RABINDRA MAHAVIDYALAYA



Affiliated to The University of Burdwan CHAMPADANGA, HOOGHLY, PIN-712401 Estd. -1971



Ref. No.....

Date:....

2.3.1 – Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT –enabled tools including online resources for effective teaching and learing process

<u>Teachers use ICT –enabled tools including online resources</u> <u>for effective teaching and learing process</u>

List of content:

- Documents for various E-resources and Techniques used for the session 2022-23
- Documents for various E-resources and Techniques used for the session 2021-22
- Documents for various E-resources and Techniques used for the session 2020-21



Session 2022-23

Teachers use ICT enabled tools for effective teaching-learning process.



RABINDRA MAHAVIDYALAYA

Affiliated to the University of Burdwan Champadanga, Hooghly, West Bengal, Pin.-712401

Estd.- 1971

Date.....

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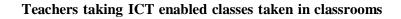
Session 2022-23

2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

Along with offline classes some Departments also use online mode of teaching. Google Meet, Zoom, Youtube links, Jamboard in Google meet and Tesmoz App have been used. For this purpose Desktop, laptop, LCD projector, printer, pen drive, Mobile Smart phone, microphone, scanner, external hard drive, sound system etc were used by the various Departments. Video, PPT, PDF,WORD documents, excel, e-resources, e-journals, e-books, notes etc. study materials were provided to the students during this academic session. E-Journals and e-books were used for effective teaching and learning. A few numbers of ICT enabled classrooms were developed in some Department and also in the college campus as central facilities.

DEPARTMENT OF BOTANY

Snapshots/ screenshots of E-resources and techniques used in 2022-23

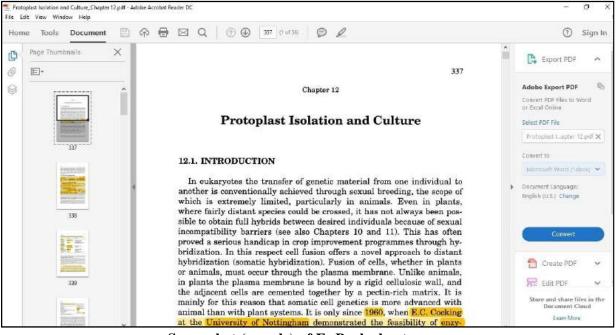










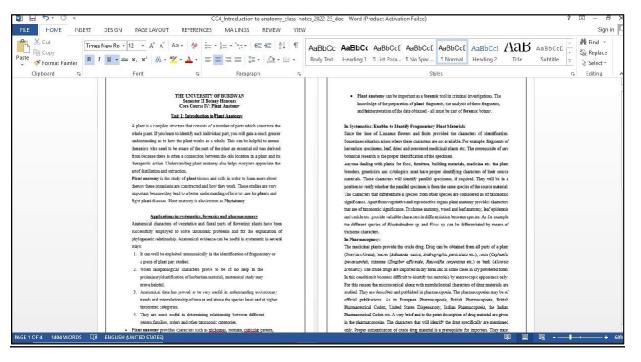


Screenshot (sample) of E- Book chapter

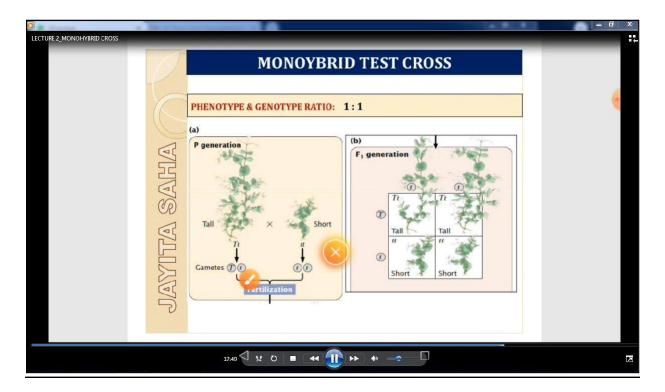
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Screenshot (sample) of E- Journal Resource





Screenshot (sample) of Word Doc. as class notes provided to students





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Screenshot of video (sample)

Department of Defence Studies(2022-23)



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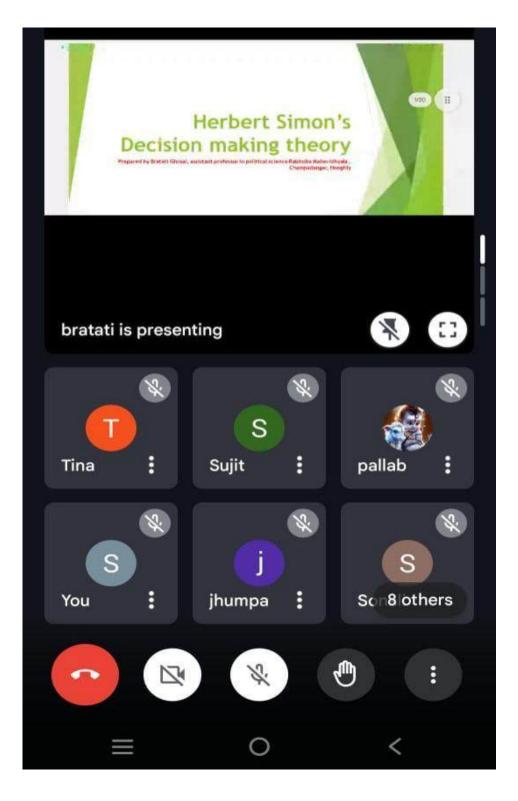


Department of Political Science(2022-2023)

Result of sample class test taken with the use of testmoz app

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<u>Cuheli jana</u>	25% (5/20)
Priya Ghosh	65% (13/20)
SK RIYAZUDDIN	50% (10/20)
Sneha das	45% (9/20)
Ineha Das	50% (10/20)
ineha das	45% (9/20)
ineha Das	55% (11/20)
Suktara khatun	50% (10/20)
iwagata Banerjee	35% (7/20)
	∢(





Sample ppt presentation for sem -3, paper CC-6



DEPARTMENT OF GEOGRAPHY(2022-2023)



Photo. Ongoing RS GIS class in the Department of Geography –An example of ICT enabled class



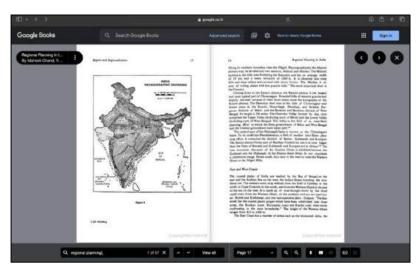


Figure. Making sense of intricate regional geography mapping using Google Books



Figure. Using Google Books to help understand complex climate diagrams

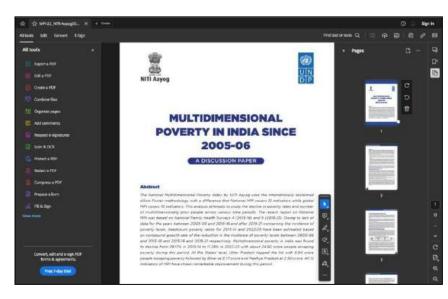
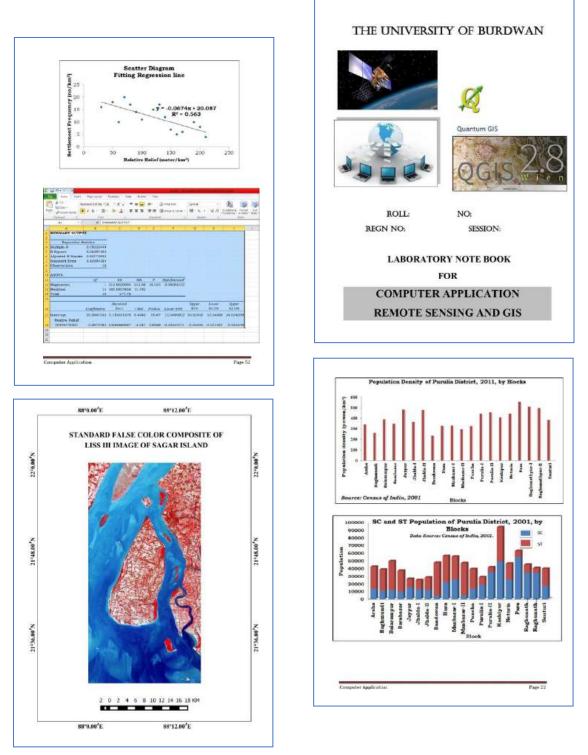


