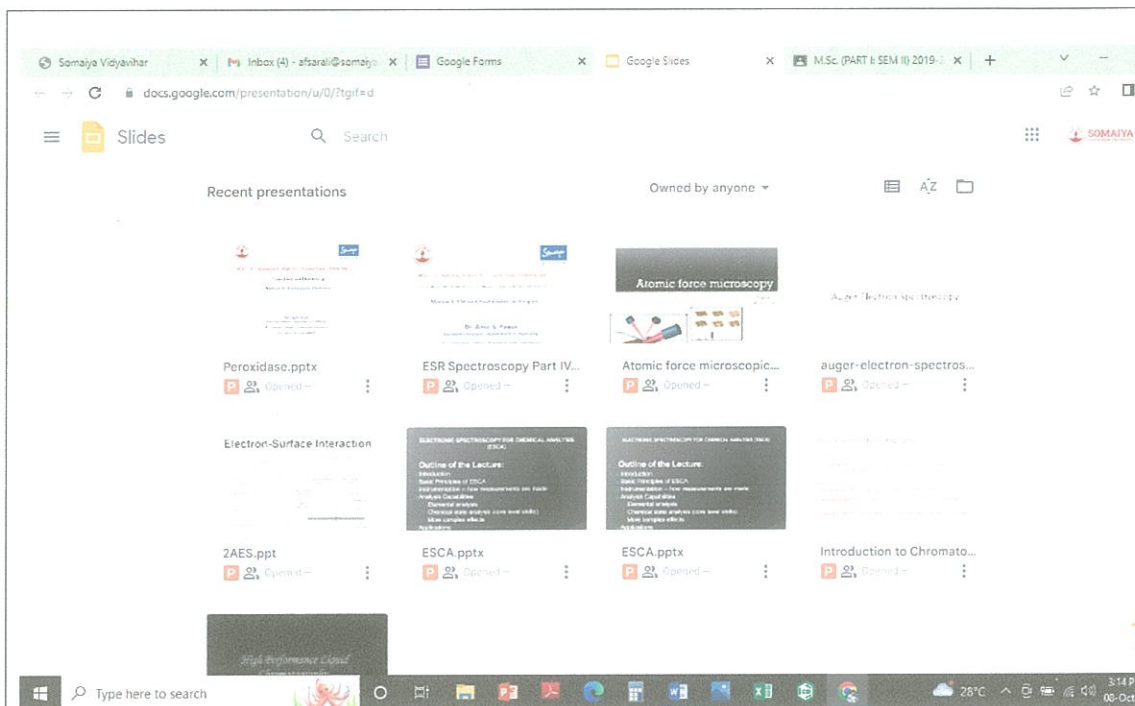
  
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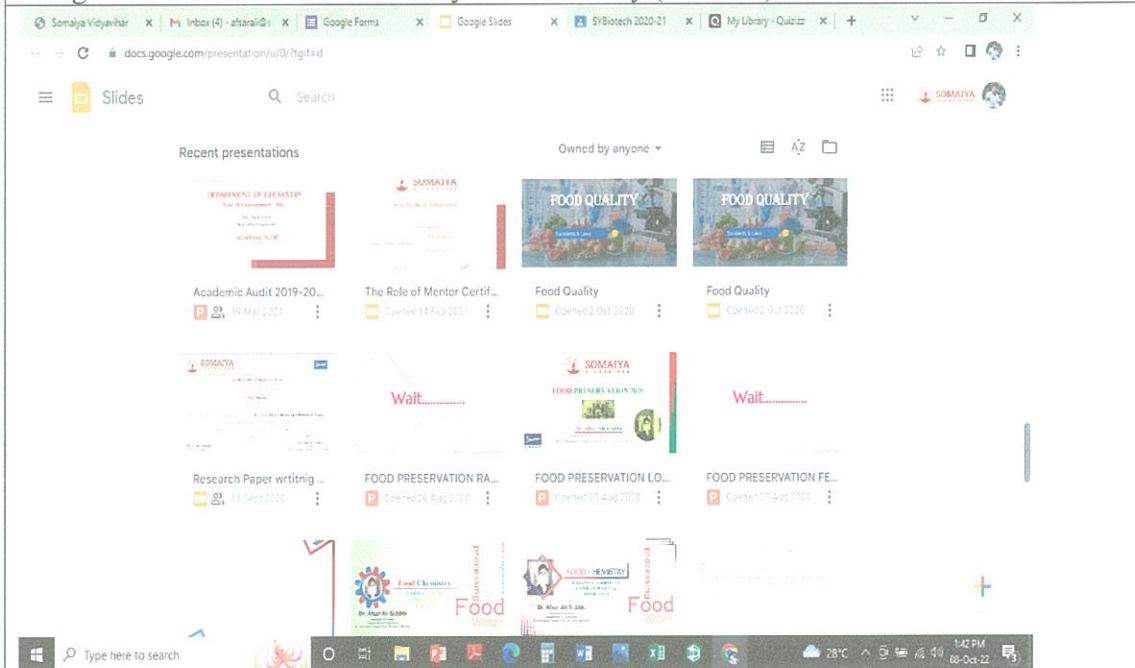


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### Google slides For MSc Part II Analytical chemistry (2019-20)



### Google Slides For MSc Part II Analytical chemistry (2020-2021)

*Anita*  
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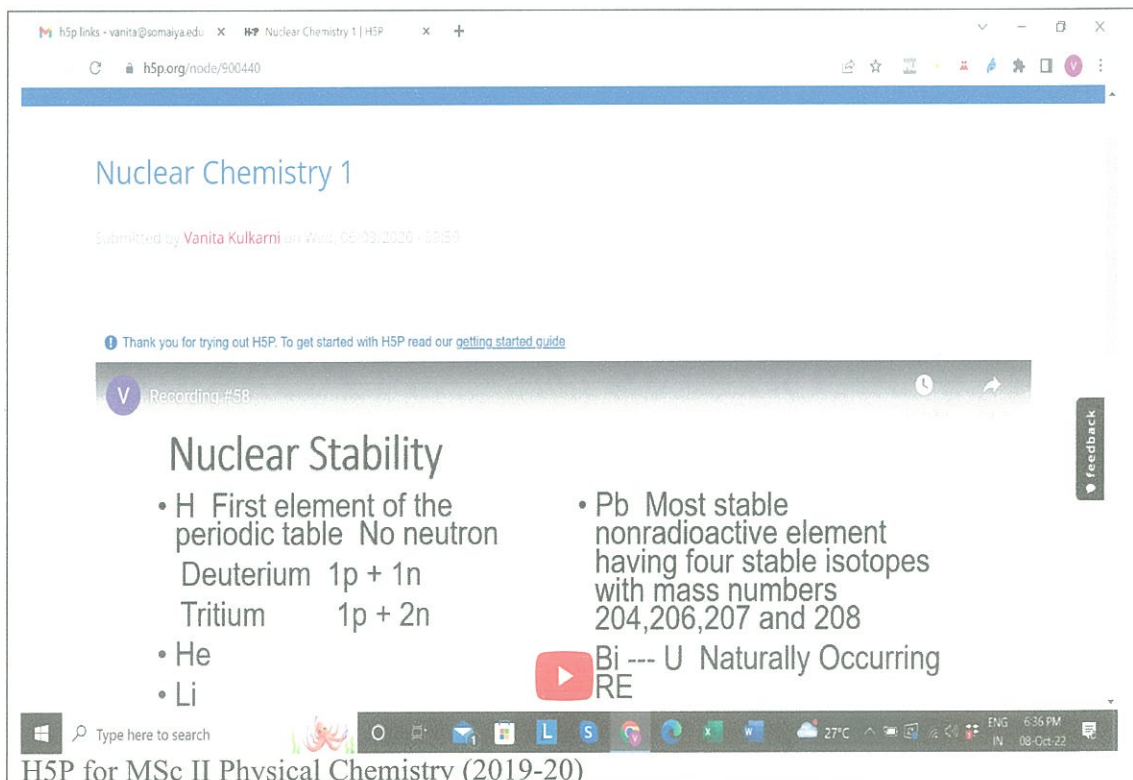






Google slides:

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HSP:

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SEC-BSC-01 Announcements SEC LECTURE BY DR. R... 63 Student view

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SEC LECTURE BY DR. RIKHIL SHAH ON MONDAY 28TH SEPTEMBER . 9 AM @GOOGLE MEET

Dr. Susandha Shrivastava  
All sections

27 Sep 2020 at 20:18

Dear Students  
You have the next session on Patents by Dr Rikhil Shah on Monday 28th September at 9.00 am.  
Click below to join your lecture.  
[Join Google Meet](#)  
Or join by dialling [+1 904-580-8611](#) pin: [490660030](#)  
Conference ID: ffj-evaa-qpo

Canvas for TYBSc class (2020-21)

Canvas:

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The collage contains several educational components:

- The Carbon Cycle:** A flowchart showing the exchange of carbon between the atmosphere, land, and oceans. Key processes include photosynthesis, respiration, decomposition, and combustion.
- Carbon Systems - Feedback Loops:** A diagram illustrating how different carbon reservoirs (atmosphere, land, ocean) interact and influence each other through feedback mechanisms.
- Sources of Carbon:** A list of natural and anthropogenic sources, including volcanic activity, fossil fuel combustion, and land use changes.
- The Impact of Carbon Sinks:** A diagram showing how forests, oceans, and other natural systems act as carbon sinks, storing carbon and reducing atmospheric levels.
- Notes on Feedback Loops:** Text explaining how changes in one part of the system can lead to either positive (amplifying) or negative (dampening) feedback loops.

[https://jamboard.google.com/d/14tI0EO8aV\\_qN5ima5lcGCFXd-cwDvYKg1XBHa5J8xj4/edit?usp=sharing](https://jamboard.google.com/d/14tI0EO8aV_qN5ima5lcGCFXd-cwDvYKg1XBHa5J8xj4/edit?usp=sharing)

JAMBOARD For TYBSc and MSc students (2020-21)

JAMBOARD:

*[Signature]*  
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The screenshot shows a presentation slide with the following content:

- Slide title: **SYNTHESIS OF NANOMATERIALS USING BIOLOGICAL METHODS**
- Central graphic: A cluster of interlocking puzzle pieces in blue, green, and yellow.
- Bottom section (teal background):
  - Text: **Group Discussion - JIGSAW Method -Online**
  - Text: **1st October 2021**
  - Text: **MSc Sem III**
  - Graphic: A single puzzle piece on the right side.

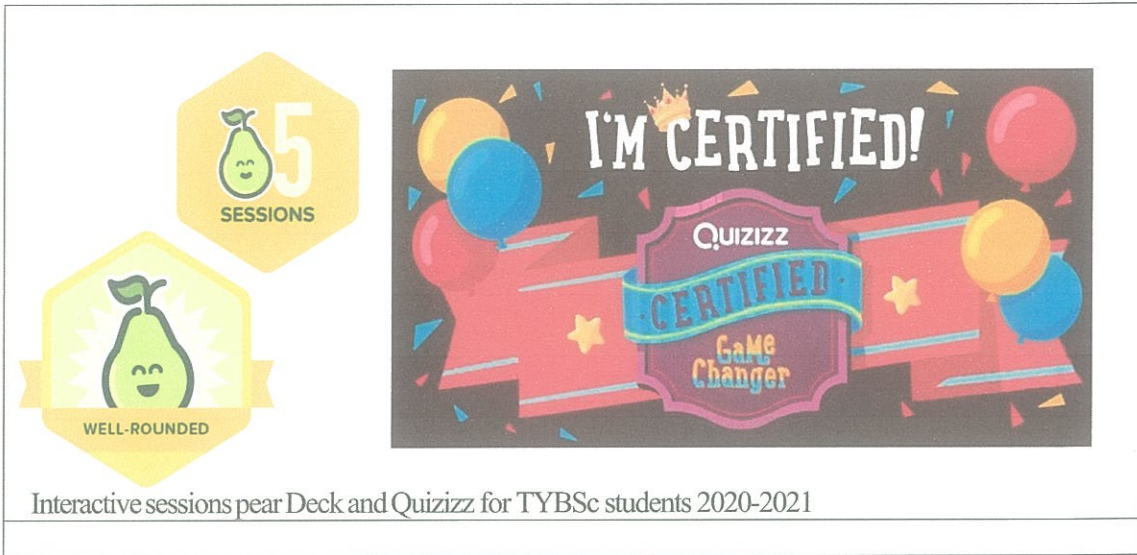
Below the screenshot, the text reads: **Jigsaw-For TYBSc students (2020-2021)**

Jigsaw

---

*Amsh*  
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Interactive sessions pear Deck and Quizizz for TYBSc students 2020-2021

Interactive sessions pear Deck and Quizizz:

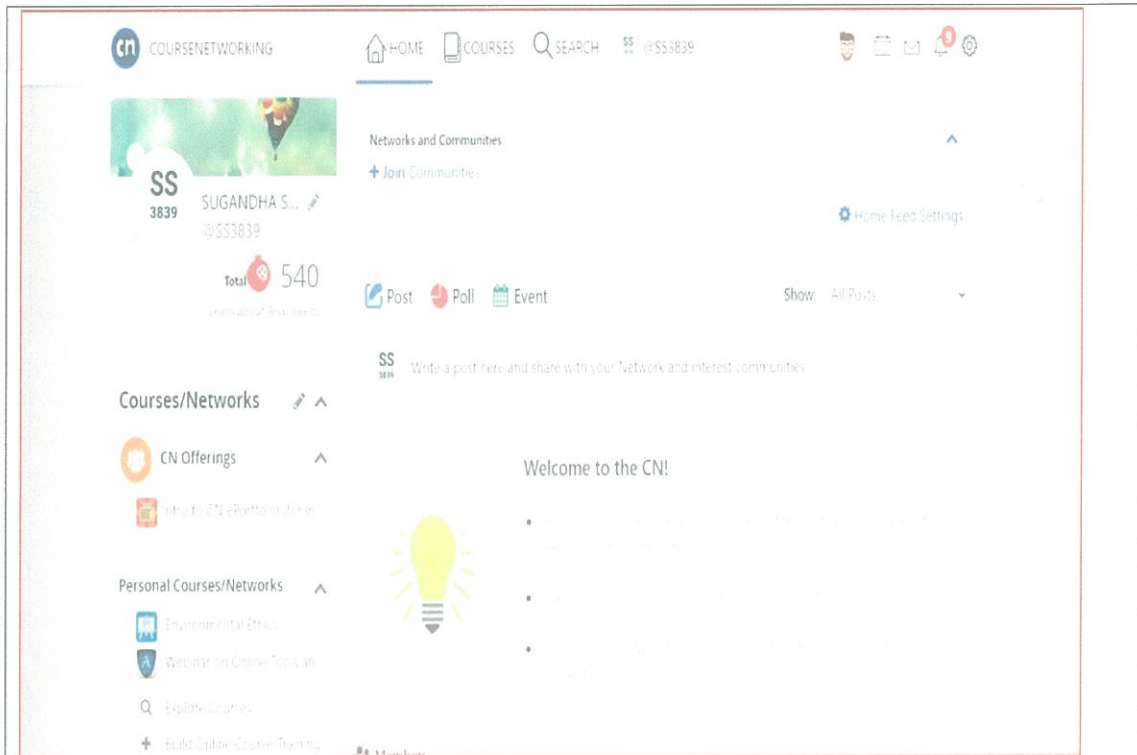
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The course Network for TYBSc students (2020-2021)

