



॥ तपसा लभ्यते सर्वम ॥

Navoday Shaikshanik Sanstha Dhule's

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Email ID: upcdahivel@yahoo.co.in

Uttamrao Patil Arts and Science College

Dahivel, Tal-Sakri, Dist-Dhule.424304

Phone no. (Office): 02561230643

Affiliated to Kavyitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.

Chairman Shri. Arvind M. Patil

Prin. Dr. S. C. Ahire (MA, M Phil Ph.d)

5.1.2 Capacity building and skills enhancement activities taken by the institution include the following

1.Soft skills

2.Language and communication skills

3.Life skills (Yoga, physical fitness, health and hygiene)

4.ICT/computing skills

Yoga Day -2020-21

**Brouchur of Yoga
Day, Date-21/06/2020**



3. Life Skills (Yoga Day):

Name of the Event/Program/Activity	International Yoga Day
Date of the Event	21st June 2020 7:45 am
Number of Teachers Participated	22
Number of Students Participated	00
Name of Resource Persons	Prof. Dr. S. S. Bhoi
Report of the Event :- Dept. Of Sports and NSS of Uttamrao Patil College, Dahiwel organised an online Yoga Day on 21 th June 2020 on occasion of international Yoga Day. Prof, Dr. S. S. Bhoi gives a talk on importance Ashanas and Pranayamas in life takes practice of Ashnas and Pranaymas. In this program about 22 teachers are actively participated.	

Dr. S. S. Bhoi online giving Demonstration of Pranayam Anulom Velom and Bhashrika to staff.



Dr. S. S. Bhoi Showing Ashanas like Rukshashan



2. Life Skills (Health and Hygiene): Health and Hygiene 2020-2021

Name of the Event/Program/Activity	NSS volunteer Jayesh Nandre giving information to villagers about stay safe from Corona, Using Mask and Social distance.
Date of the Event	22nd Oct. 2021 10.00 am
Number of Teachers Participated	13
Number of Students Participated	40
Name of Resource Persons	Dr. J. U. Patil NSS Cordinator
Report of the Event :- Dept. NSS of Uttamrao Patil College, Dept. of NSS Uttamrao Patil Arts and Science NSS volunteers giving information to villagers about stay safe from Corona, Using Mask and Social distance. In this program about 13 students were actively participated.	

NSS volunteer Jayesh Nandre giving information to villagers about stay safe from Corona, Using Mask and Social distance.



**ग्रामस्थाना कोराना पासुन कसे
सुरक्षित राहावे, मास्क वापर , सोशल
डिस्टसिंग राखणे या बाबत
माहिती देतांना रासेयो स्वयंसेवक-
जयेश नांद्रे- गाव-छडवेल पखरुण
(TYBA)**

9:57 PM

NSS Volunteer Chhagan Bagul while helping administration in tribal village drug spraying and disinfection work.



**आदिवासी गावात प्रशासन औषद
फवारनि, निर्जन्तुकिकरण कामात
मदत करताना रासेयो स्वयंसेवक-
छगन बागुल (SYBA)**

9:57 PM

NSS Volunteer while helping villagers in sanitation of hands during Corona



NSS Volunteer while helping villagers in sanitation of hands during Corona



NSS Volunteer while helping villagers in sanitation of hands during Corona



NSS Volunteer while helping villagers in sanitation of hands during Corona



NSS Volunteer while helping villagers in sanitation of hands during Corona.