Figure. Sample ediscussion paper for understanding theory of Economic Geography





Figures. Students of Geography have done project work using ICT enabled tools

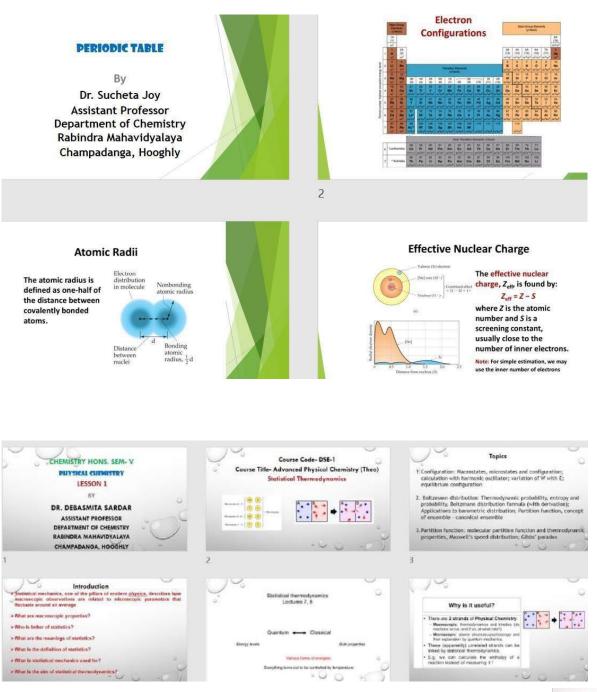


Department of Chemistry (2022-2023)

Snapshots/ screenshots of E-resources and techniques used

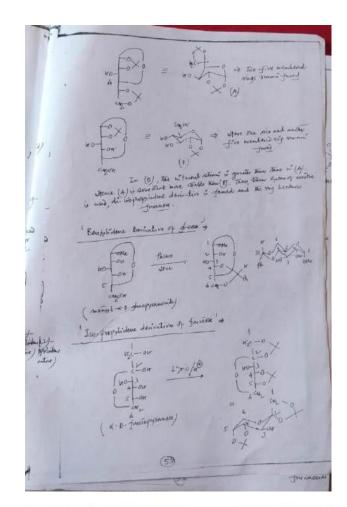
Screenshot (sample) of Resources

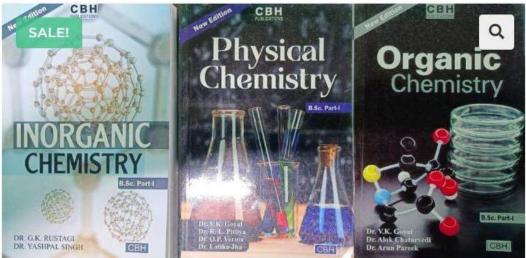
PPT Sample





PDF Sample/ Books







Bengali book for general students



ICT Classes





Class taken by Dr. Sucheta Joy, Assistant Professor, Department of Chemistry



Class taken by Dr. Debasmita Sardar, Assistant Professor, Department of Chemistry



Class taken by Dr. Rabiul Alam, Assistant Professor, Department of Chemistry



Session 2021-22

Teachers use ICT enabled tools for effective teaching-learning process.



	RABINDRA MAHAVIDYAL AY Affiliated to the University of Burdwan Champadanga, Hooghly, West Bengal, Pin712401 Estd-1971	A 🛞
Ref. No		Date

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Rabindra Mahavidyalaya Champadanga • Hooghiy

Dr. Prasanta Bhattacharyya Principal



Session 2021-22

Teachers use ICT enabled tools for effective teaching-learning process.

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Some screenshots of the same are attached here.

Department of Botany (2021-2022)

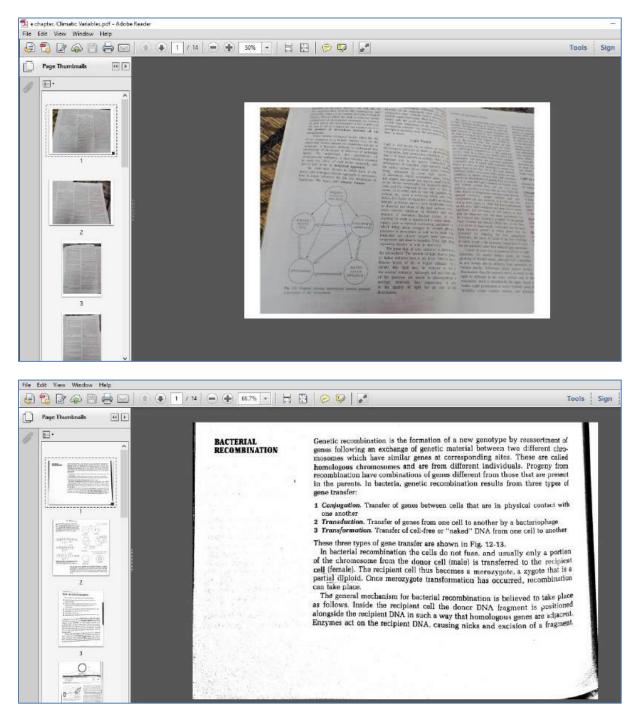
Snapshots/ screenshots of E-resources and techniques used



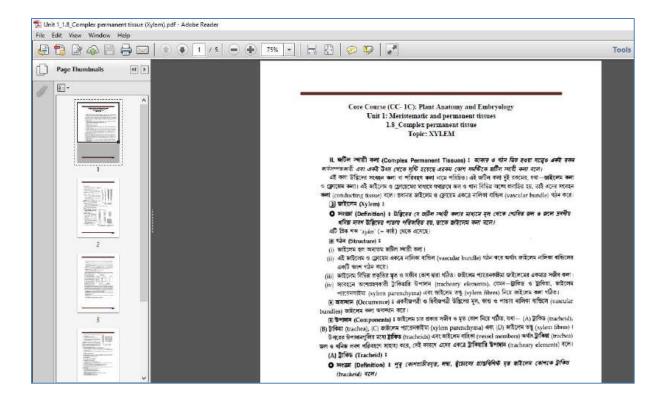
Screenshot (sample) of E- Journal Resource