The course Network

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Synchrotron by Vanita Kulkarni

https://www.thinglink.com/scene/1326132769602611201

Somaiya Vidyavihar

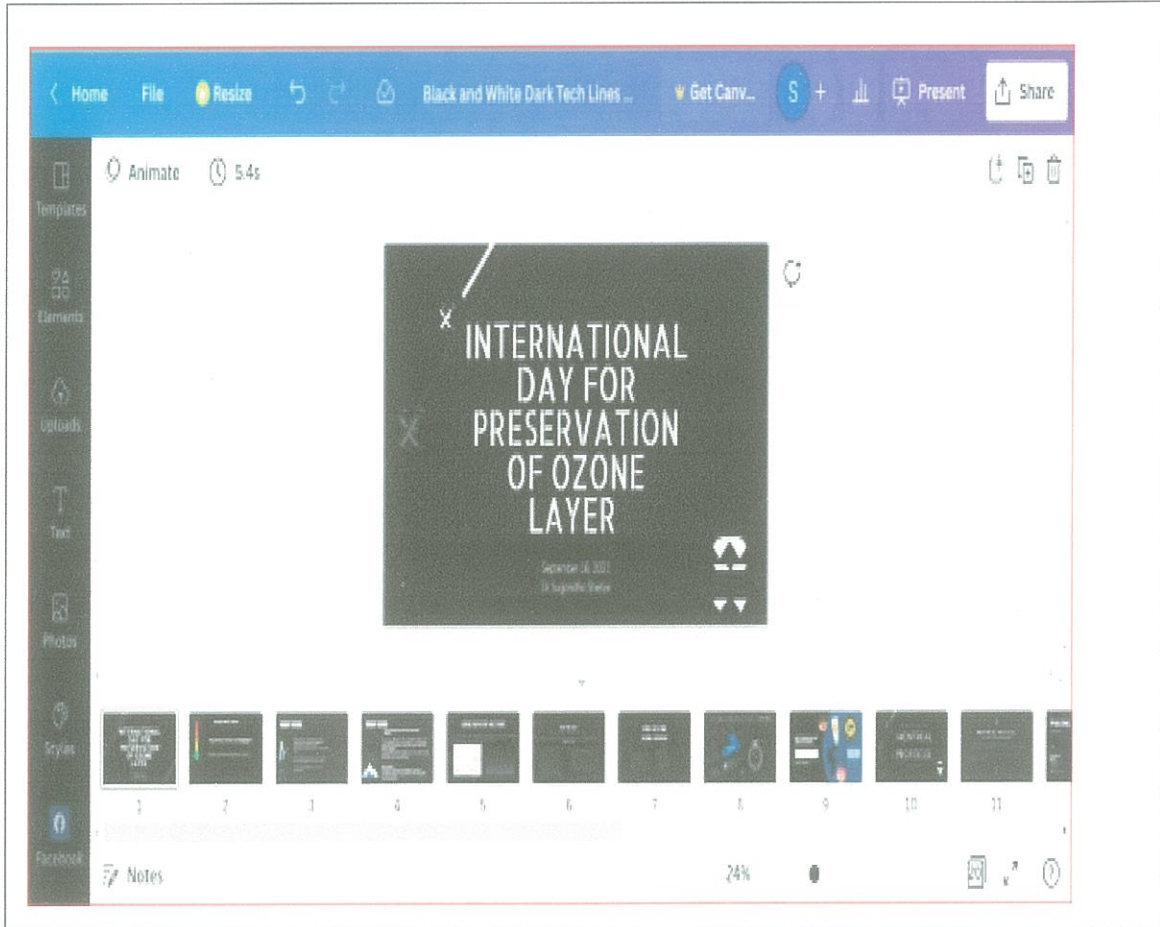
Do you want to accept cookies? This site uses cookies to deliver our services. By using our site, you acknowledge that you have read and understand our Terms of Service and Cookie Policy. Your use of ThingLink's Products and Services, is subject to these policies and terms.

Thinglink for TYBSc (2020-2021)

Thinglink



*Prakash*  
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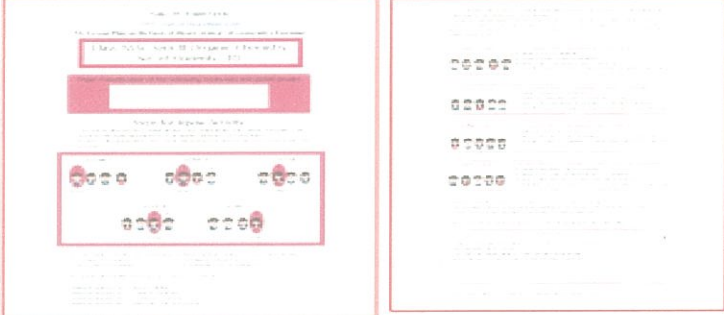
Canva:

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*Amh*  
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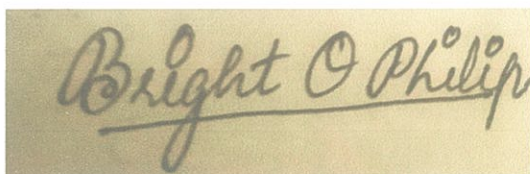




Instructional material for Cooperative learning

Cooperative learning for MSc Part II Organic (2021-22)

Image for Cooperative learning



Signature: Head of the department

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## Use of ICT-enabled tools for Teaching, Learning and Evaluation

2017-2022

### Department of Microbiology

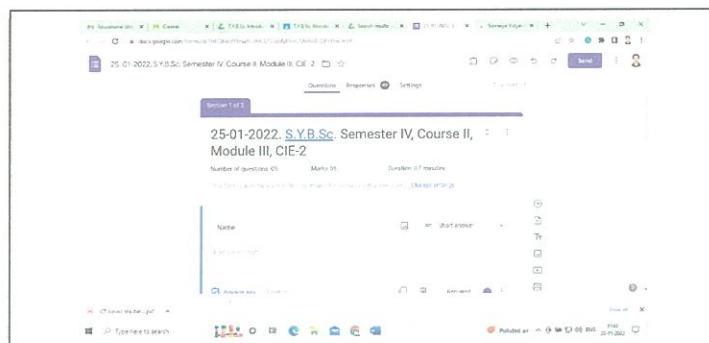


Image of Google form for S. Y. B. Sc. class for CIE exam (2021-2022)

**Google Form:** A teacher could design a quiz/ test taking into consideration the difficulty level of the course and paste a shortened link of the course on an appropriate platform which is accessible to the learner. Institute has subscription at campus level to the Google Workplace.

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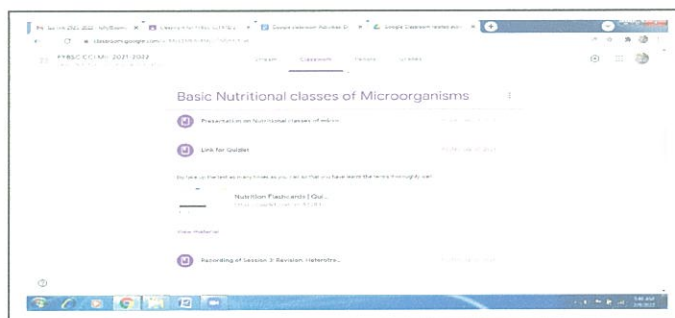


Image of Google Classroom for F. Y. B.Sc. class (2021-2022)

**Google Classroom:** It served as an online blended learning platform which is developed by Google for educational institutes with an intention of simplifying, creating, distributing and grading assignments. It facilitated storage of enormous data/files in drive associated with classroom and enabled faster retrieval of the data. There were tools available for uploading and assessment of the Assignments. Institute has subscription at campus level to the Google Workplace.

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Image for an animated video using Renderforest for T. Y. B. Sc. Class (2021-2022)

**Renderforest:** It is an online tool to create stunning videos animations, presentation graphics. Animated videos are created to keep the content more comprehensive for a learner.

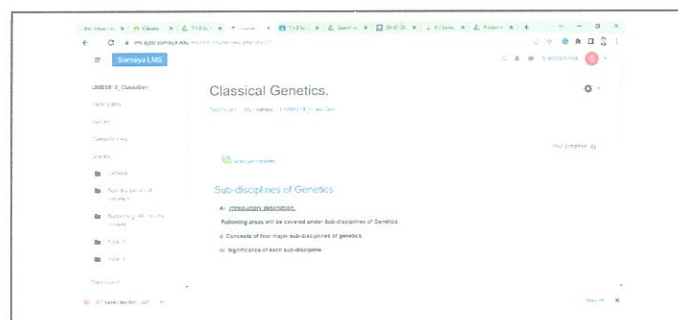
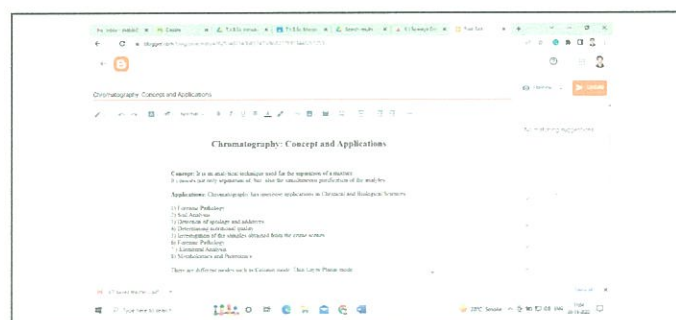


Image of Moodle for T. Y. B. Sc. class (2019-2020)

**Moodle:** It is a free and open-source learning management system. Teacher/instructor could customize the dashboard as per the requirement and facilitated better academic transactions. There were tools available for uploading and assessment of the Assignments.



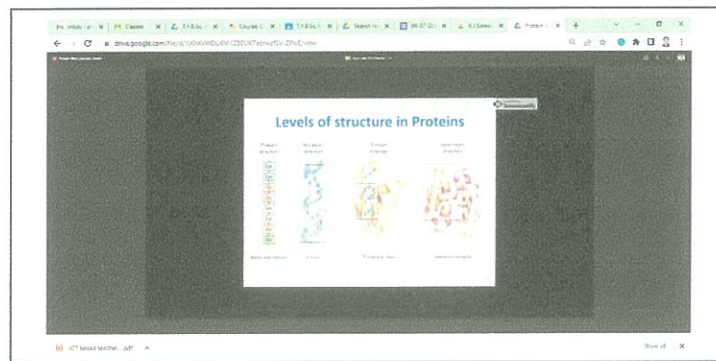
*[Signature]*  
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**Image of Educational Blog used for S. Y. B. Sc. class (2019-2020)**

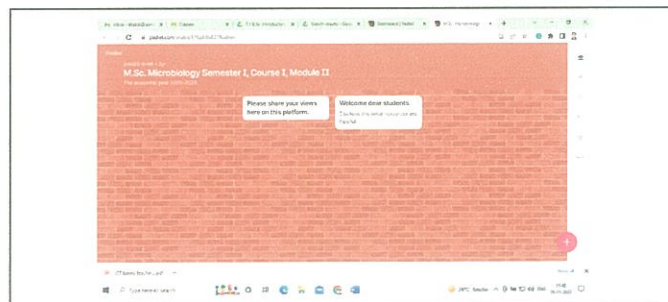
**Educational blog:** Blogs are created for educational purposes. Supplements student and teacher learning by sharing resources, facilitating reflections and creating academic resources for enhanced cognitive levels.



**Image of video created for F. Y. B. Sc. class (2019-2020)**

**screencast**

**Screen casts:** It consists of digital recording of computer screen output, also known as video screen capture often containing audio narration. In other words, screencast is a movie of the changes overtime that a user sees over a computer screen, which is enhanced with audio narration. This helped teachers to create a content explaining a process in which every step could be supported by a comprehensive audio narration.



**Image of Padlet created for M.Sc. I class (2020-2021)**

**Padlet**

**Padlet:** It is an online blank wall board that can be used by invited participants to collaborate in collecting ideas, brainstorming and sharing information. Learners could post comments,

images, videos and links on any topic in real time which could be modified later. Padlet wall could be viewed by an audience by being mirrored or projected to a screen.

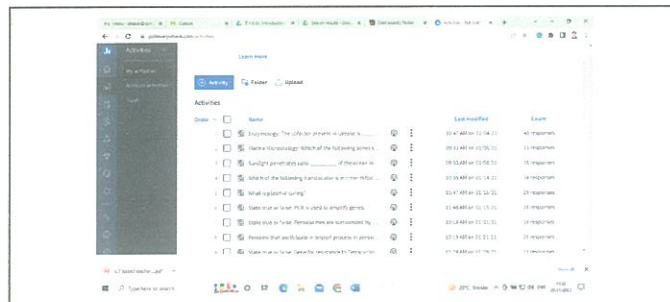


Image of quiz everywhere for S. Y. B.Sc., M.Sc. classes (2021 and 2022) on Polls-

**Polls-everywhere:** It is an online response system offering real-time question and answer polls. Instructors could ask multiple choice questions, rank order, open ended questions, engage students through a word cloud or have students complete a survey with progress tracked on screen. It links to PowerPoint, Keynote, or Google Slides after an account is created. It is the easiest way to obtain the live responses of the audience/ students at any venue, conferences, classrooms, concerts etc.



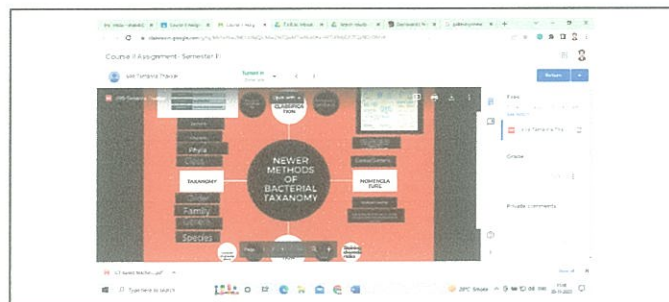
Image of one of the MOOCs completed by a student T. Y. B Sc. class (2021-2022)

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**Massive Open Online Course (MOOC):** they are online courses offered by NPTEL on SWAYAM, Coursera and many other national and international coordinators. MOOCs enable a learner to gain knowledge and become familiar about the recent trends in a subject. MOOCs are learner-centric courses.

---



**Image of MindMap for S. Y. B. Sc. class (2021-2022)**

**MindMap:** A mind map is a diagram containing key words and pictures. It can show relation between all key words at all levels clearly and it can build the memory link from key words to pictures and colors. Elements of a mind map are arranged intuitively, according to the importance of concepts and marked by different colors and pictures.

---



**Image of Testmoz for S.Y.B.Sc. and T. Y. B. Sc. classes (2018-2019)**

**Testmoz:** It is an excellent web-tool that allow you to create auto-graded test and quizzes. Once the test is conducted it provides detailed reports so that teacher can analyze student scores and responses.

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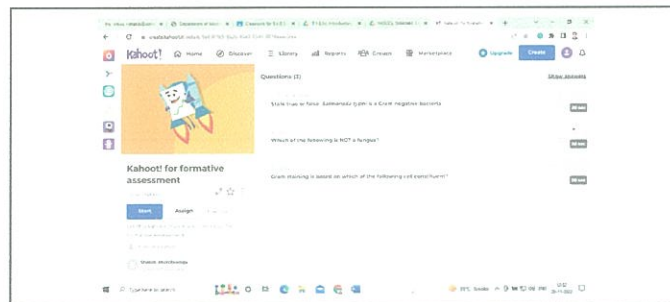




**Image of Plickers for T. Y. B. Sc. class (2018-2019)**

**Plickers:** It is a free assessment tool based on the concept of having students use response “clickers” to respond to multiple choice questions. Plickers however does away with the need for expensive “clickers”.

---



**Image of Kahoot used for S. Y. B. Sc. class (2019-2020)**

**Kahoot:** It is a tool for using technology to administer quizzes, discussions, or surveys. It is a game-based classroom response system played by the whole class in real time. Multiple choice system questions are projected on the screen and students answer the questions with their smart-phone, tablet or computer.

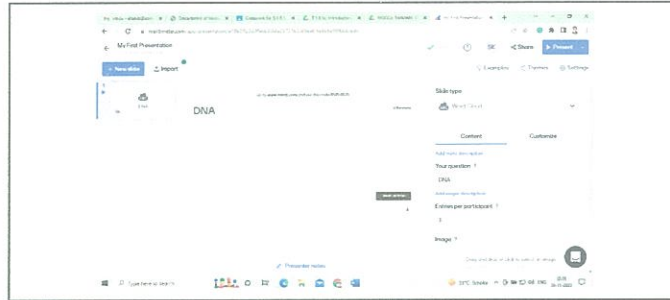


Image of Mentimeter used for F. Y. B. Sc., S. Y. B. Sc. classes (2019,2020,2021)

**Mentimeter:** It allows to create presentations, interactive polls, quizzes

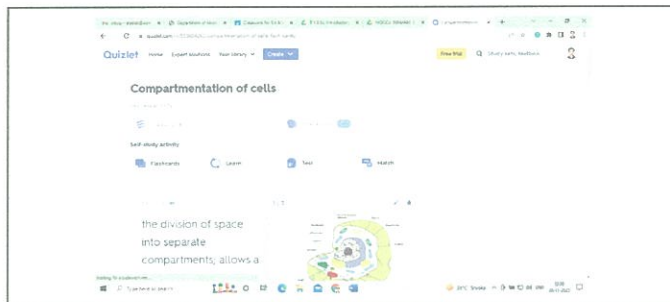


Image of  
M. Sc. I class (2019-2020)

Quizlet used for

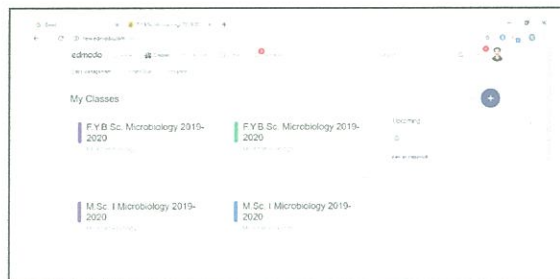
**Quizlet:** It allows to create live quizzes, digital flash cards.