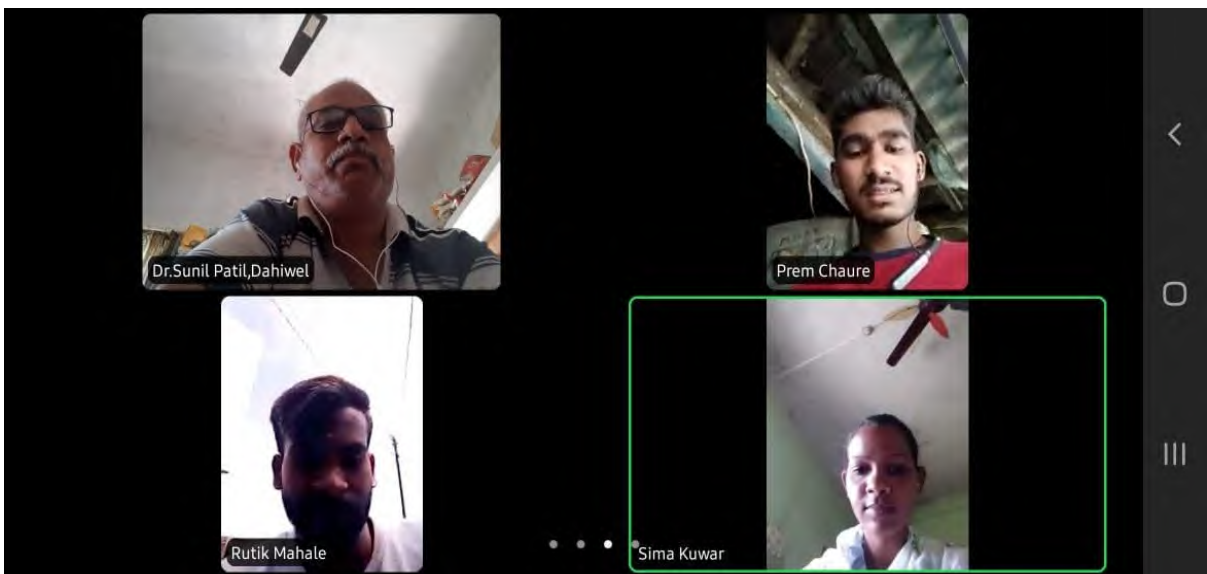


4.ICT / computing Skills -2020-221:

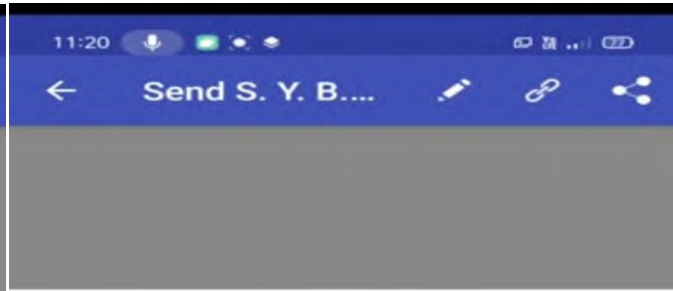
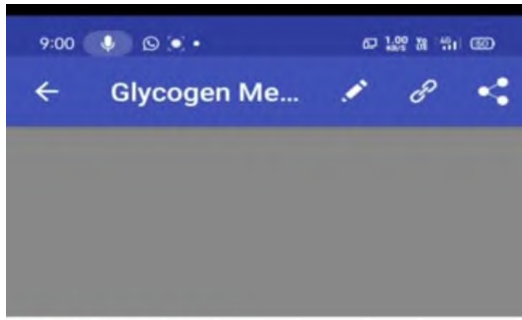
Name of the Event/Program/Activity	ICT / computing Skills
Date of the Event	Online lecture during 2021 8.00 am, 9.00 am and 10.00 am
Number of Teachers Participated	03
Number of Students Participated	31
Name of Resource Persons	Dr. S. A. Patil, Dr. S. S. Bhoi and Dr. M. S. Borse
Report of the Event :- Dept. of Chemistry, Zoology and Sociology Uttamrao Patil College, Dahiwel online organised a computing Skills during 2021. Prof. S. A. Patil, Dr. S. S. Bhoi and Dr. M. S. Borse give a talk of their subject topics by using ICT/computing Skill. In this program about 03 teachers and 31 students were actively participated.	

ICT Year-2020-2021

Dr. S. A. Patil delivering online lecture



Dr. S. S. Bhoi talk online on glycogen Metabolism



Glycogen metabolism

Glycogen is the storage form of glucose in animals, as is starch in plants. It is stored mostly in the liver (6-8%) and muscles (1-2%). Due to more muscle mass, the quantity of glycogen in muscle (250 g) is about three times higher than in the liver. Glycogen is stored as granules in the cytosol, where most of the enzymes for glycogen synthesis and breakdown are present.

Function of glycogen: The liver glycogen is to maintain the blood glucose level, particularly between meals. Liver glycogen stores increase in well-fed animals and are depleted during fasting. Muscle glycogen serves as fuel reserve for the production of ATP during muscle contraction.

The overall reaction may be represented as

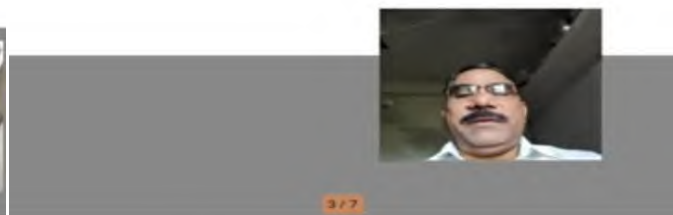


Significance of HMP shunt: HMP shunt is unique in generating two important products: NADPH needed for the biosynthetic reaction and other functions.