PDF Sample

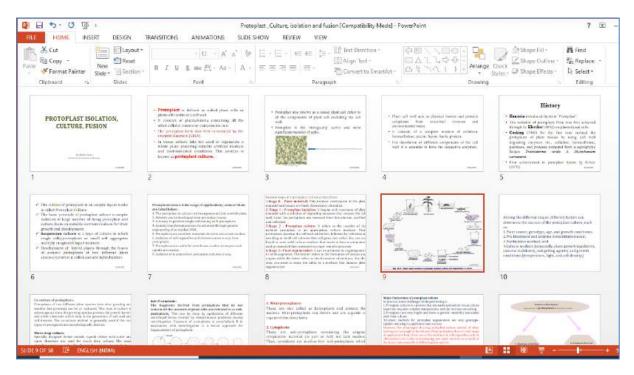


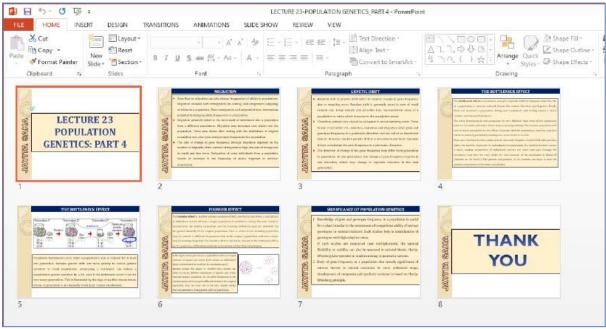






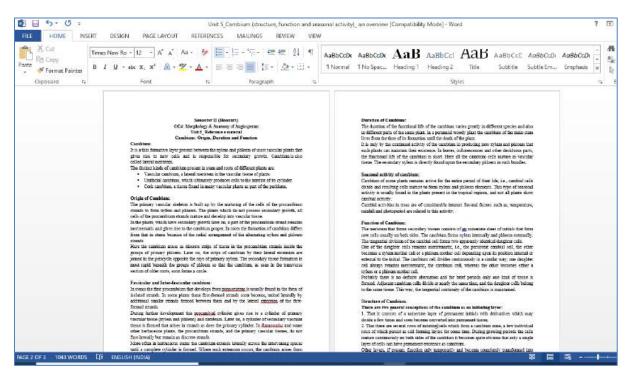
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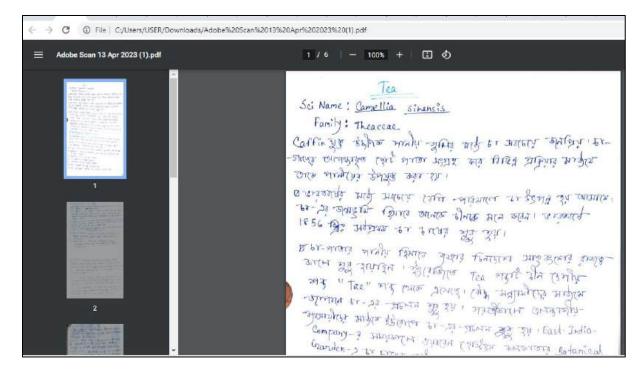
Word Doc. Sample



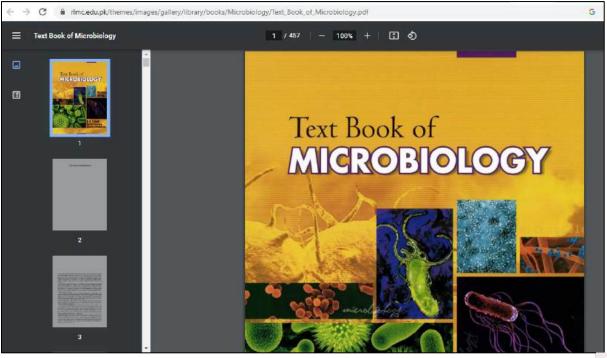
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Scanned hand written notes (Sample in Bengali for general stream)

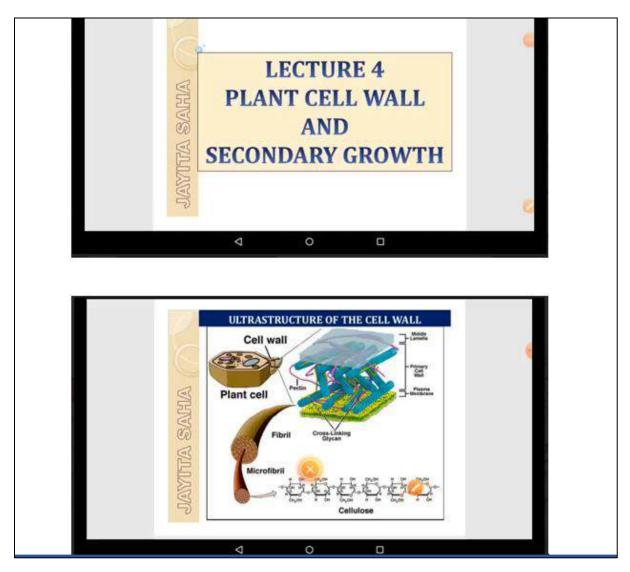


E-Book PDF (Sample)



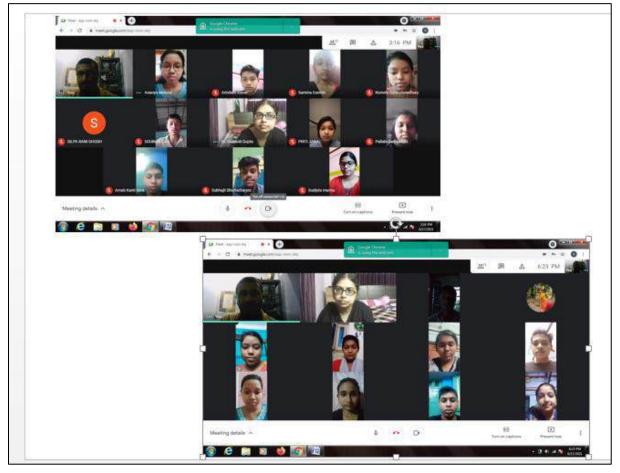


Screenshot of Video (Sample)





Google Meet



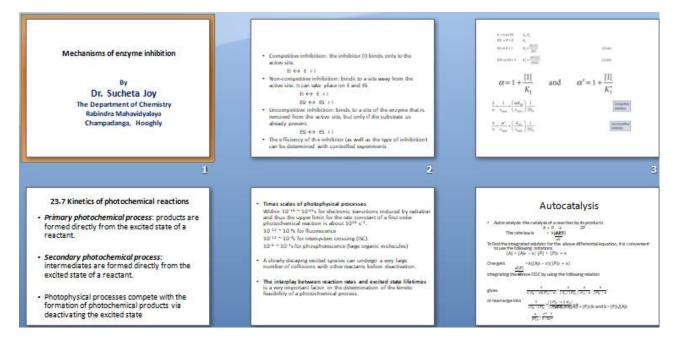


Department of Chemistry (2021-2022)

Snapshots/ screenshots of E-resources and techniques used

Screenshot (sample) of Resources

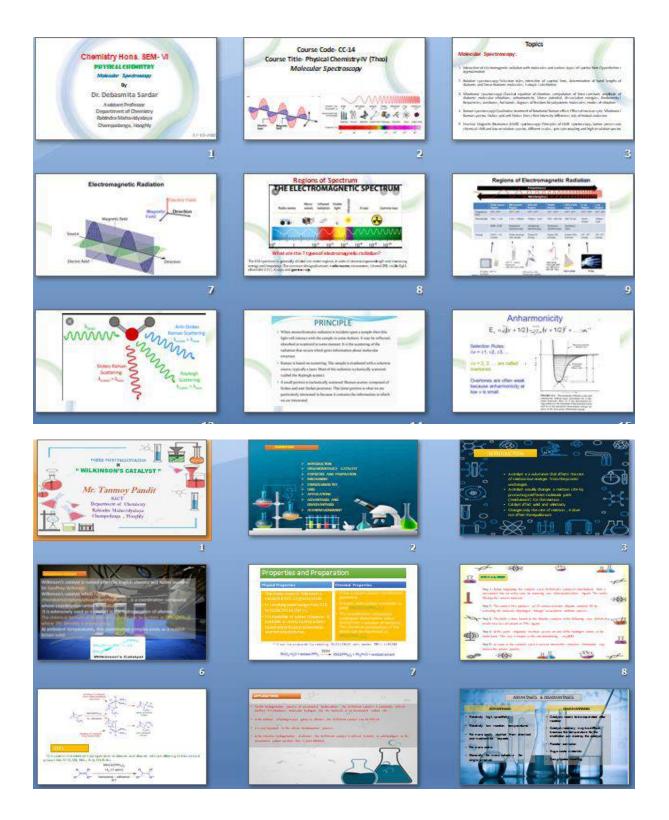
PPT Sample













PDF Sample/ Books

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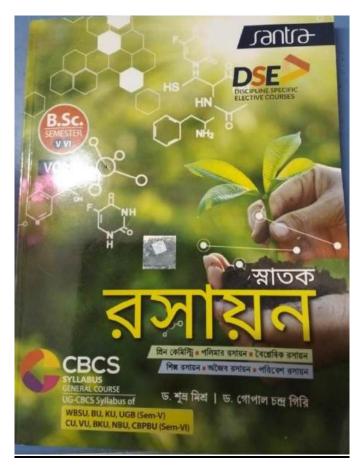
Biocatalysis for Green Chemistry and Chemical Process Development