Image for Cooperative learning strategies for T. Y. B. Sc. class (2019-2020)

**Brief description of the strategy adopted and the outcome for the same**

**Activity (Problem based learning):** Ninad Achrekar one of student was considered as a company manager facing problem of dye contamination of the surrounding water body. Students were asked to discuss, have brainstorming session with their peers and come up with solutions involving plasmids.



**Image of classes created on Edmodo for F. Y. B. Sc. M.Sc. I, II (2019-2020):**

**Edmodo:** It is an educational technology offering a communication, collaboration and coaching platform to the teachers in schools and Colleges. Edmodo network enables teachers to share content, distribute quizzes, assignments and manage communication with the students, colleagues and parents.

**Signature: Head of the department**



*Amba*  
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## Use of ICT-enabled tools for Teaching, Learning and Evaluation

2017-2022

Department of Botany

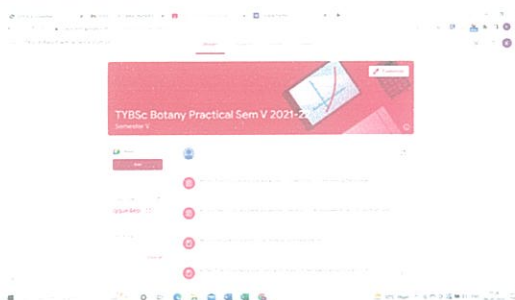
### Image of Google form for S.Y.B.Sc. Sem IV class for internal exam (2020-21)


**Google Form:** A teacher could design a quiz/ test taking into consideration the difficulty level of the course and paste a shortened link of the course -on an appropriate platform which is accessible to the learner. Institute has subscription at campus level to the Google Workplace.



### Image of Google Classroom for T.Y.B.Sc. Botany Practical class (2021-22)

**Google Classroom:** It served as an online blended learning platform which is developed by Google for educational institutes with an intention of simplifying, creating, distributing and grading assignments. It facilitated storage of enormous data/files in drive associated with classroom and enabled faster retrieval of the data. There were tools available for uploading and assessment of the Assignments. Institute has subscription at campus level to the Google Workplace.



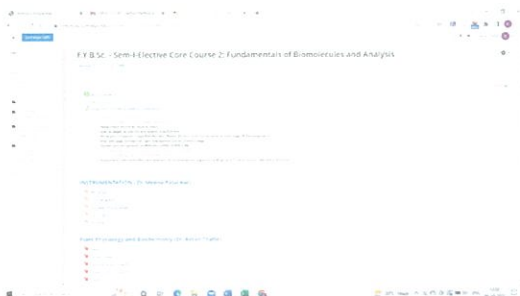
  
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### Image of Moodle for F.Y.B.Sc. Botany Sem I class (2021-22)

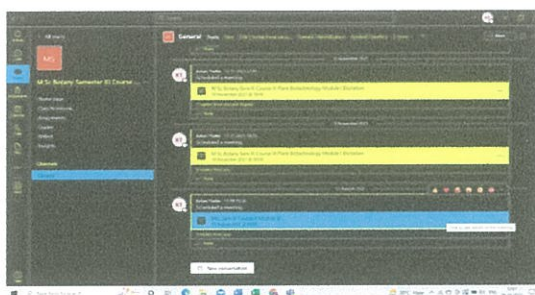
**Moodle:** It is a free and open-source learning management system. Teacher/instructor could customize the dashboard as per the requirement and facilitated better academic transactions. There were tools available for uploading and assessment of the Assignments.

---



### Image of MS-Teams used for M.Sc. Botany Sem III class (2021-22)

**MS-Teams:** It is a proprietary business communication platform developed by Microsoft. This also consisted of tools available for uploading and assessment of the Assignments.



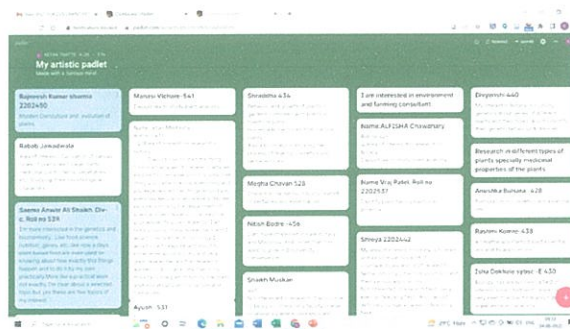
**Image of Edpuzzle created for S.Y.B.Sc. Botany Sem III class (2021-22)**

**Edpuzzle:** It consists of recorded videos embedded with questions. Students have to answer the question and then it can continue watching the video. This technique can be used for internal assessment.



**Image of Padlet created for S.Y.B.Sc. Botany Sem IV class (year)**

**Padlet:** It is an online blank wall board that can be used by invited participants to collaborate in collecting ideas, brainstorming and sharing information. Learners could post comments, images, videos and links on any topic in real time which could be modified later. Padlet wall could be viewed by an audience by being mirrored or projected to a screen.



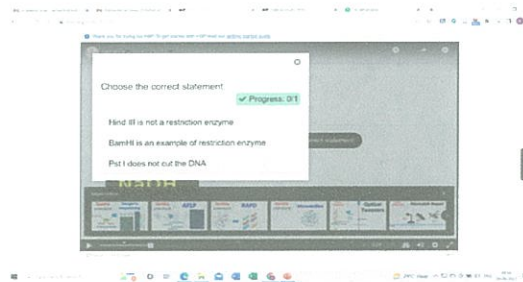
  
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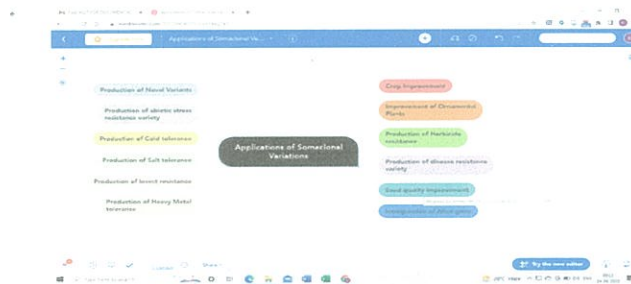
### Image of h5P for M.Sc. Botany Sem III class (2020-21)

**H5P:** It is an online response system offering real-time question and answer. h5P tool has many options for interactive sessions. Different types of assessment can be conducted using h5P tools. Apart from interactive videos, h5P can also be used for creating interactive recordings, Session content, etc.



### Image of MindMap for M.Sc. Botany Sem III class (2021-22)

**MindMap:** A mind map is a diagram containing key words and pictures. It can show relation between all key words at all levels clearly and it can build the memory link from key words to pictures and colours. Elements of a mind map are arranged intuitively, according to the importance of concepts and marked by different colours and pictures.

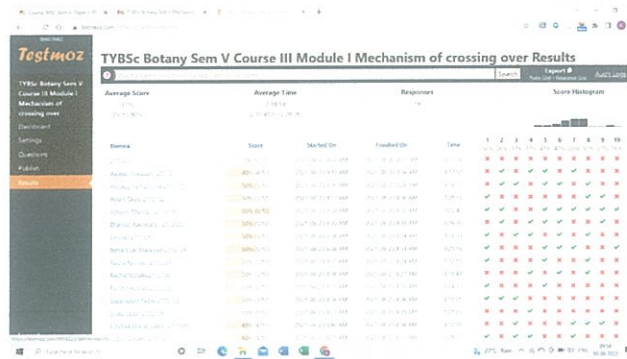


*Omsh*  
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**Image of Testmoz for T.Y.B.Sc. Botany Sem V class (2020-21)**

**Testmoz:** It is an excellent web-tool that allow you to create auto-graded test and quizzes. Once the test is conducted it provides detailed reports so that teacher can analyze student scores and



Item	Score	Marked On	Finished On	Time	1	2	3	4	5	6	7	8	9	10
1. The process of crossing over is a reciprocal process.	100%	2020-08-20 10:00:00 AM	2020-08-20 10:00:00 AM	00:00:00	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2. Crossing over is a reciprocal process.	100%	2020-08-20 10:00:00 AM	2020-08-20 10:00:00 AM	00:00:00	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3. Crossing over is a non-reciprocal process.	100%	2020-08-20 10:00:00 AM	2020-08-20 10:00:00 AM	00:00:00	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4. Crossing over is a non-reciprocal process.	100%	2020-08-20 10:00:00 AM	2020-08-20 10:00:00 AM	00:00:00	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5. Crossing over is a reciprocal process.	100%	2020-08-20 10:00:00 AM	2020-08-20 10:00:00 AM	00:00:00	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6. Crossing over is a non-reciprocal process.	100%	2020-08-20 10:00:00 AM	2020-08-20 10:00:00 AM	00:00:00	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7. Crossing over is a reciprocal process.	100%	2020-08-20 10:00:00 AM	2020-08-20 10:00:00 AM	00:00:00	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8. Crossing over is a non-reciprocal process.	100%	2020-08-20 10:00:00 AM	2020-08-20 10:00:00 AM	00:00:00	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9. Crossing over is a reciprocal process.	100%	2020-08-20 10:00:00 AM	2020-08-20 10:00:00 AM	00:00:00	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10. Crossing over is a non-reciprocal process.	100%	2020-08-20 10:00:00 AM	2020-08-20 10:00:00 AM	00:00:00	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

responses.

**Image of Mentimeter used for S.Y.B.Sc. Botany Sem IV class (2021-22)**

**Mentimeter:** It allows to create presentations, interactive polls, quizzes

Go to [www.menti.com](http://www.menti.com) and use the code 9079 8962

Which elements are required by plants?



*Amr*  
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**Image for Cooperative learning strategies for S.Y.B.Sc. Botany Sem III class (2022-23)**

**Brief description of the strategy adopted and the outcome for the same:** Introduction, History, Cultivation and Processing of Rice was taught to the S.Y.B.Sc. Botany Sem III students using Cooperative Learning Strategy by Dr Ketan Thatte. Study material was provided in small groups prior to the session. During session, Round Robin Discussion Strategy was followed.



Signature: Head of the department:



Mrs. Supriya Janbandhu

  
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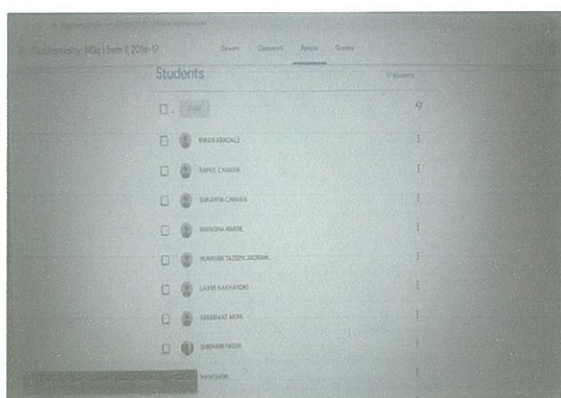


**Use of ICT-enabled tools for Teaching, Learning and Evaluation**

**2017-2022**

**Department of Biochemistry**

**Image of Google Classroom for M.Sc. I class for academic year 2016-2017**



**Image of Google Classroom for T.Y.B.Sc. class for academic year 2017-2018**

  
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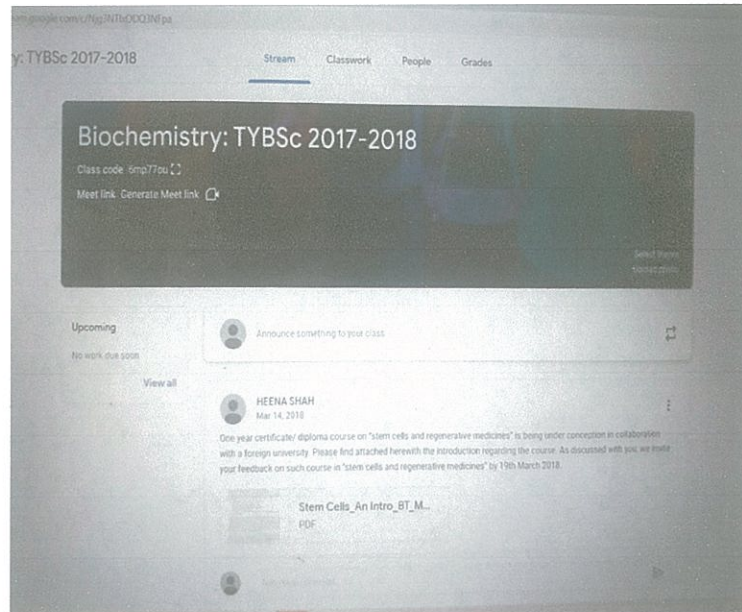
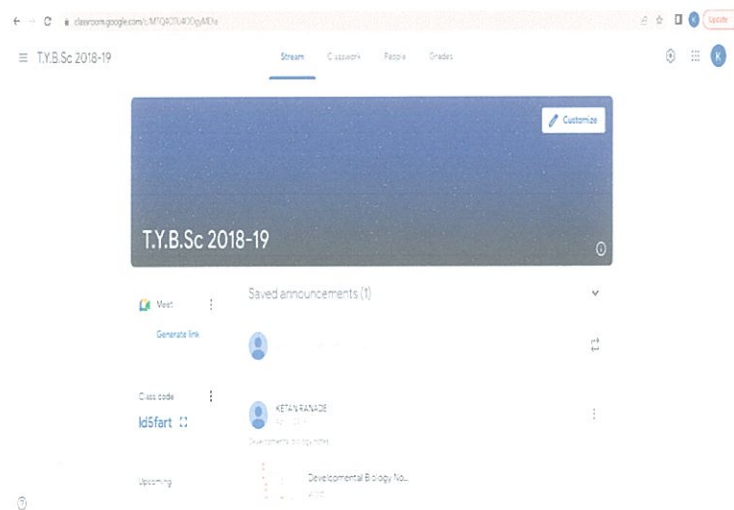


Image of Google Classroom for T.Y.B.Sc. class for academic year 2018-2019



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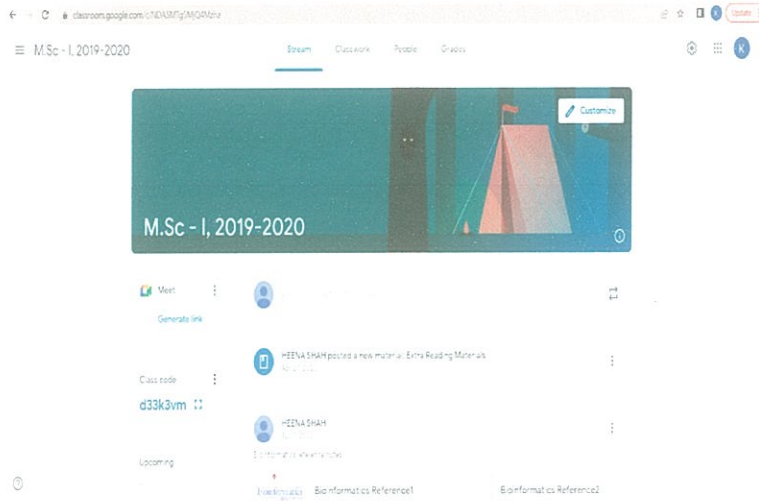


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### Image of Google Classroom for M.Sc.I class for academic year 2019-2020



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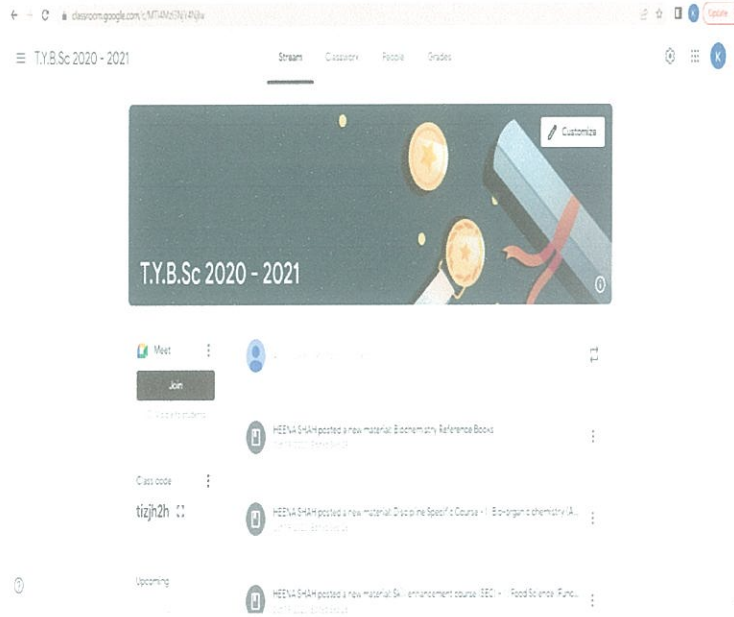