> ^{Edited by} Junhua (Alex) Tao Romas Kazlauskas

WILEY

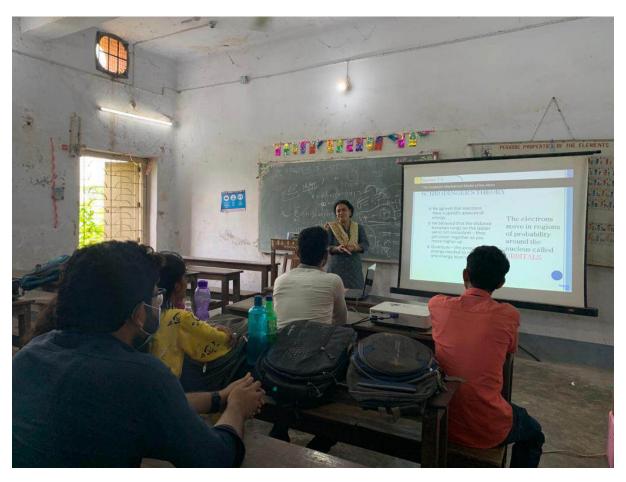


Bengali book for general students





ICT Classes





Class taken by Dr. Sucheta Joy, Assistant Professor, department of Chemistry









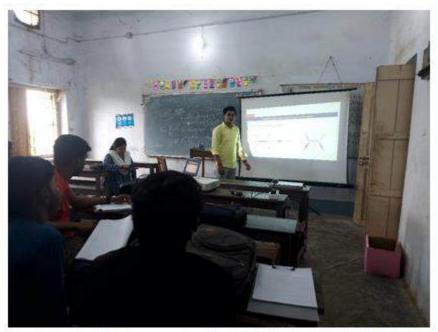
Class taken by Dr. Rabiul Alam, Assistant Professor, department of Chemistry







Class taken by Dr. Debasmita Sardar, Assistant Professor, department of Chemistry



Class taken by Mr. Tanmov Pandit, SACT, department of Chemistry

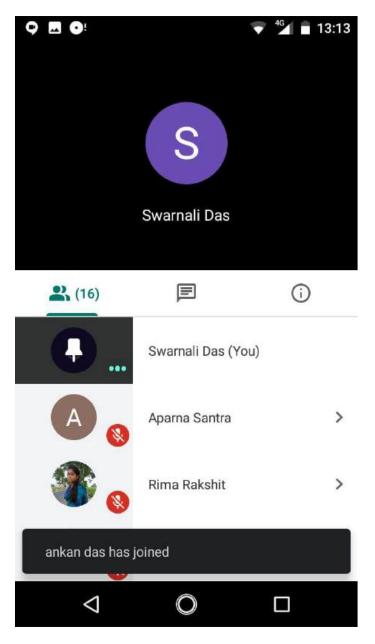




Class taken by Mrs. Subhra Dholey, SACT, department of Chemistry

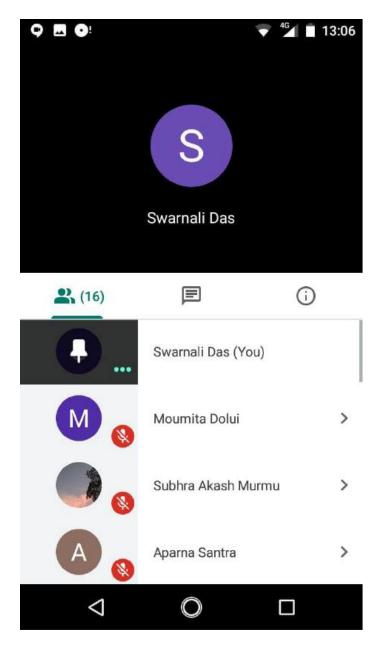


Department of Political Science

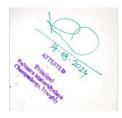


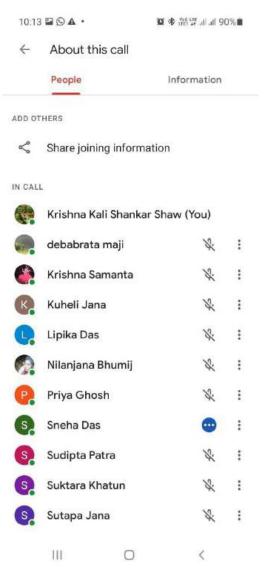
Online class taken by Swarnali Das (SACT) for 4 th sem generic





Online class taken by Swarnali Das SACT for Sem-6 Generic





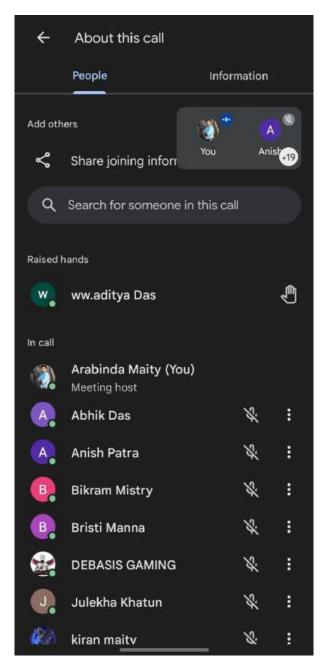
Online Class taken by Mr. Krishna Kali Mondal Asst. Prof in Pol. Sc for 2 nd Sem Honours



DEPARTMENT OF PHYSICAL EDUCATION (SESSION 2021-2022)

ONLINE CLASS - SEMESTER-1

CLASS TAKEN BY MR. ARABINDA MAITY , SACT, PHYSICAL EDUCATION



Rests of the departments also have followed the similar techniques to conduct classes and evaluate student performance. (Screenshots are not attached.)



Session 2020-21

Teachers use ICT enabled tools for effective teaching-learning process.