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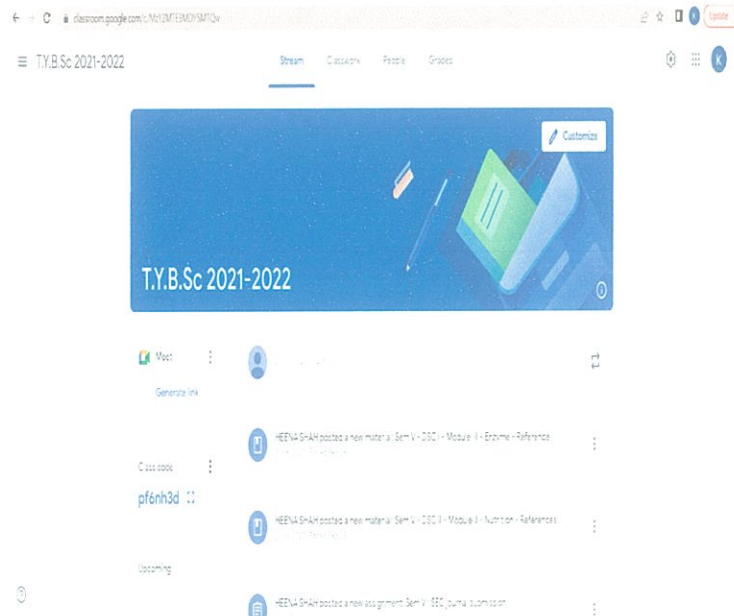
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### Image of Google Classroom for T.Y.B.Sc. class for academic year 2020-2021



### Image of Google Classroom for T.Y.B.Sc. class for academic year 2021-2022



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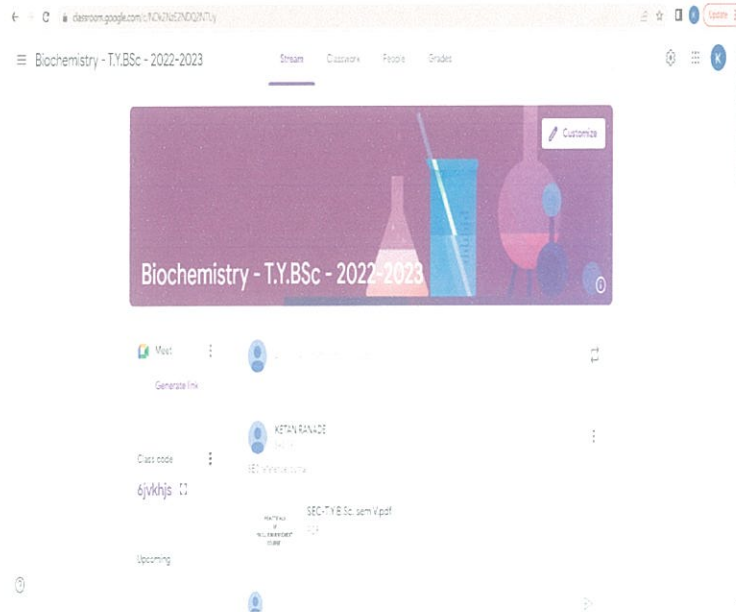
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### Image of Google Classroom for T.Y.B.Sc. class for academic year 2022-2023

**Google Classroom:** It served as an online blended learning platform which is developed by Google for educational institutes with an intention of simplifying, creating, distributing and grading assignments. It facilitated storage of enormous data/files in drive associated with classroom and enabled faster retrieval of the data. There were tools available for uploading and assessment of the Assignments. Institute has subscription at campus level to the Google Workplace.



*Samidha Pawaskar*

**Dr. Samidha Mohan Pawaskar**

**Head, Department of Biochemistry**

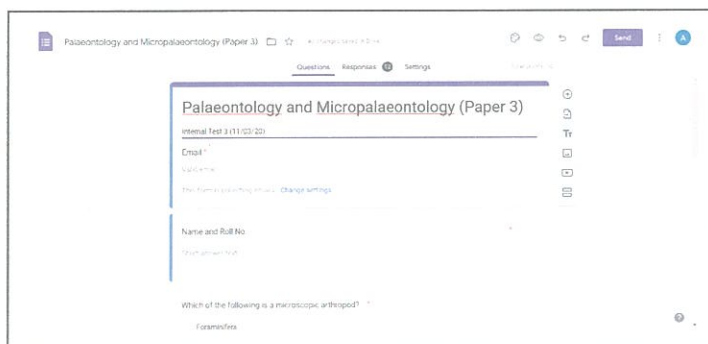
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## Use of ICT-enabled tools for Teaching, Learning and Evaluation

2017-2022

### Department of Geology



#### Image of Google form for M.Sc. I class for exam (2019-20)

**Google Form:** A teacher could design a quiz/ test taking into consideration the difficulty level of the course and paste a shortened link of the course on an appropriate platform which is accessible to the learner. Institute has subscription at campus level to the Google Workplace.



#### Image of Google Classroom for M.Sc. I class (2019-20)

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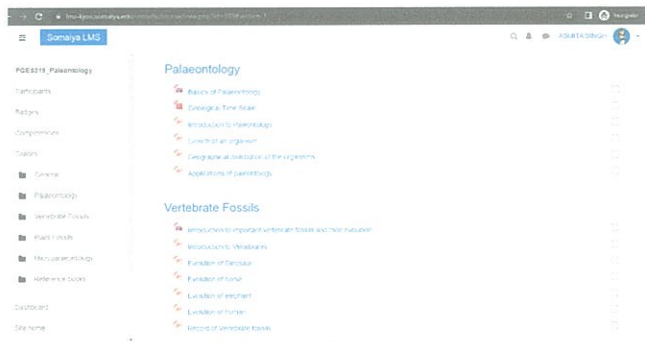


assessment of the Assignments. Institute has subscription at campus level to the Google Workplace.

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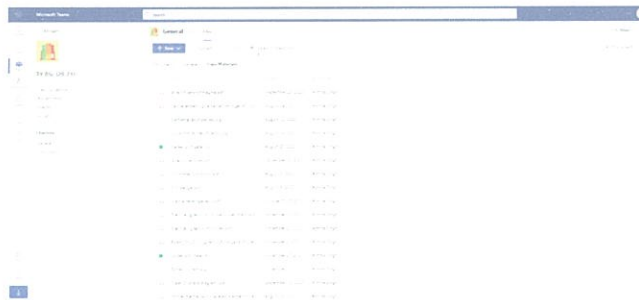
### Image of Moodle for M.Sc. I class (2021-2022)

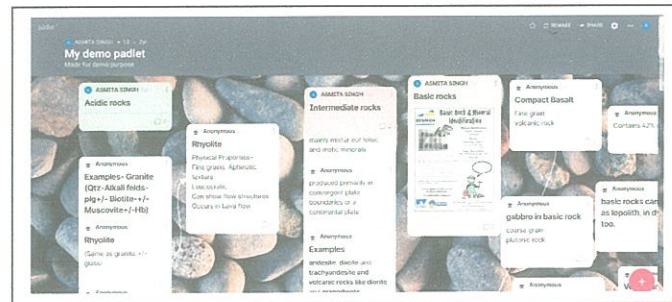
**Moodle:** It is a free and open-source learning management system. Teacher/instructor could customize the dashboard as per the requirement and facilitated better academic transactions. There were tools available for uploading and assessment of the Assignments.



### Image of MS-Teams used for T.Y.B.Sc. class (2020-2021)

**MS-Teams:** It is a proprietary business communication platform developed by Microsoft. This also consisted of tools available for uploading and assessment of the Assignments.





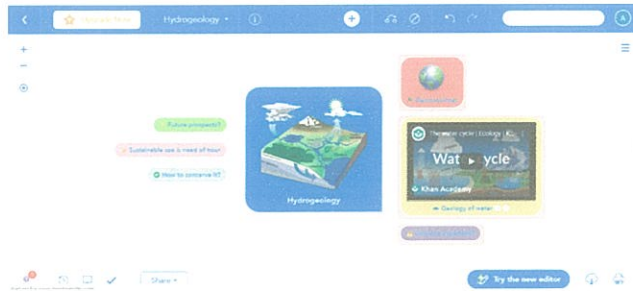
**Image of Padlet created for T.Y.B.Sc. class (2020-2021)**

**Padlet:** It is an online blank wall board that can be used by invited participants to collaborate in collecting ideas, brainstorming and sharing information. Learners could post comments, images, videos and links on any topic in real time which could be modified later. Padlet wall could be viewed by an audience by being mirrored or projected to a screen.



**Image of Polls-everywhere for T.Y.B.Sc. class (2020-2021)**

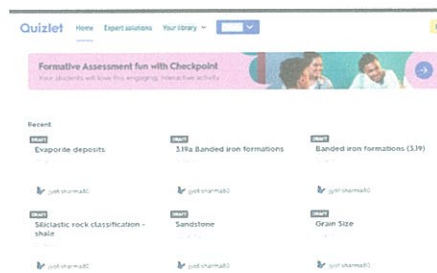
**Polls-everywhere:** It is an online response system offering real-time question and answer polls. Instructors could ask multiple choice questions, rank order, open ended questions, engage students through a word cloud or have students complete a survey with progress tracked on screen. It links to PowerPoint, Keynote, or Google Slides after an account is created. It is the easiest way to obtain the live responses of the audience/ students at any venue, conferences, classrooms, concerts etc.



### Image of MindMap for M.Sc. II class (2021-2022)

**MindMap:** A mind map is a diagram containing key words and pictures. It can show relation between all key words at all levels clearly and it can build the memory link from key words to pictures and colors. Elements of a mind map are arranged intuitively, according to the importance of concepts and marked by different colors and pictures.

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### Image of Quizlet used for T.Y.B.Sc. class (2021-22)

**Quizlet:** It allows to create live quizzes, digital flash cards.



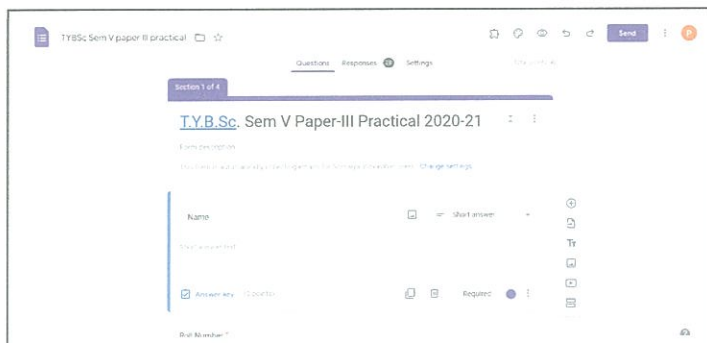
**Signature: Head of the department**



**Use of ICT-enabled tools for Teaching, Learning and Evaluation**

**2017-2022**

**Department of Mathematics**



**Image of Google form for T.Y.B.Sc. class for Practical exam (2020-21)**

**Google Form:** A teacher could design a quiz/ test taking into consideration the difficulty level of the course and paste a shortened link of the course on an appropriate platform which is accessible to the learner. Institute has subscription at campus level to the Google Workplace.



**Image of Google Classroom for S.Y.B.Sc. class (year 2021-22)**

**Google Classroom:** It served as an online blended learning platform which is developed by Google for educational institutes with an intention of simplifying, creating, distributing and grading assignments. It facilitated storage of enormous data/files in drive associated with classroom and enabled faster retrieval of the data. There were tools available for uploading and assessment of the Assignments. Institute has subscription at campus level to the Google Workplace.

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```
8:36 AM [notifications] [battery] 41%
new*
18 printf("\n determinant of nxn matrix %d",
19 determinant);
20 #include<stdio.h>
```

**Image of Cxxdroid for T.Y.B.Sc. class (2021-22)**

**Cxxdroid:** It is a free and open-source programming app. This app is used for running programs in C.

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**Signature: Head of the department**

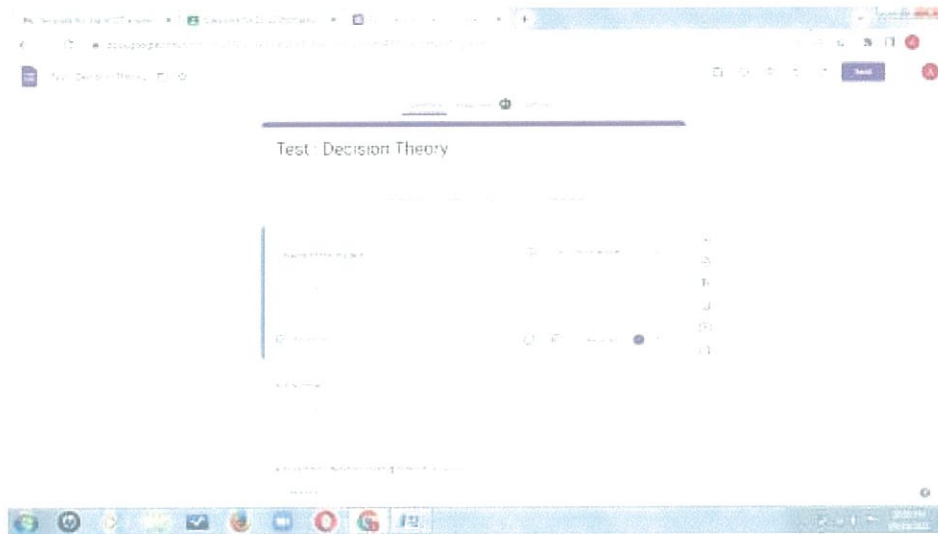
  
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## Use of ICT-enabled tools for Teaching, Learning and Evaluation

2017-2022

### Department of Statistics

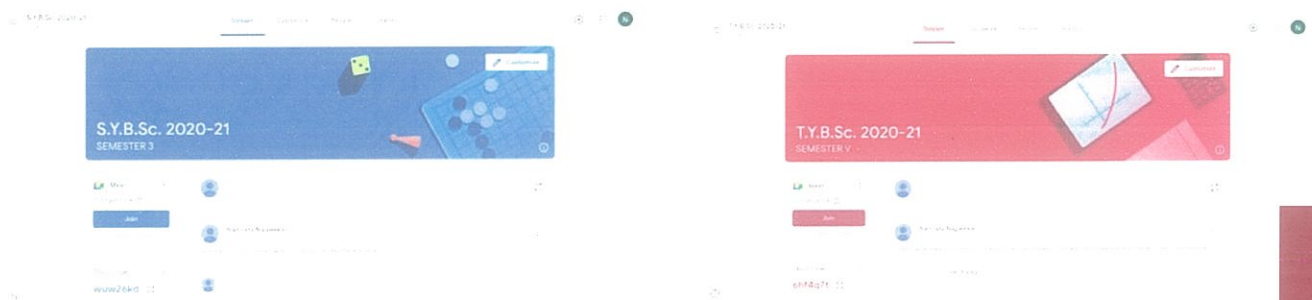


T.Y.B.Sc. – DSE – Operations Research - Internal Test 17/8/21 (Incharge: Aarti Kore)

Image of Google form for T.Y.B.Sc. class for internal exam (20-21,21-22, 22- 23)

**Google Form:** A teacher could design a quiz/ test taking into consideration the difficulty level of the course and paste a shortened link of the course on an appropriate platform which is accessible to the learner. Institute has subscription at campus level to the Google Workplace.

Namrata Nagwekar



  
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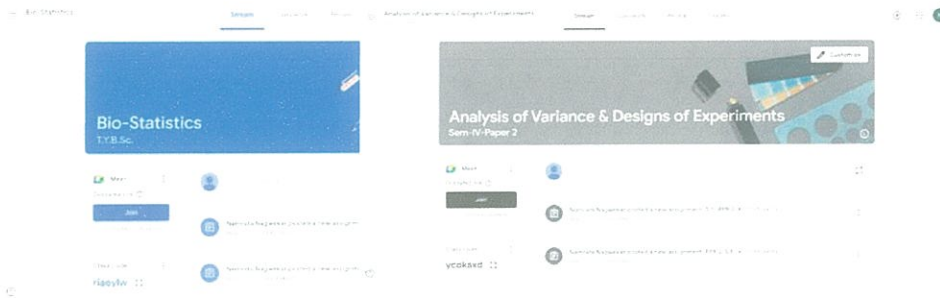




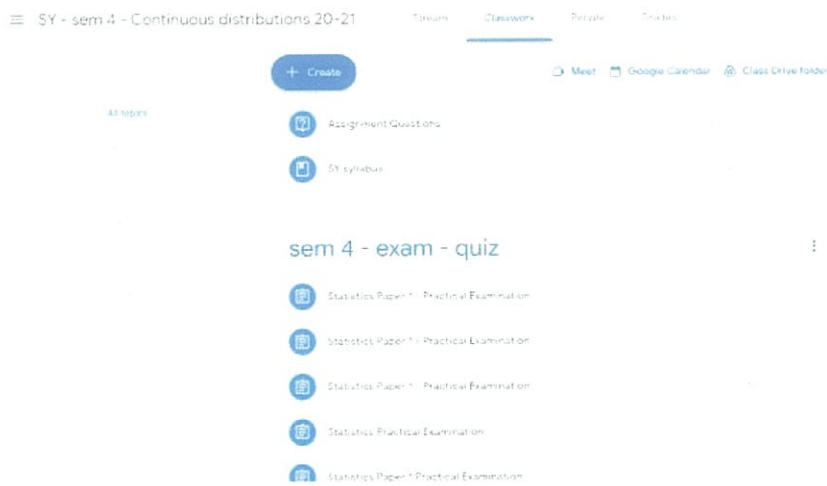


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Madhavi Jardosh



*Madhavi*  
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Prob Distributions - SY20-21 - sem 3

Stream **Classwork** People Grades

+ Create

Meet Google Calendar Class Drive folder

All files

Quiz 2 - Bernoulli - Binomial - Poisson

Quiz on MGF, DGF

Feedback on MGF, DGF

MGF quiz

### Practical Examination

MCQs based on Practical Questions

MCQs based on the Practical Questions

MCQs based on Practical Questions

Namrata Nagwekar

Bio-Stats 21-22

Stream **Classwork** People Grades

Meet Google Calendar Class Drive folder

## Bio-Stats 21-22

DSE1

Meet

Join

Class code

Class code

kvumfcg



Namrata Nagwekar



namrata.nagwekar@kvumfcg.ac.in

kvumfcg@kvumfcg.ac.in

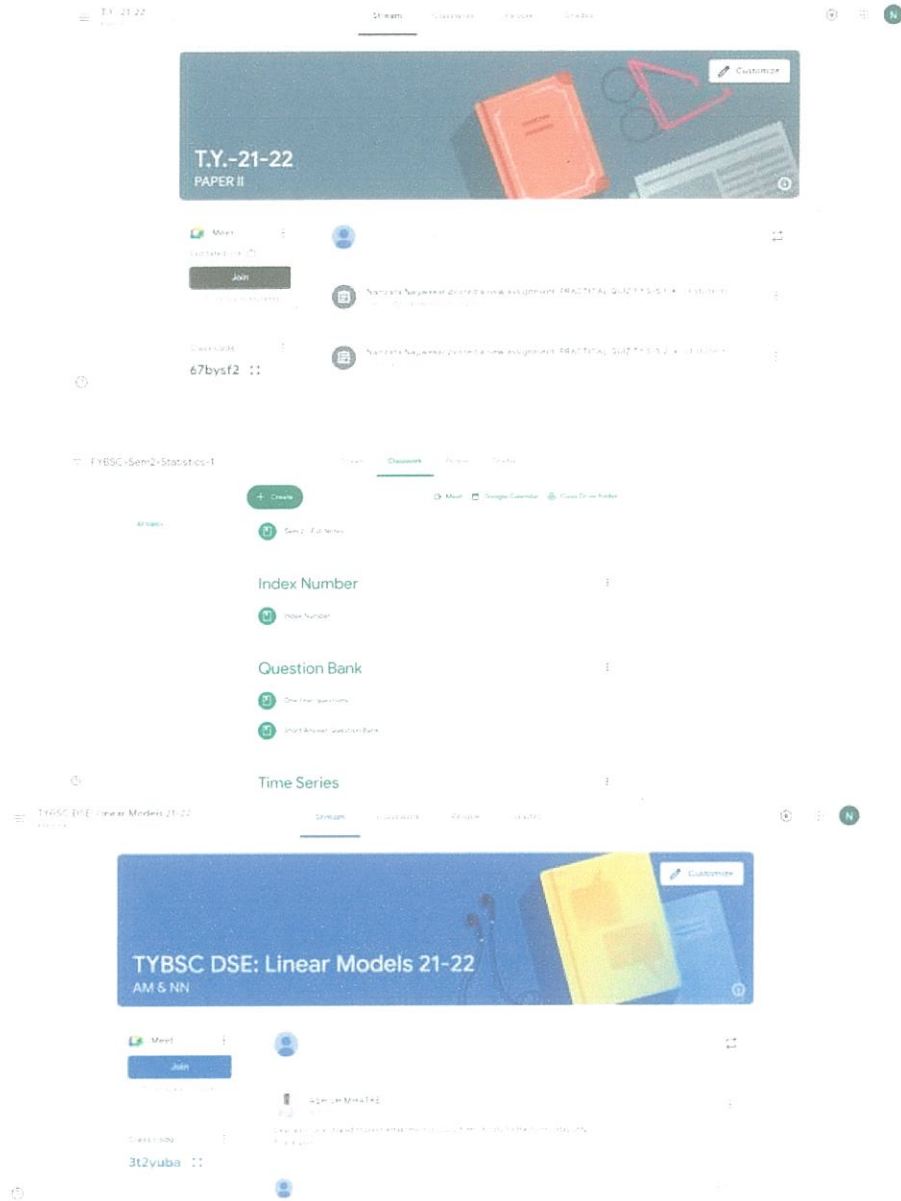
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Madhavi Jardosh

*Madhavi*  
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S.Y.B.Sc.-21-22 Stream Classwork Home Grades

**S.Y.B.Sc.-21-22**  
PAPER II

**Meet**

**Join**

**Class code**

**60qywd**

**Meeting link**

<https://meet.google.com/60qywd>

TY SEM 6 - P2 (21-22) Stream Classwork Home Grades

**Create**

**Google Calendar** **Class Drive Folder**

**CIA 1**

**Non Parametric Tests**

**Non Parametric Tests**

**CIA 2**

**SPT CIA2**

**SPT CIA2**

**SPT CIA2**

SY - SEM 4 - STATS - P1 (21-22) Stream Classwork Home Grades

**SY - SEM 4 - STATS - P1 (21-22)**

**Meet**

**Join**

**Class code**

**wvjwidp**

**Meeting link**

<https://meet.google.com/wvjwidp>

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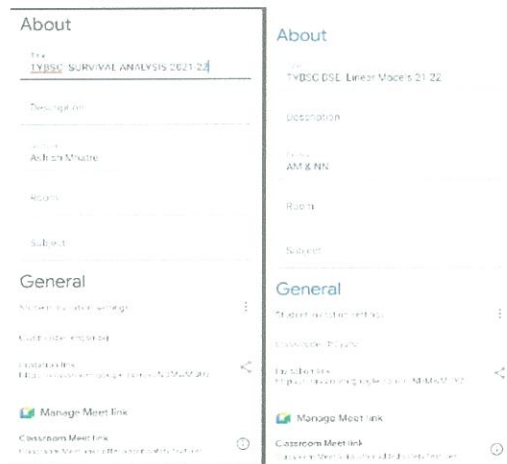
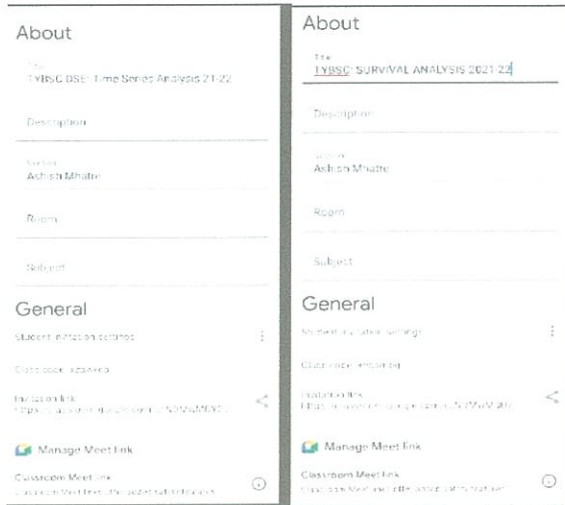


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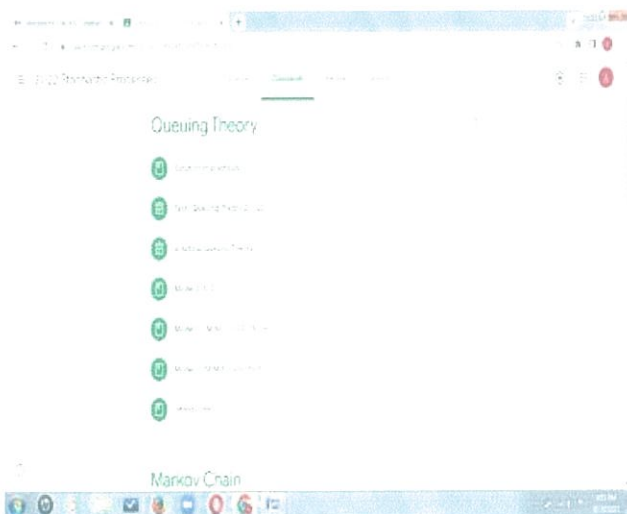
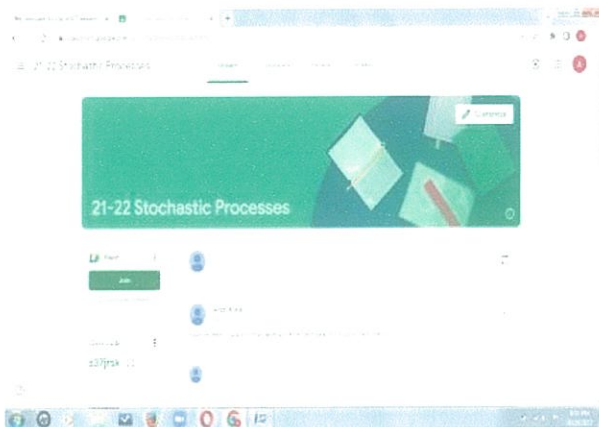
Ashish Mhatre



  
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Arati Kore



Google Classroom for T.Y.B.Sc.- Statistics – sem VI- Paper III – Stochastic Processes

Image of Google Classroom for T.Y.B.Sc. and S.Y.B.Sc. class (20-21, 21-22)

**Google Classroom:** It served as an online blended learning platform which is developed by Google for educational institutes with an intention of simplifying, creating, distributing and grading assignments. It facilitated storage of enormous data/files in drive associated with classroom and enabled faster retrieval of the data. There were tools available for uploading and assessment of





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the Assignments. Institute has subscription at campus level to the Google Workplace.

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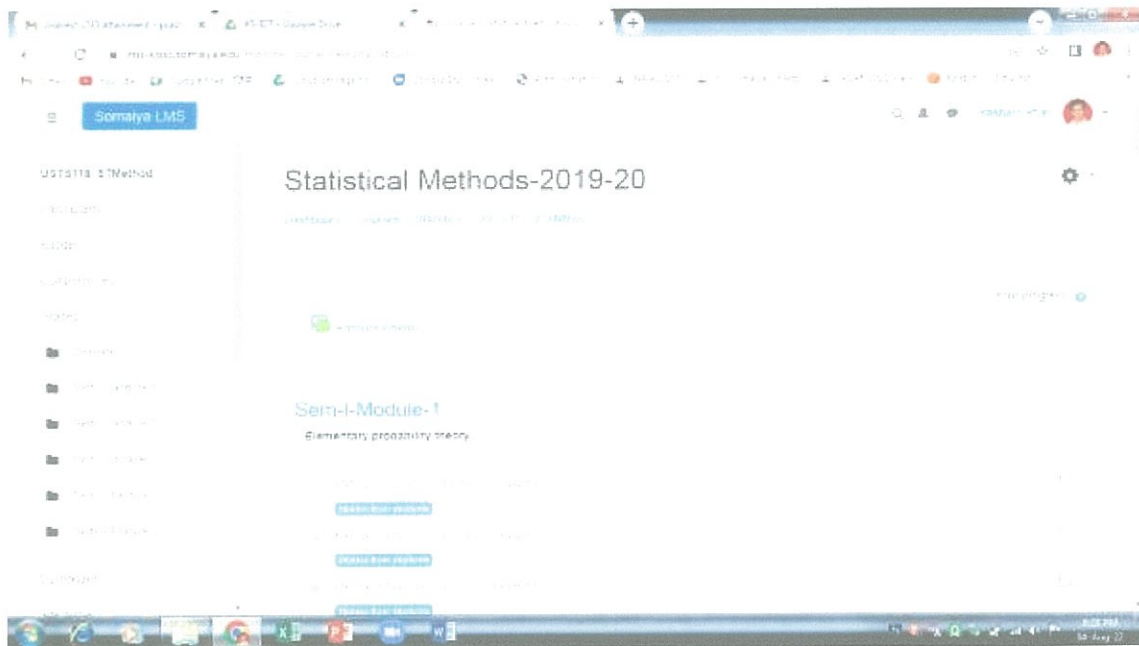


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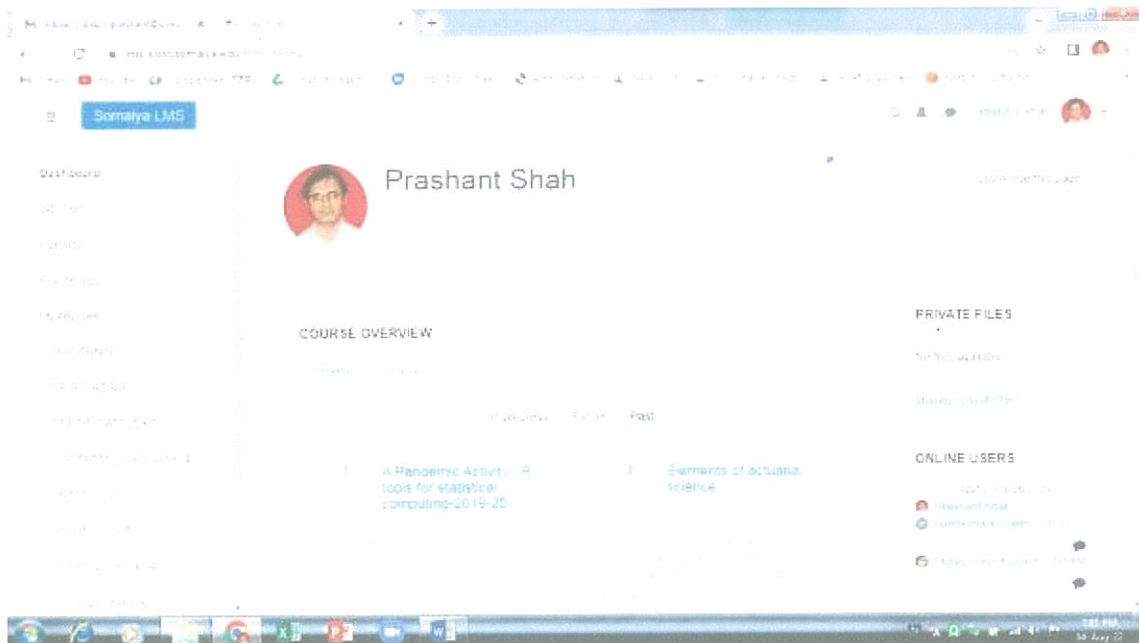
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Prashant Shah



Sem I-Paper II-19-20 Moodle classroom



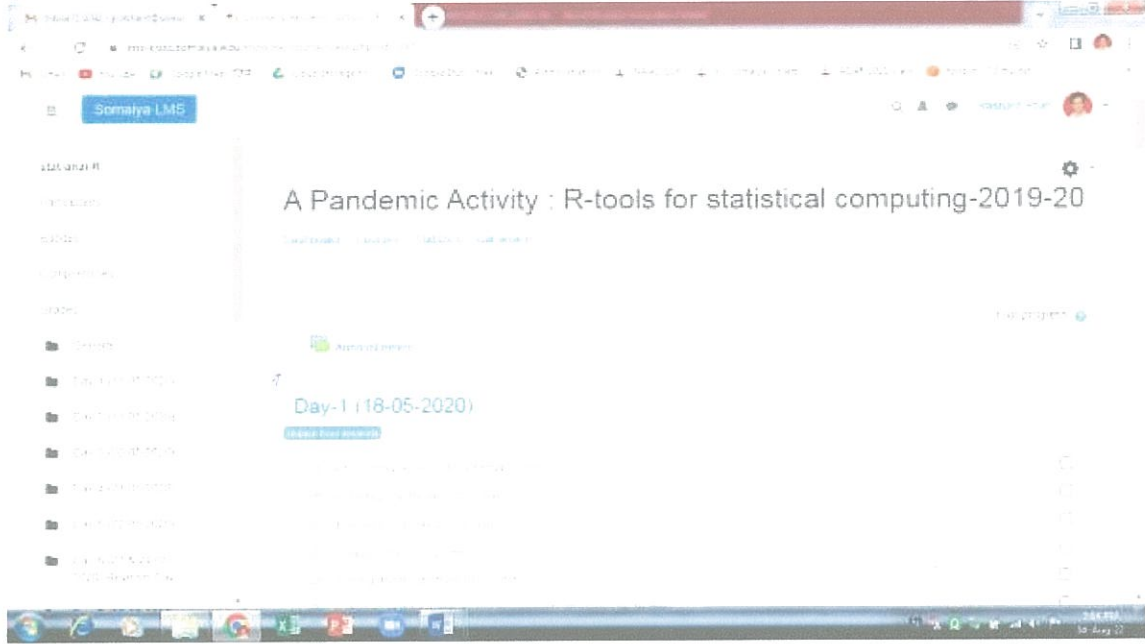
*Prashant Shah*  
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Pandemic Online workshop: R-tools for statistical computing

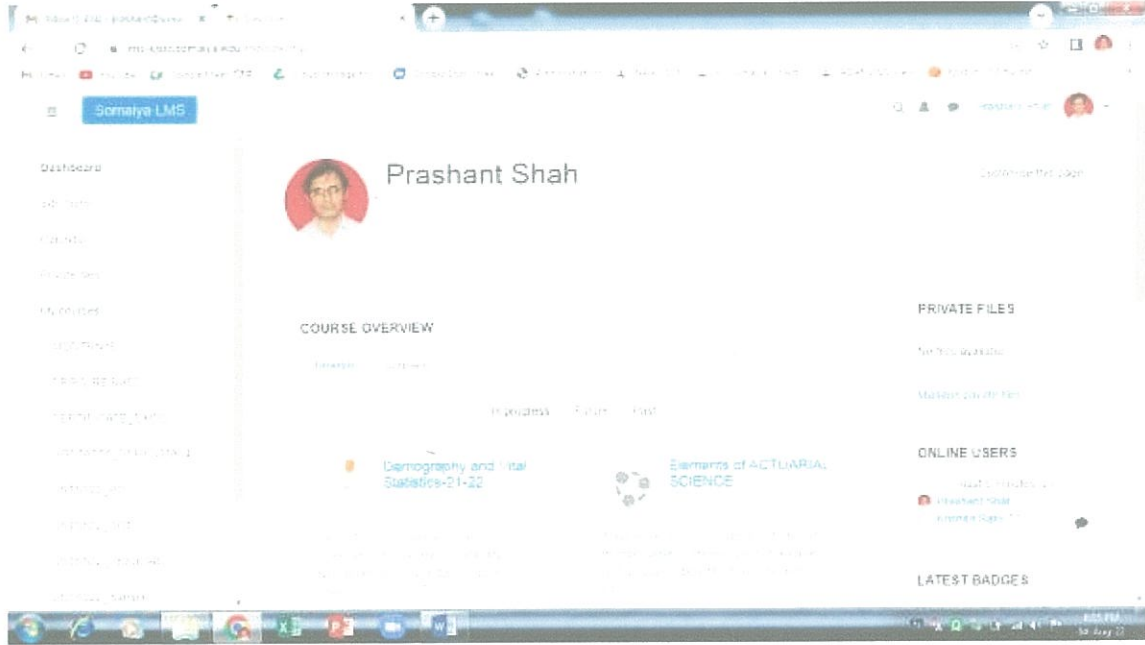
*Ambika*  
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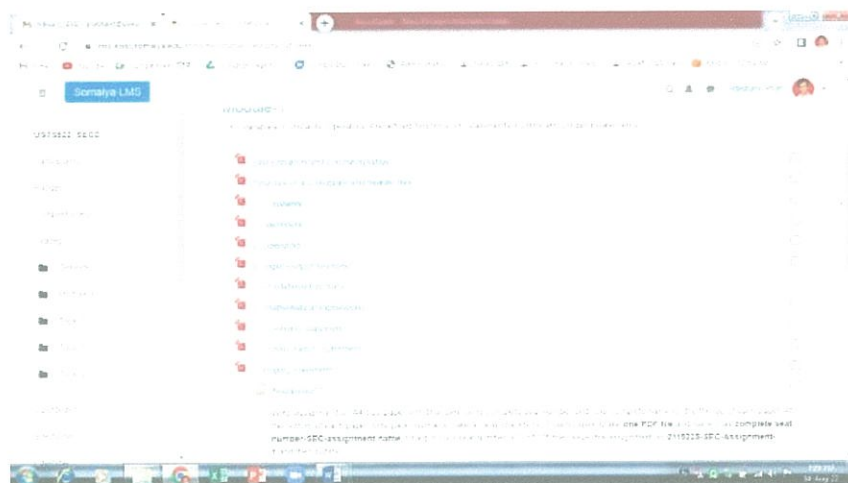
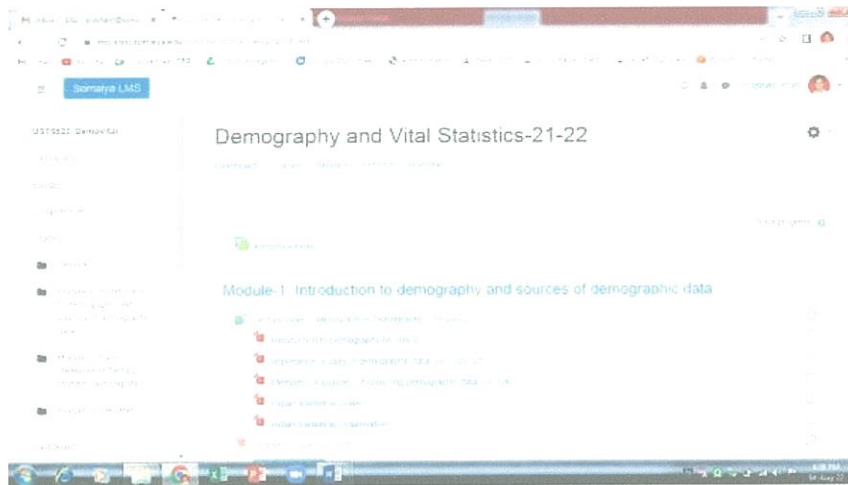
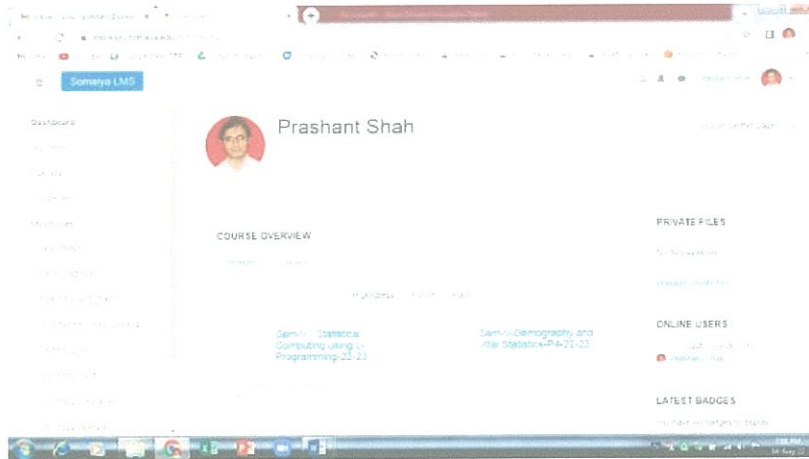


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### MOODLE – LMS (2021-22)



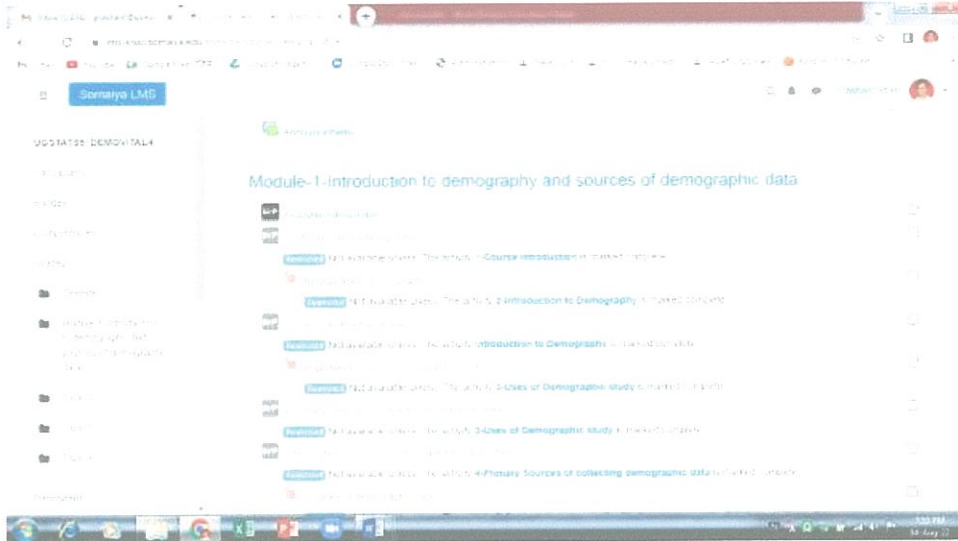