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Session 2020-21

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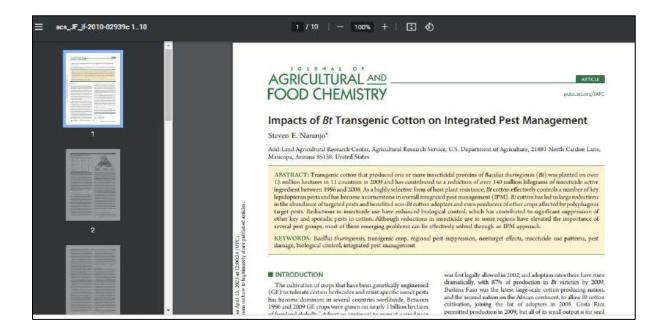
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Department of Botany (2020-2021)

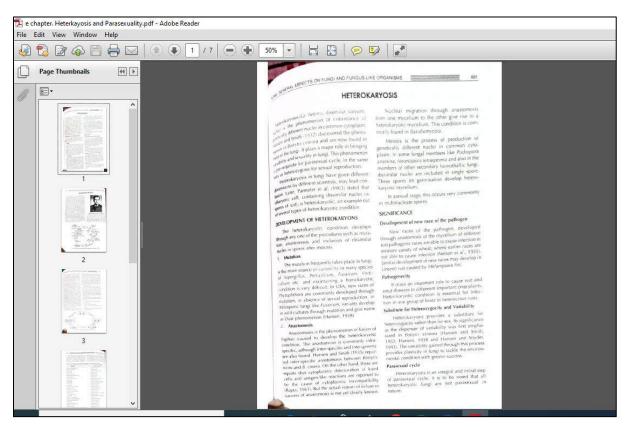
Snapshots/ screenshots of E-resources and techniques used

Screenshot (sample) of E- Journal Resource



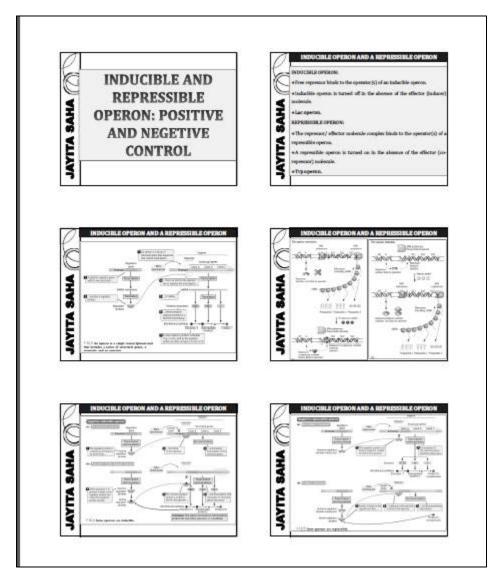


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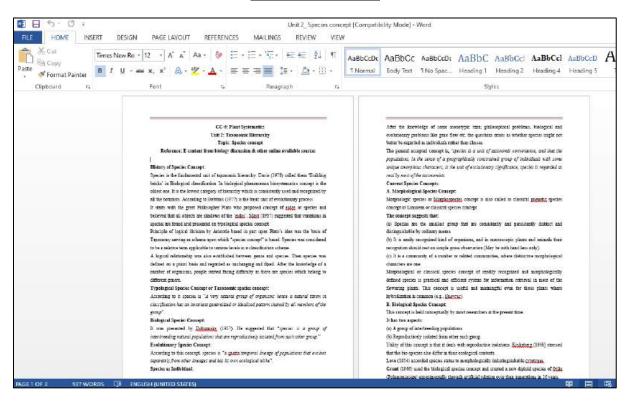


PPT. Sample

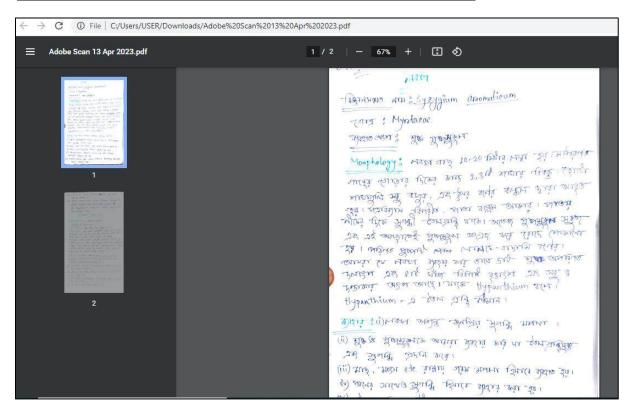




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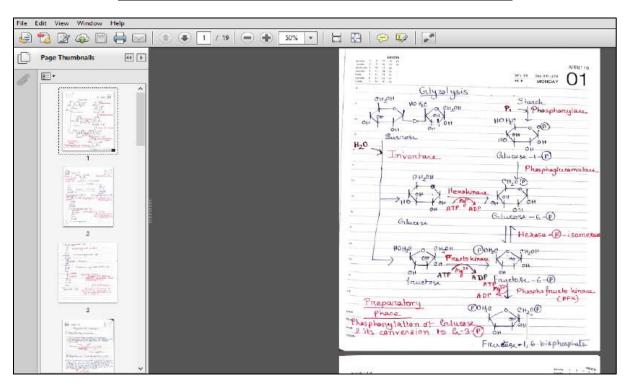






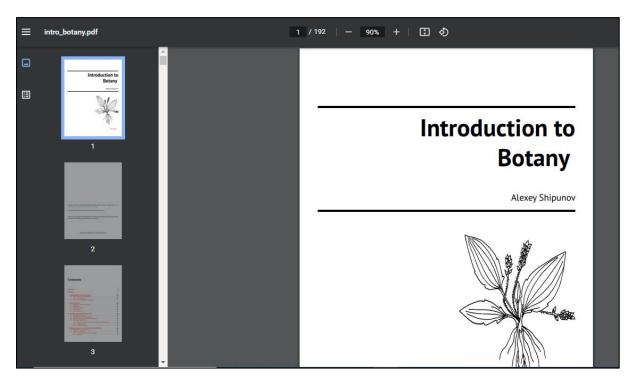
Scanned hand written notes (Sample in Bengali for general stream)





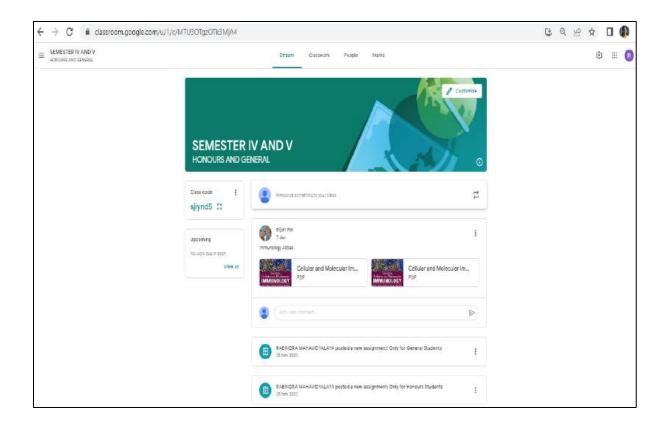
Scanned hand written notes (Sample for Honours stream)

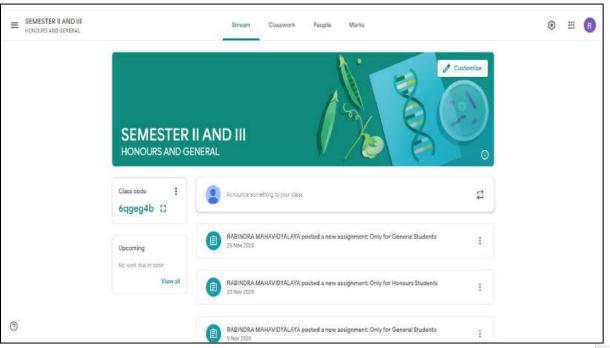
E-Book PDF (Sample)