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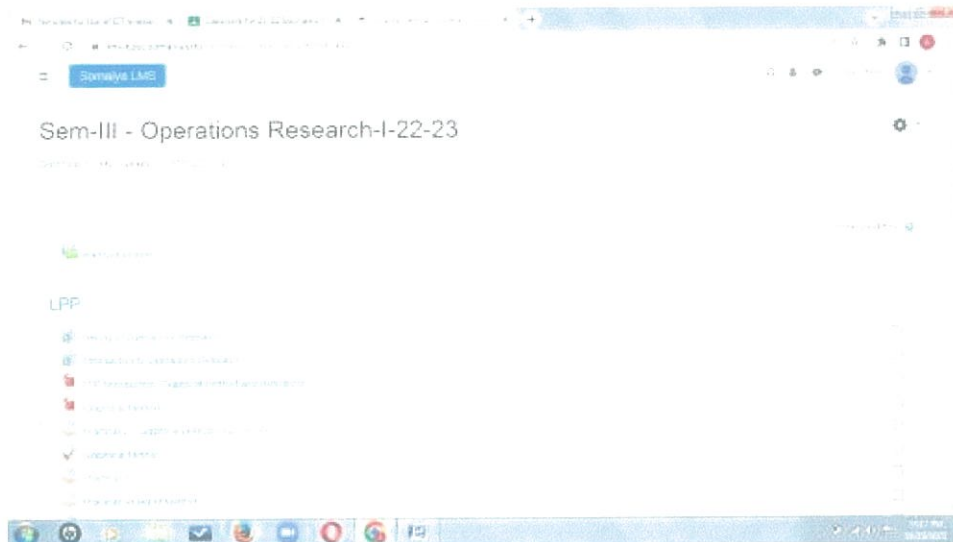


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**Aarti Kore**



**Moodle for Sem III – Paper III – Operations Research 1**

**Image of Moodle for S.Y.B.Sc., T.Y.B.Sc. class (22-23)**

**Moodle:** It is a free and open-source learning management system.

*Aarti Kore*  
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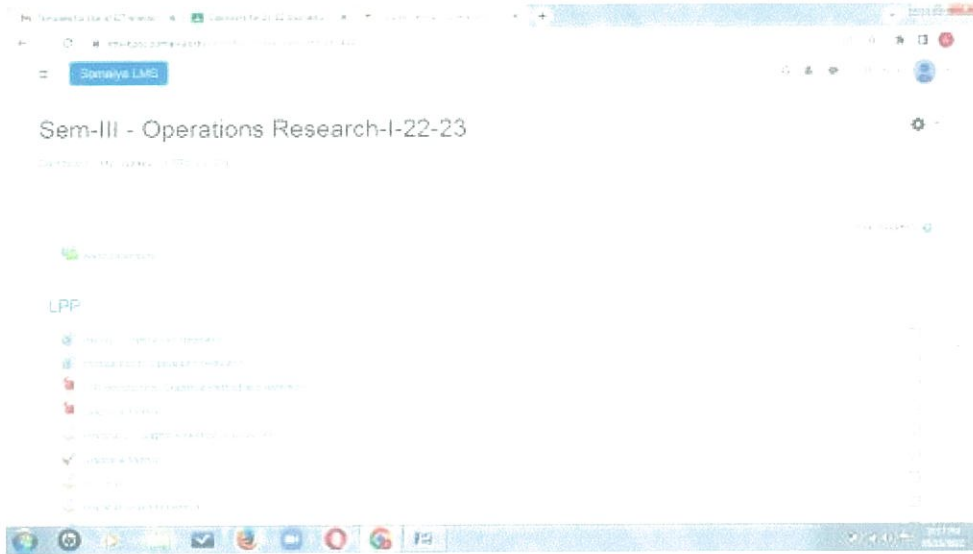


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Teacher/instructor could customize the dashboard as per the requirement and facilitated better academic transactions. There were tools available for uploading and assessment of the Assignments.



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## Moodle for Sem 3- Paper III – Operations Research – I

The screenshot shows the Moodle LMS interface. At the top, there is a navigation bar with 'Somaiya LMS' and user information for 'Madhavi Jardosh'. The main content area displays the course title 'Sem-III-Probability Distribution-1-22-23' and a list of activities under the heading 'MGF and CGF'. The activities include 'MGF definitions and Methods to obtain raw moments', 'MGF properties', 'Assignment - MGF', 'MGF Practical', 'CGF', 'CGF Practical', and 'Assignment - CGF'. Each activity has a checkbox next to it, indicating completion status. A sidebar on the left contains a menu with options like 'Participants', 'Badges', 'Competencies', 'Guides', and 'Grades'. The 'Grades' section is expanded, showing a list of topics from 'General' to 'topic 7'.

**Madhavi Jardosh**

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Somaiya LMS

USTS522\_TE

Participants

Badges

Competencies

Grades

Genera

Introduction and Unbiased Estimator

Consistency

Efficiency

Practical

Sufficiency

Methods of Estimation

Dashboard

Sem-V-Theory of Estimation-P3-22-23

Dashboard My courses UST5522 TE

Your progress

Announcements

Introduction and Unbiased Estimator

- Introduction
- Unbiased Estimator 1
- Unbiased Estimator 2
- Unbiased Estimator Questions
- U E Assignment

Consistency

- Consistency
- Consistency assignment

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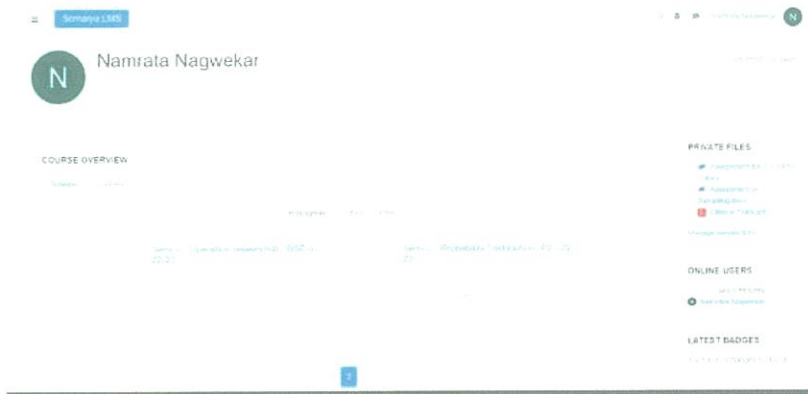


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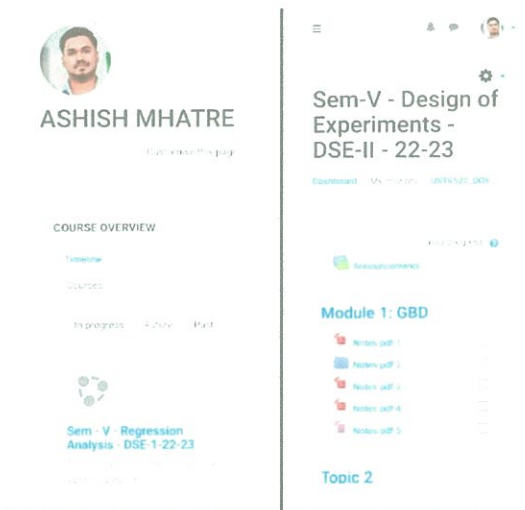
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### Namrata Nagwekar



### Ashish Mhatre



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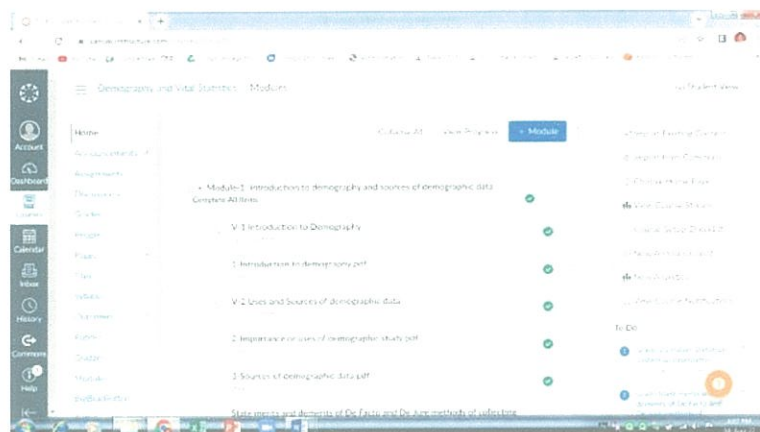
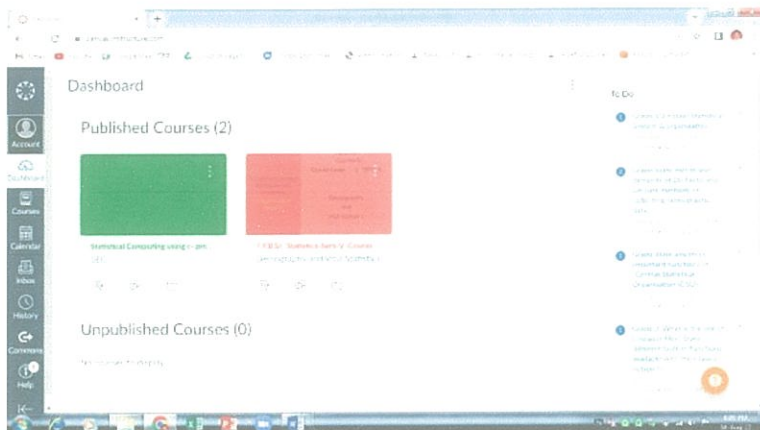
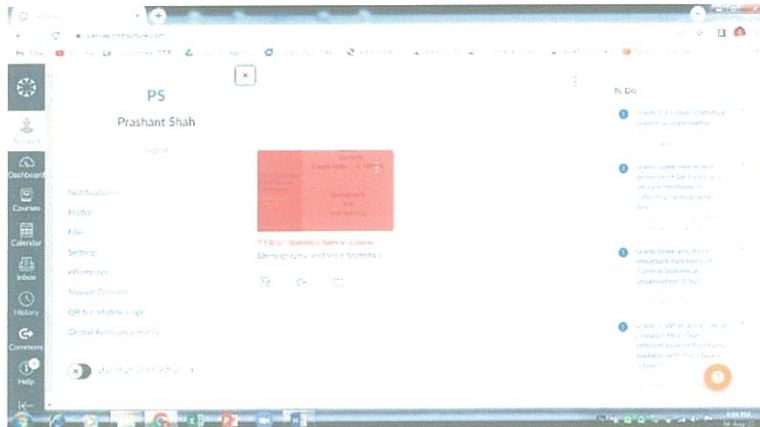


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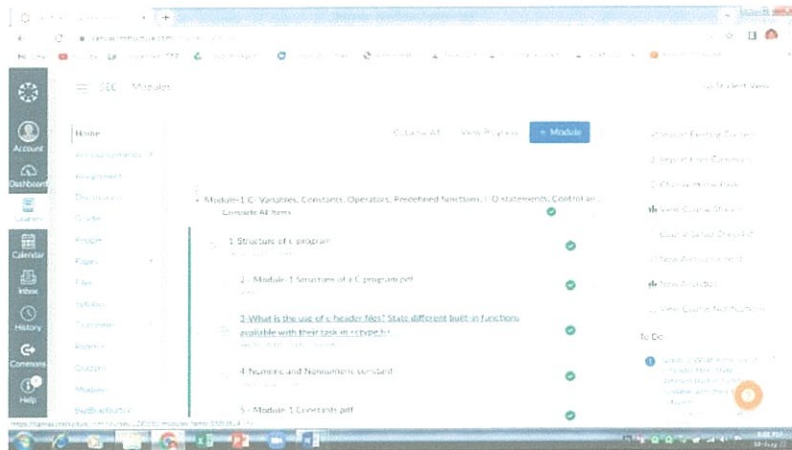
Prashant Shah



*Prashant Shah*  
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**Image of Canvas used for T.Y.B.Sc. class (2020-21)**



*Prashant*

**Signature: Head of the department: Mr. Prashant Shah**

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## Use of ICT-enabled tools for Teaching, Learning and Evaluation

2017-2022

### Department Of Physics

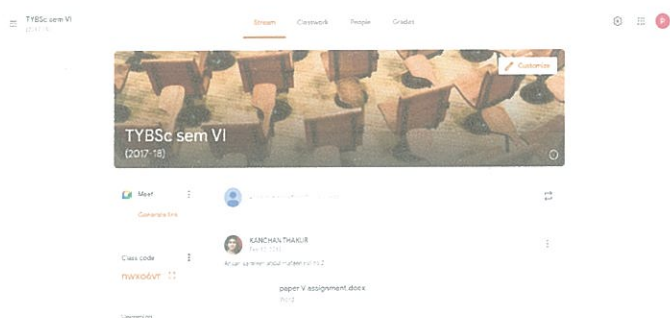


Image of Google Classroom for T.Y.B.Sc. Sem VI (Applied Physics) class (2017-18)

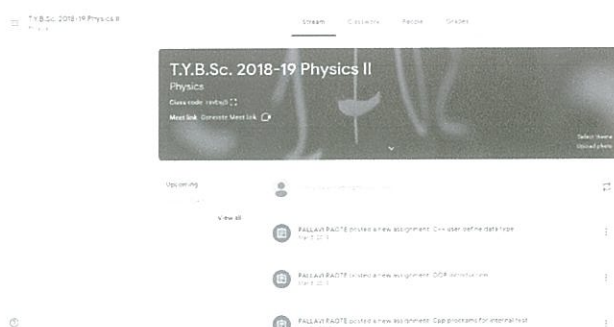


Image of Google Classroom for T.Y.B.Sc. Sem V (Physics II) class (2018-19)

**Google Classroom:** It served as an online blended learning platform which is developed by Google for educational institutes with an intention of simplifying, creating, distributing and grading assignments. It facilitated storage of enormous data/files in drive associated with

classroom and enabled faster retrieval of the data. There were tools available for uploading and assessment of the Assignments. Institute has subscription at campus level to the Google Workplace.

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**Image of Google form for M.Sc. sem III paper IV for Internal exam (2019-20)**

**Google Form:**

A teacher could design a quiz/ test taking into consideration the difficulty level of the course and paste a shortened link of the course on an appropriate platform which is accessible to the learner. Institute has subscription at campus level to the Google Workplace.

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**Image of screencasts created for S.Y.B.Sc. Sem IV Paper I class (2020-21)**

**Screen casts:** It consists of digital recording of computer screen output, also known as video screen capture often containing audio narration. In other words, screencast is a movie of the changes overtime that a user sees over a computer screen, which is enhanced with audio narration. This helped teachers to create a content explaining a process in which every step could be supported by a comprehensive audio narration.



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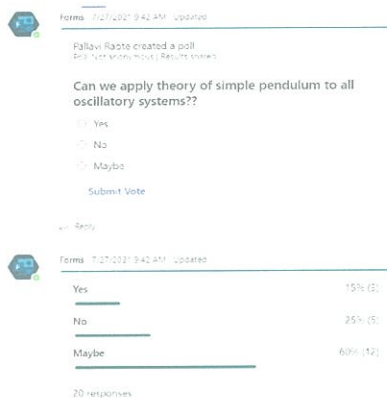