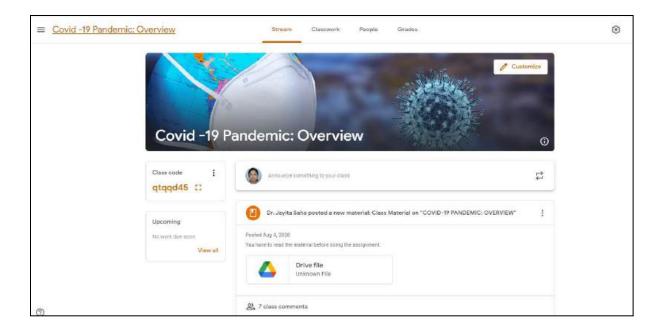


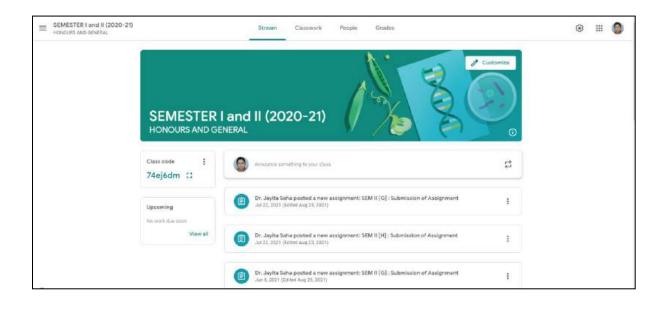
Google Classroom





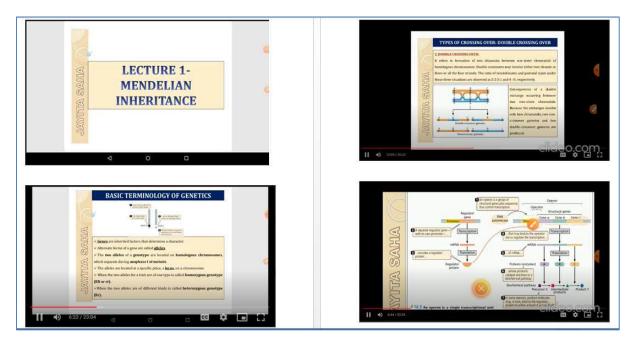




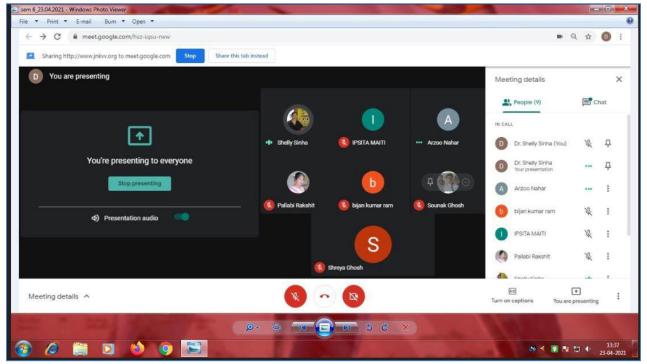




Screenshot of Video (Sample)



Google Meet



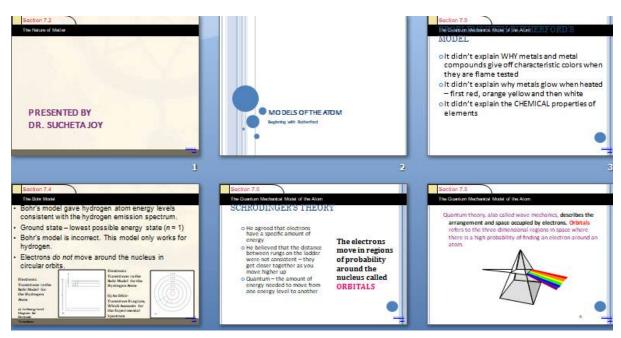


Department of Chemistry (2020-2021)

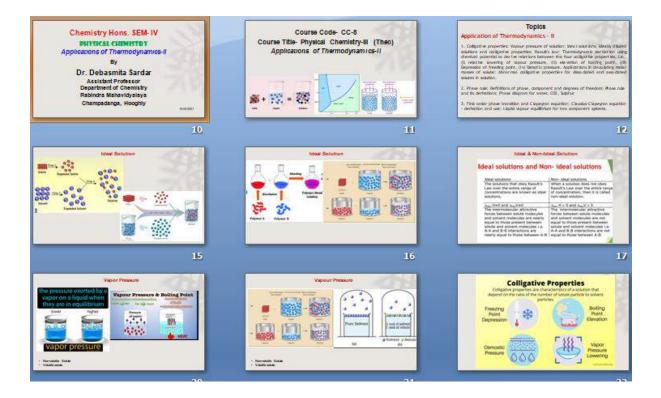
Snapshots/ screenshots of E-resources and techniques used

Screenshot (sample) of Resources

PPT Sample









PDF Sample

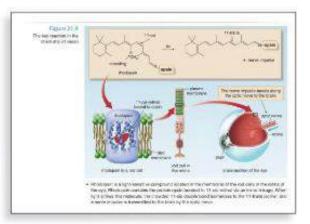
Illustrations

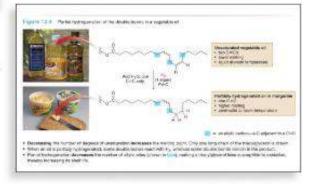
Organic Chemistry is supported by a well-developed illustration program. Besides traditional skeletal (line) structures and condensed formulas, there are numerous ball-and-stick molecular models and electrostatic potential maps to help students grasp the three-dimensional structure of molecules (including stereochemistry) and to better understand the distribution of electronic charge.

"I believe that dissecting the text gives students time to understand and to digest, step-by-step, each concept presented, rather than memorize them. This helps students in achieving better results faster... The quality of the illustrations is very good, without unnecessary explanations that could make them confusing. The language is easy to follow, the concept easy to understand." —Camelia Gogonea, Cleveland State University

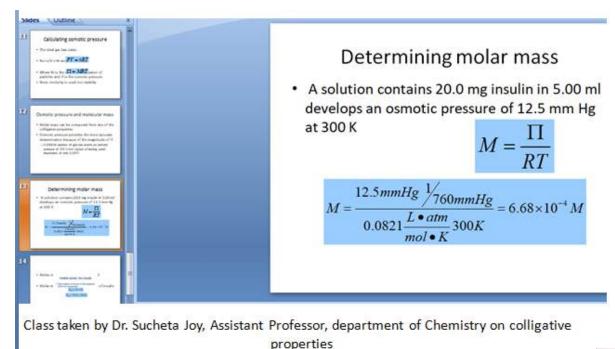
Micro-to-Macro Illustrations

Unique to Organic Chemistry are micro-to-macro illustrations, where line art and photos combine with chemical structures to reveal the underlying molecular structures giving rise to macroscopic properties of common phenomena. Examples include starch and cellulose (Chapter 5), adrenaline (Chapter 7), partial hydrogenation of vegetable oil (Chapter 12), and dopamine (Chapter 25).

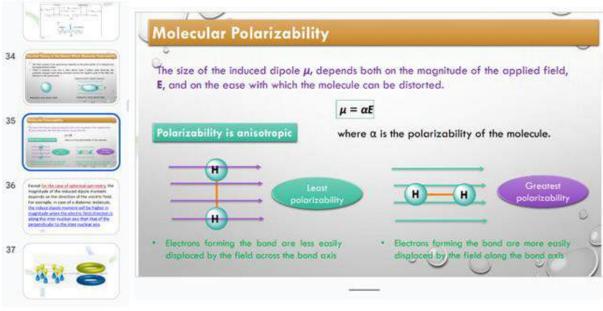




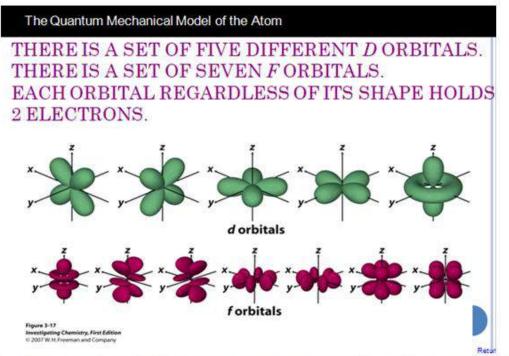
Class Materials



11. 30 11. 30

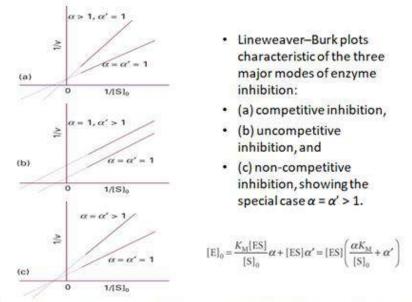


Class taken by Dr. Debasmita Sardar, Assistant Professor, department of Chemistry on Raman Spectroscopy