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### Image of MS teams Poll & Polly for S.Y.B.Sc. sem I Physics – I class (2020-21)

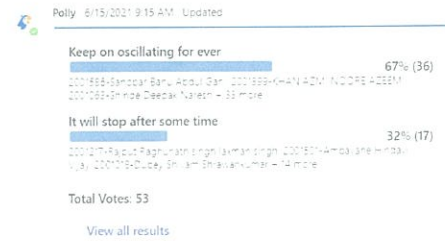
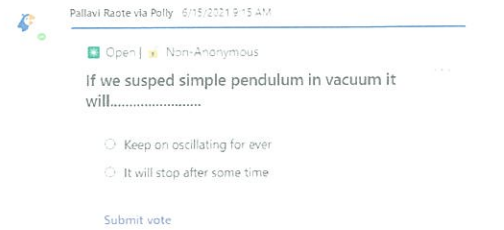
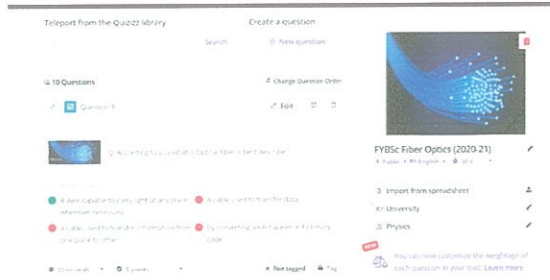
**Ms Teams :** It is an online response system offering real-time question and answer polls. Instructors could ask multiple choice questions, rank order, open ended questions, engage students through a word cloud or have students complete a survey with progress tracked on screen. It links to PowerPoint, Keynote, or Google Slides after an account is created. It is the easiest way to obtain the live responses of the audience/ students at any venue, conferences, classrooms, concerts etc.



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### Image of Quizzes used for F.Y.B.Sc. Physics – I class (2020-21)

Quizzes It allows to create live quizzes in interactive way

### Image of Kahoot used for T.Y.B.Sc. Sem VI DSE- II class (2021-22)

**Kahoot:** It is a tool for using technology to administer quizzes, discussions, or surveys. It is a game-based classroom response system played by the whole class in real time. Multiple choice system questions are projected on the screen and students answer the questions with their smart-phone, tablet or computer.

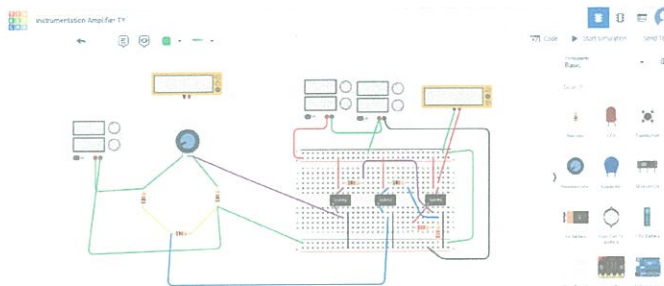


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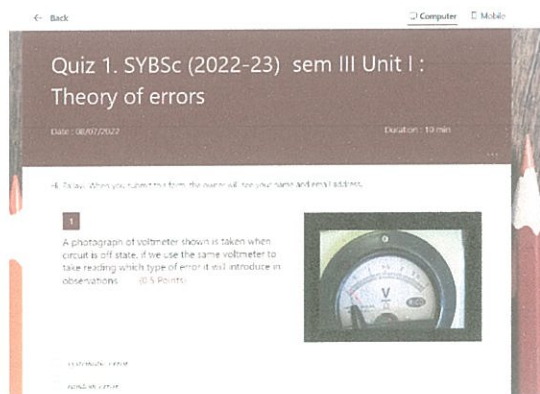
**Image of Tinkercad used for T.Y.B.Sc. class (Practical) (2021-22)**

**Tinkercad:** This is a free web app for 3D design, electronics, and coding. It allows to build the real circuit on breadboard and simulate it to observe results. It's useful to give feeling of real world practical situations. Used by teachers to demonstrate the working of circuit during practical and theory as well as assign to students to perform few of the practical during pandemic situation.



**Image of MS Teams form for S.Y.B.Sc. sem III paper I for Internal evaluation (2012-23)**

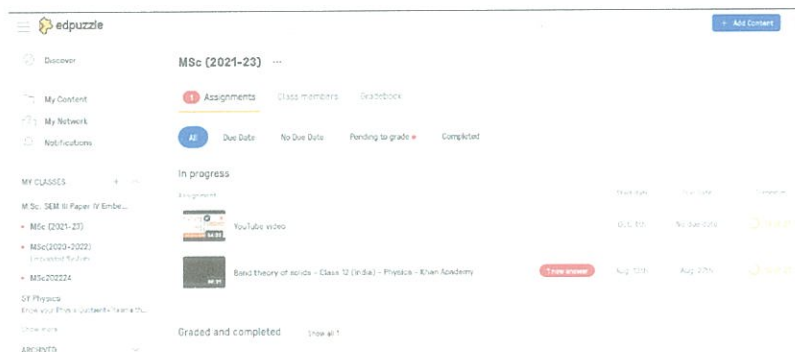
**MS Teams Forms:** A teacher could design a quiz/ test taking into consideration the difficulty level of the course and paste a shortened link of the course on an appropriate platform which is accessible to the learner. Institute has subscription at campus level to the MS teams.



**Image of Edpuzzle used for M.Sc. Sem III class (2021-23)**

Edpuzzle :

Edpuzzle is an all-in-one video learning platform for student engagement. Easily create interactive video lessons for your students that can integrate right into your LMS. Get real-time data on who watched the video and how many questions they answered correctly.



**Image of Multisim Simulator Used for T.Y.B.Sc. and M.Sc. (2019-20 and 2020-21)**



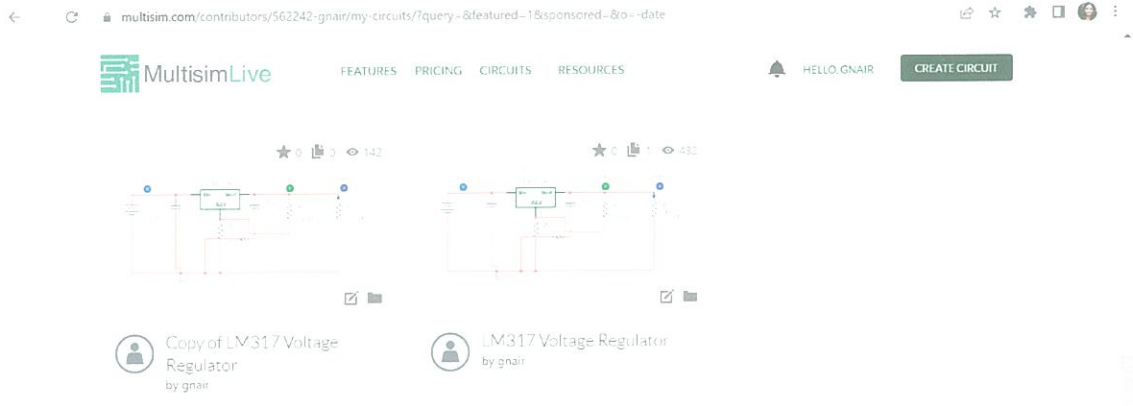
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Multisim Live is an interactive circuit simulator which allows one to create and test a circuit. It is an extremely useful tool to illustrate concepts to students. One can share these simulations without installing any software applications.

**Dr. Deepak More**

**Head of the department**

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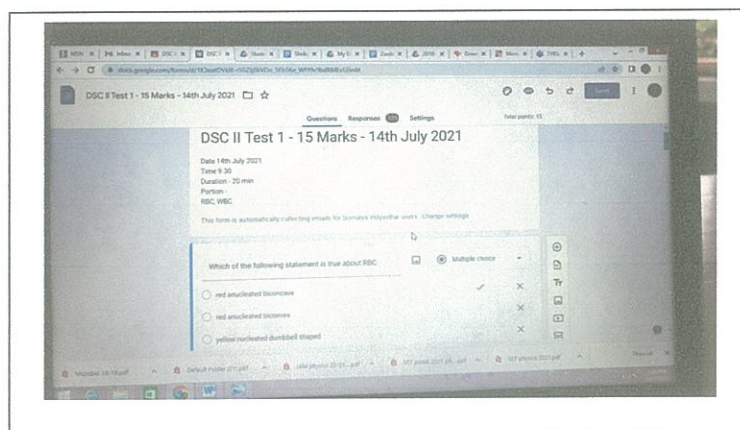
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## Use of ICT-enabled tools for Teaching, Learning and Evaluation

2017-2022

Department of Zoology



### Image of Google form for T.Y.B.Sc. class for DSCII Internal exam (21-22)

**Google Form:** A teacher could design a quiz/ test taking into consideration the difficulty level of the course and paste a shortened link of the course on an appropriate platform which is accessible to the learner. Institute has subscription at campus level to the Google Workplace.

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**Image of Google Classroom for F.Y.B.Sc. Sem 1 (2021-22)**



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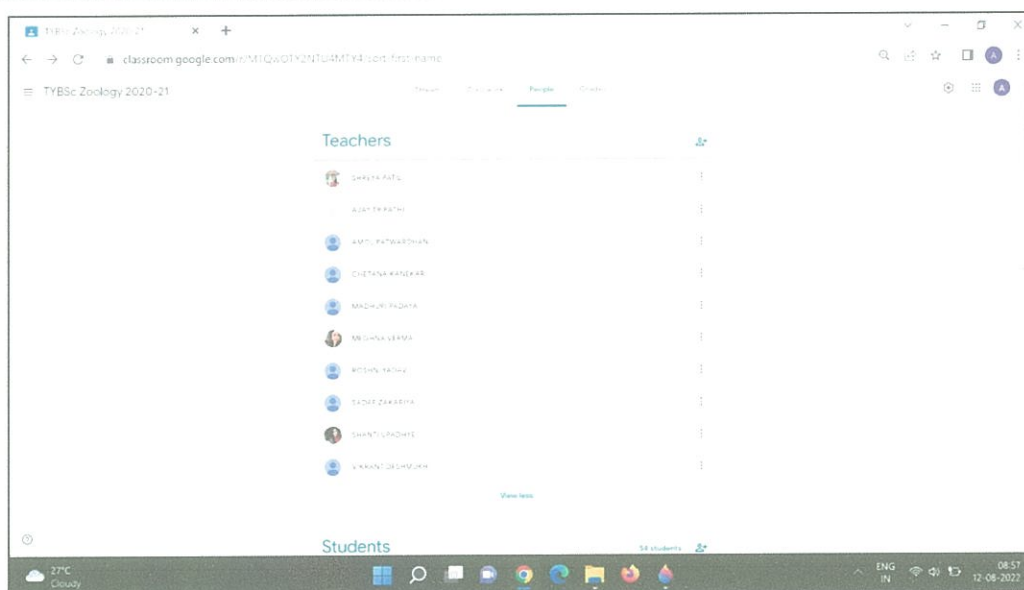
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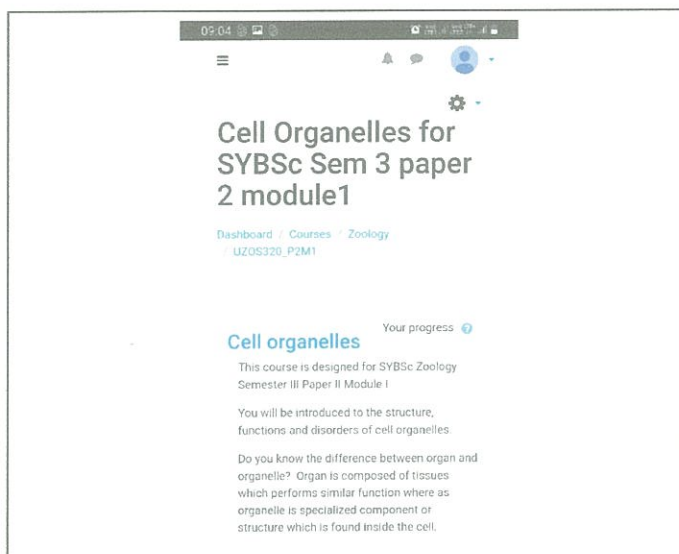
## Image of Google Classroom for T.Y.B.Sc. Zoology (2020-21)

**Google Classroom:** It served as an online blended learning platform which is developed by Google for educational institutes with an intention of simplifying, creating, distributing and grading assignments. It facilitated storage of enormous data/files in drive associated with classroom and enabled faster retrieval of the data. There were tools available for uploading and assessment of the Assignments. Institute has subscription at campus level to the Google Workplace.



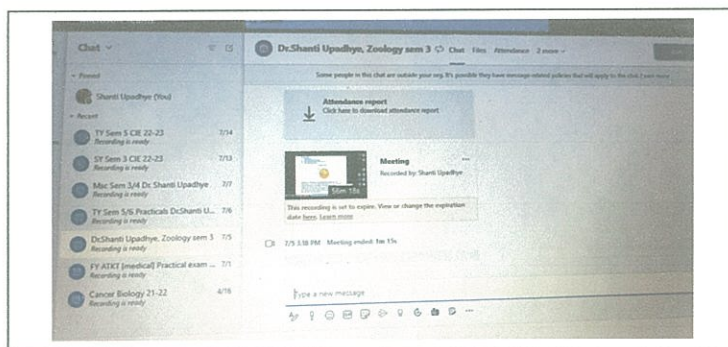