Class taken by Dr. Dr. Sucheta Joy, Assistant Professor, department of Chemistry on atomic structure





Class taken by Dr. Sucheta Joy, Assistant Professor, department of Chemistry on photochemistry

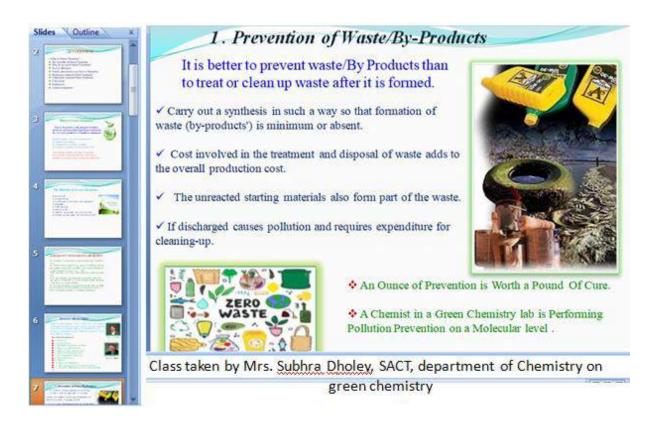




Table 23.1	Examples of photochemical processes
------------	-------------------------------------

Process	General form	Example
Ionization	$A^* \rightarrow A^+ + e^-$	$NO^* \xrightarrow{134 \text{ nm}} NO^+ + e^-$
Electron transfer	$\mathrm{A}^{\star} + \mathrm{B} \rightarrow \mathrm{A}^{+} + \mathrm{B}^{-} \text{ or } \mathrm{A}^{-} + \mathrm{B}^{+}$	$[\operatorname{Ru}(\operatorname{bpy})_{3}^{2+}]^{*} + \operatorname{Fe}^{3+} \xrightarrow{452 \text{ nm}} \operatorname{Ru}(\operatorname{bpy})_{3}^{3+} + \operatorname{Fe}^{2}$
Dissociation	$A^* \rightarrow B + C$	$O_3^* \xrightarrow{1180 \text{ nm}} O_2 + O$
	$\mathbf{A^*} + \mathbf{B}\text{-}\mathbf{C} \rightarrow \mathbf{A} + \mathbf{B} + \mathbf{C}$	$Hg^* + CH_4 \xrightarrow{254 \text{ nm}} Hg + CH_3 + H$
Addition	$2 \: A^{\star} \to B$	2()*230 nm
	$A^* + B \rightarrow AB$	
Abstraction	$A^* + B \longrightarrow C \longrightarrow A \longrightarrow B + C$	$Hg^* + H_2 \xrightarrow{254. nm} HgH + H$
Isomerization or rearrangement	$A^* \rightarrow A'$	380 nm^{\dagger}

Table 23-1 Atkins Physical Chemistry, Eighth Edition © 2006 Peter Atkins and Julio de Paula

Class taken by Dr. Sucheta Joy, Assistant Professor, department of Chemistry on photochemical process

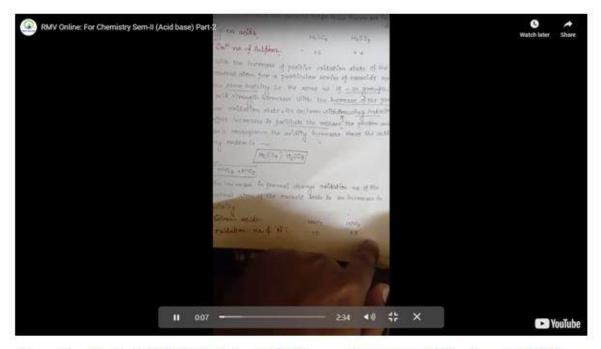


Scanned hand written notes

For onharmonde scillator and the copy dissociation energy (1) & mut dissociation energy (1) intermos of the site Guantised recorational energy Ev = (1+++++) WE - (1+++) = 25 (1 (12 - (1)) For max value of quantisation Greecent $\frac{d\xi_{v}}{dv} = 0 - (2)$ Prom (1) $\frac{d\xi_{v}}{dv} = \overline{w}e - 2(v + \frac{1}{2}) \cdot 1 \cdot \overline{w}e^{\chi}e$ $= \overline{w}e - 2v \cdot \overline{w}e^{\chi}e - \overline{w}e^{\chi}e$ $= \overline{w}e(1 - 2u \cdot \Re e - \chi e) \quad [\overline{w}e \neq 0]$ Promu Prom (1) x (2) 1- 218xe-ke = 0 1-xe=218xe : Vmax = 1-xe = 1/2 = 1/2 $(v_{\text{max}})^{2} = (v_{\text{max}} + \frac{1}{2})\overline{u}e^{-} (v_{\text{max}} + \frac{1}{2})^{2}\overline{w}e^{-} Ne^{-(\frac{1}{2}ne^{-\frac{1}{2}} + \frac{1}{2})}\overline{w}e^{-(\frac{1}{2}ne^{-\frac{1}{2}} + \frac{1}{2})}$ (1- ++++) We Eumax = We = Dea Do = DA - E 2000 pt = We - [- 1 We - + Werke] Ance Do = We - + We (1-1) Ne)

Class taken by Dr. Debasmita Sardar, Assistant Professor, department of Chemistry on IR Spectroscopy





Class taken by Dr. Rabiul Alam, Assistant Professor, department of Chemistry on acid-base

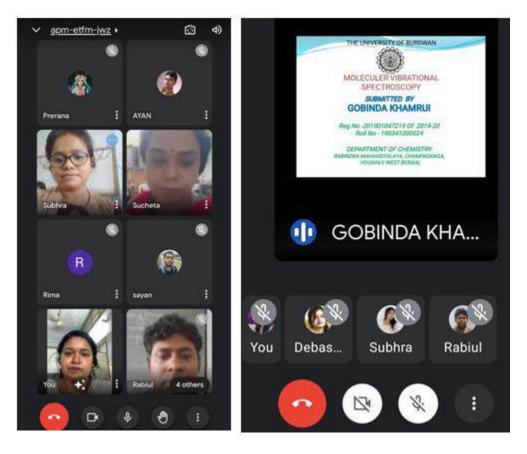


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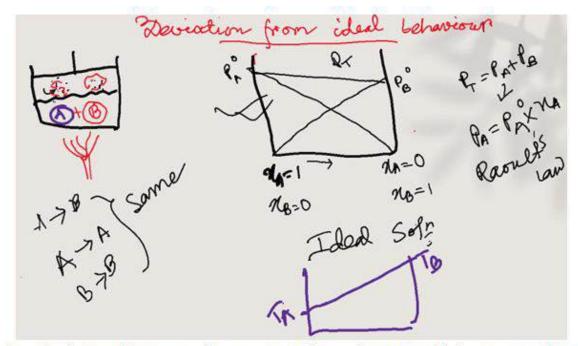
Class taken by Mrs. Subhra dholey, SACT, department of Chemistry on stretching frequency