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**Image of Moodle for S.Y.B.Sc. Zoology Sem 3 class (2021-22)**

**Moodle:** It is a free and open-source learning management system. Teacher/instructor could customize the dashboard as per the requirement and facilitated better academic transactions. There were tools available for uploading and assessment of the Assignments.



**Image of MS-Teams used for S.Y.B.Sc. Sem 3 class (21-22)**

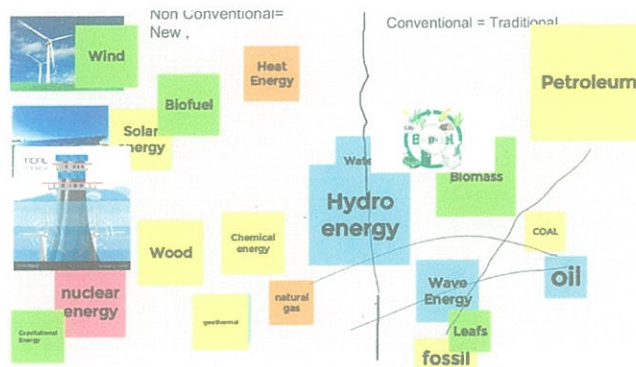
**MS-Teams used**

**MS-Teams:** It is a proprietary business communication platform developed by Microsoft. This also consisted of tools available for uploading and assessment of the Assignments.



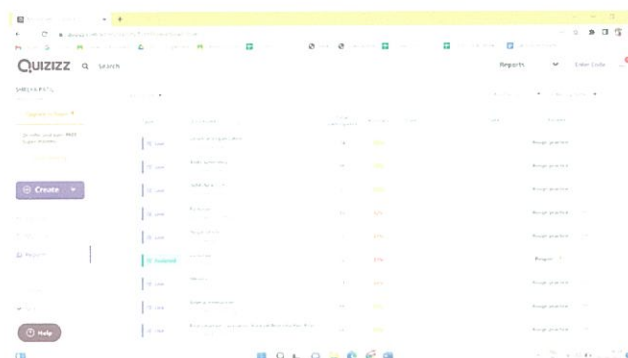
**Image of Jam Board created for T.Y.B.Sc. class (2020-21)**

**Jam Board:** Jam board is a digital interactive whiteboard developed by Google to work with Google Workspace, formerly known as G Suite. It was officially announced on 25 October 2016. It has a 55" 4K touchscreen display and can be used for online collaboration using Google Workspace. *Jamboard is a cloud-based app that enables visual collaboration between users in real-time. So students can simultaneously share their views on a topic and have a discussion.*



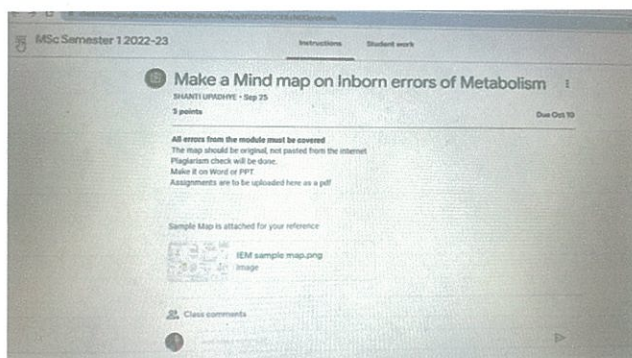
**Image of Quizziz for F.Y.B.Sc. (2021-22)**

**Quizziz:** Quizziz is an Indian educational software company headquartered in Bengaluru, India, that creates and sells a gamified student engagement platform. The software is used in class, group assignments, pre-test review, formative assessments and pop quizzes. It is the easy and fun way to quickly gauge the level of grasping of the audience/ students.



### Image of MindMap for M.Sc. I class (22-23)

**MindMap:** A mind map is a diagram containing key words and pictures. It can show relation between all key words at all levels clearly and it can build the memory link from key words to pictures and colors. Elements of a mind map are arranged intuitively, according to the importance of concepts and marked by different colors and pictures.



### Image for Cooperative learning strategies for M.Sc II class (21-22)


Brief description of the strategy adopted and the outcome for the same: Round robin strategy of co-operative learning is employed extensively to make group study fun and to increase class cooperation and team work. A topic is broken into parts and each is given to a group. Then one member from the each group moves to the next, in this manner all the parts are completed.



Signature: Head of the department



**Dr. Vikrant Deshmukh**

  
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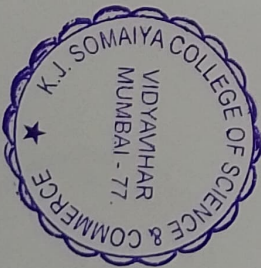


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The Department of Business Law uses ICT aids namely Mind master and Power Point Presentations to engage lectures and Google classrooms for posting materials and to conduct internal tests



*Abhil*  
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# Classification of Bailment

- **On the basis of reward**

1. **Gratuitous**

There is No consideration

A lends his car to B without charging him

2. **Non- Gratuitous**

There is consideration

A gives his car to B on hire

- **On the basis of benefit**

1. For the benefit of the Bailor
2. For the benefit of the Bailee
3. For the benefit of both the Bailor & the Bailee



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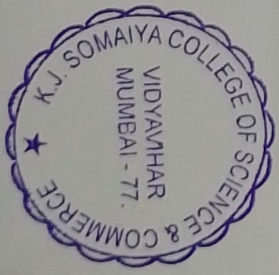
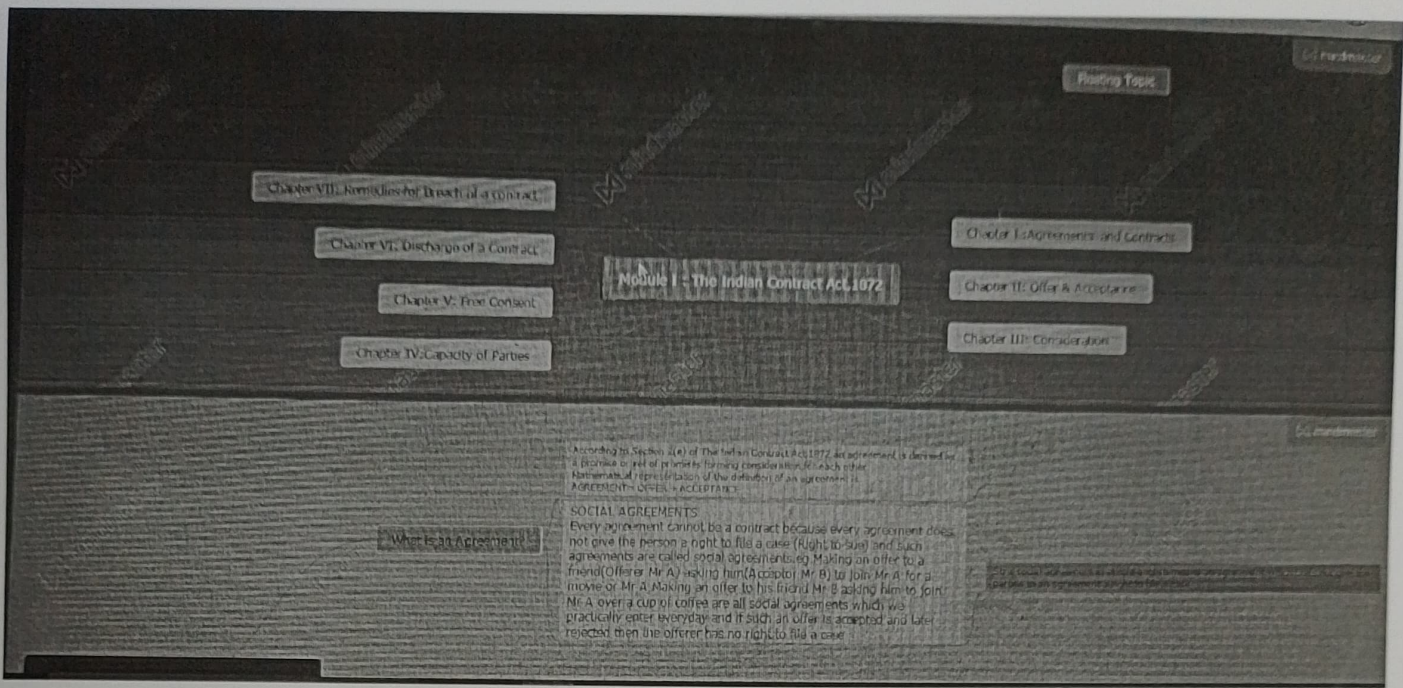


Dr Archana Padgaonk...



*Archana*  
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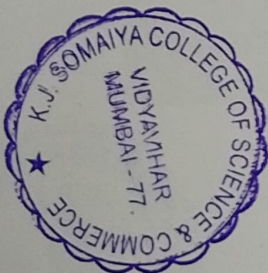
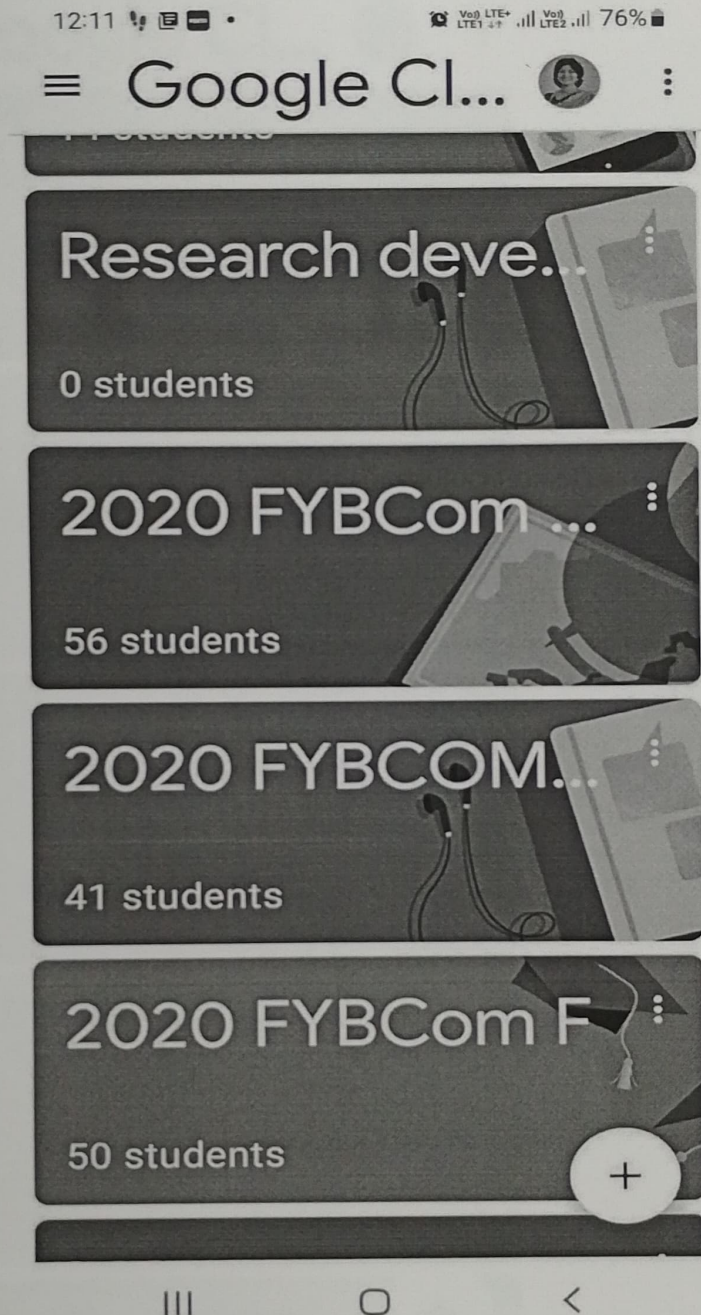


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ICT TOOLS USED BY BUSINESS COMMUNICATION DEPARTMENT



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11:52

VoLTE+ LTE1 79%

Google Cl...

2021-22 Bus C...

88 students

2021-22 FYBC...

92 students

2021-22 FYBC...

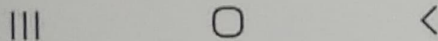
87 students

CA/CS/CMA L...

CA/CS/CMA

111 students

BC ATKT SEM 1...



*Abhinav*  
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ICT TOOLS USED BY BUSINESS COMMUNICATION DEPARTMENT

- 22:43 46%
- Posted 26 Feb
  - sem II internal test**   
Posted 25 Feb
  - trade letters**   
Posted 22 Feb
  - questions sem 2**   
Posted 22 Feb
  - questions MCQ PR and...**   
Posted 14 Feb
  - Ppt interview**   
Posted 14 Feb
  - sem 2 internal 15 mark...**   
Posted 11 Feb 2

Stream Classwork People

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