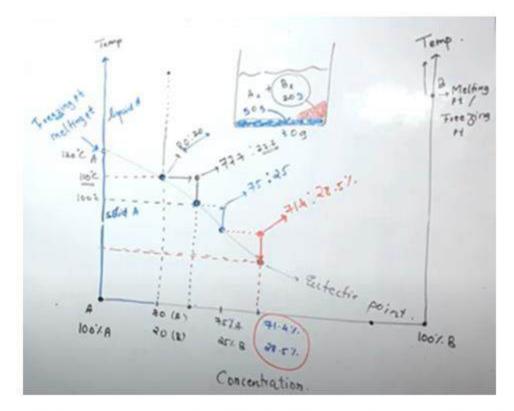
Google Classroom







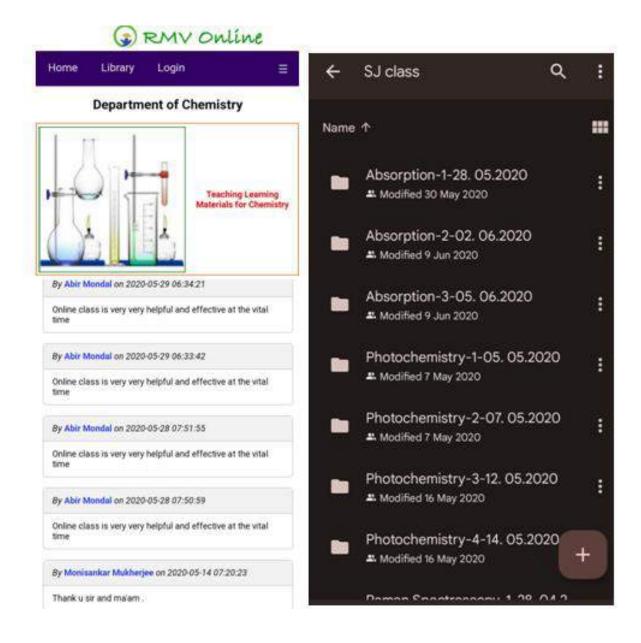
Class taken by Dr. Debasmita Sardar, Assistant Professor, department of Chemistry on solutions



Class taken by Dr. Debasmita Sardar, Assistant Professor, department of Chemistry on phase equilibrium



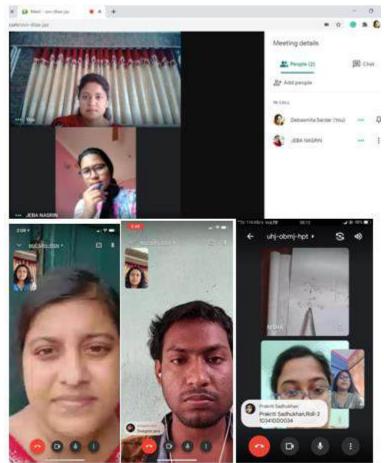
Students Review for online classes & uploaded class notes





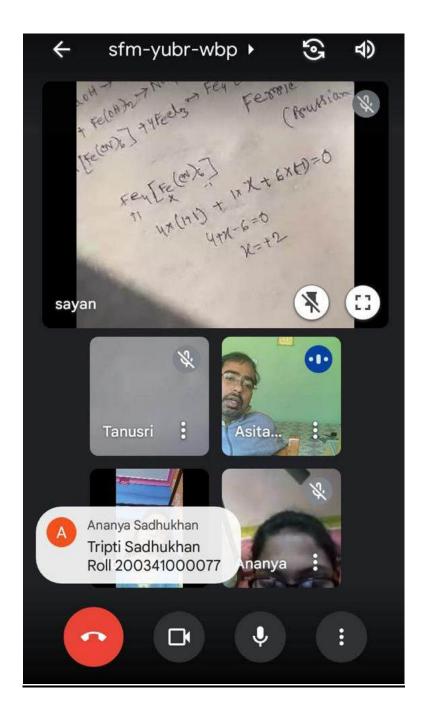
Exam Viva





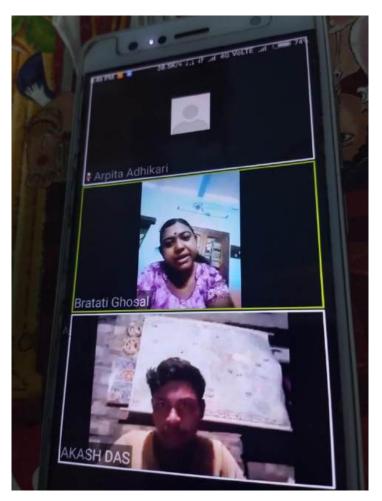


Practical Exam Viva (in presence of External)





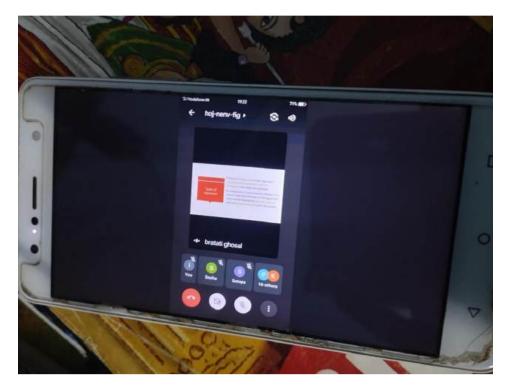
Department of Political Science



Online class taken by Bratati Ghosal, Assistant professor in Political Science for 6 th sem honours students (2020-21 session)

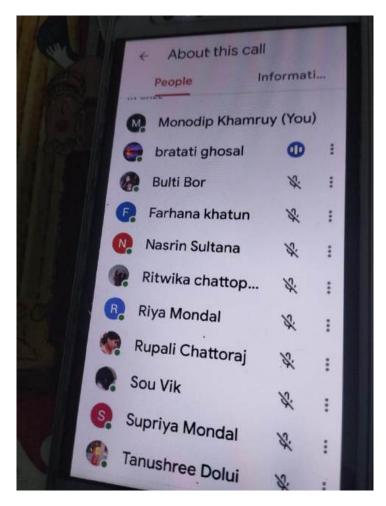


Online class for Semester-1 Hons students, taken by Bratati Ghosal, Assistant Prof.in Political Sc. (2020-21)





Online class for Political Science Sem-5 Hons students taken by Bratati Ghosal, Asst.professor for 2020-21





DEPARTMENT OF PHYSICAL EDUCATION (SESSION 2020-2021)

ONLINE CLASS - SEMESTER-1

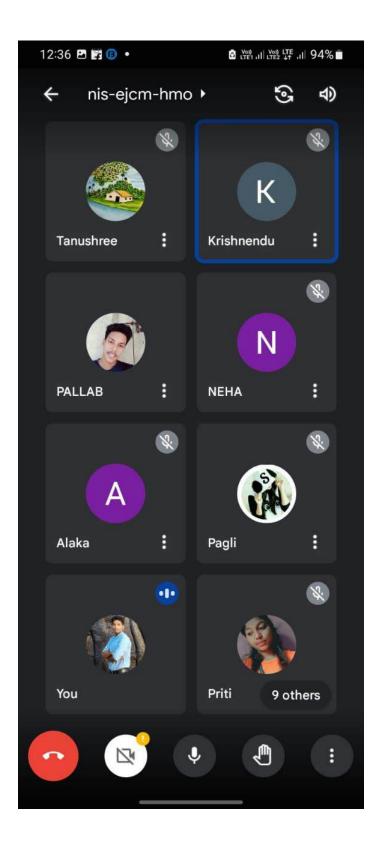
CLASS TAKEN BY MR. ARABINDA MAITY , SACT, PHYSICAL EDUCATION

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4 About this call People Information Q Search for someone К Krishner 12 You In call Arabinda Maity (You) Meeting host S. : Alaka Hemram F, Farjana Khatun Ľ. : S. : К. Krishnendu Mudi S. N : NEHA GHARA S. : Pagli P S. PALLAB MANDAL : S. : Priti Poddar : S. **Rubina Parvin** : Sima Adak S. : S. Smritikana Das S. : Subhra Ghosh







Topic: Renaissance in Italy. Semester- III Honours Paper- CC- VI Lecture delivered by Prof. *Sujata Bandyopadhyay*, Department of History, Rabindra Mahavidyalaya, Champadanga in 2020. https://www.youtube.com/watch?v=EJZaz7YRsiw

Rests of the departments also have followed the similar techniques to conduct classes and evaluate student performance. (Screenshots are not attached.)