Importance of Pentose: In the HMP shunt, ribose 5-phosphate is converted into pentose, which is useful for the synthesis of nucleic acids (RNA and DNA). Other nucleotides such as ATP, NAD⁺, FAD, and CoA.

Importance of NADPH

- i. Biosynthesis of fatty acids and steroids.
- ii. NADPH is used in the synthesis of certain amino acids.
- iii. There is continuous production of H₂O in living cells.
- iv. Phagocytosis is the engulfing of foreign particles, i.e., microorganisms.





Instructions

Student work

100 points

Zoology Paper I Sem-II

Attachments



Unit-Integumentary System

Class comments

Hemant Suryawanshi Apr 13, 2021



Rohini Kshirsagar Apr 20, 2021

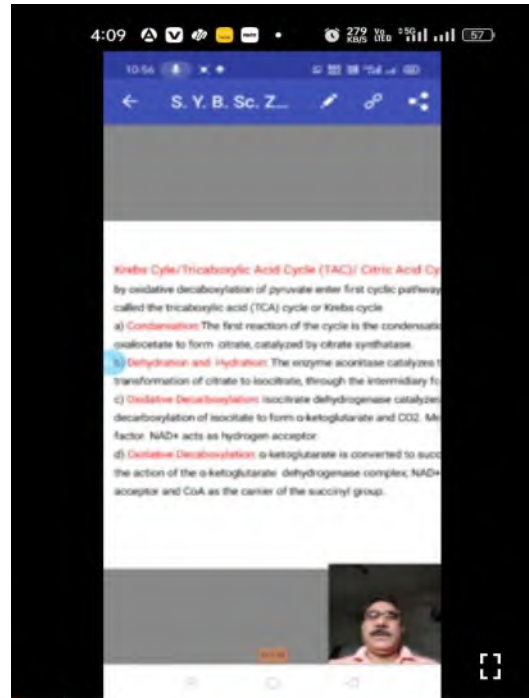


Aakanksha patil Apr 27, 2021
Patil Aakanksha Sanjay



milind patil Apr 28, 2021
Pranjal Arun Patil

Add class comment



Krebs cycle

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Dr. S. S. Bhoi
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10:56 S. Y. B. Sc. Z...

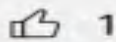
Krebs Cycle/Tricarboxylic Acid Cycle (TAC)/ Citric Acid Cy
by oxidative decarboxylation of pyruvate enter first cyclic pathway called the tricarboxylic acid (TCA) cycle or Krebs cycle

- a) **Condensation:** The first reaction of the cycle is the condensation of oxaloacetate to form citrate, catalyzed by citrate synthase.
- b) **Dehydration and Hydration:** The enzyme aconitase catalyzes the transformation of citrate to isocitrate, through the intermediary form of cis-aconitate.
- c) **Oxidative Decarboxylation:** Isocitrate dehydrogenase catalyzes the decarboxylation of isocitrate to form α -ketoglutarate and CO_2 . The factor NAD^+ acts as hydrogen acceptor.
- d) **Oxidative Decarboxylation:** α -ketoglutarate is converted to succinyl-CoA by the action of the α -ketoglutarate dehydrogenase complex, NAD^+ as acceptor and CoA as the carrier of the succinyl group.



Krebs cycle

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1



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Kingdom Protista

Class comments

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👍
- Nikita Khairnar** Nov 26, 2020
👍
- Lina Chaudhari** Dec 6, 2020
Siddhi chaudhari 👍
- Hemant Suryawanshi** Dec 10, 2020
👍
- Kiran Deore** Dec 15, 2020
Shubhangi deore 👍
- Aakanksha patil** Dec 21, 2020
👍
- Nikita Khairnar** Jan 2, 2021

Instructions

Student work



Alimentary Canal continues from F...

Class comments

- Hemant Suryawanshi** May 3, 2021
Hemant Shankar Suryawanshi
- Kiran Deore** May 3, 2021
Shubhangi Kiran deore
- SHUBHANGI BACHHAV** May 4, 2021
Shubhangi Bhausahab Bachhav
- Ravi Patil** May 4, 2021
Patil Ritu Ravindra
- Darshana Patil** May 5, 2021
Nerkar Darshana Sudam
- Rohini Kshirsagar** May 6, 2021
Kshirsagar Rohini Raman
- milind patil** May 9, 2021
Pranjal Arun Patil

Dr. S. S. Bhoi Dept. Of Zoology delivering lectures

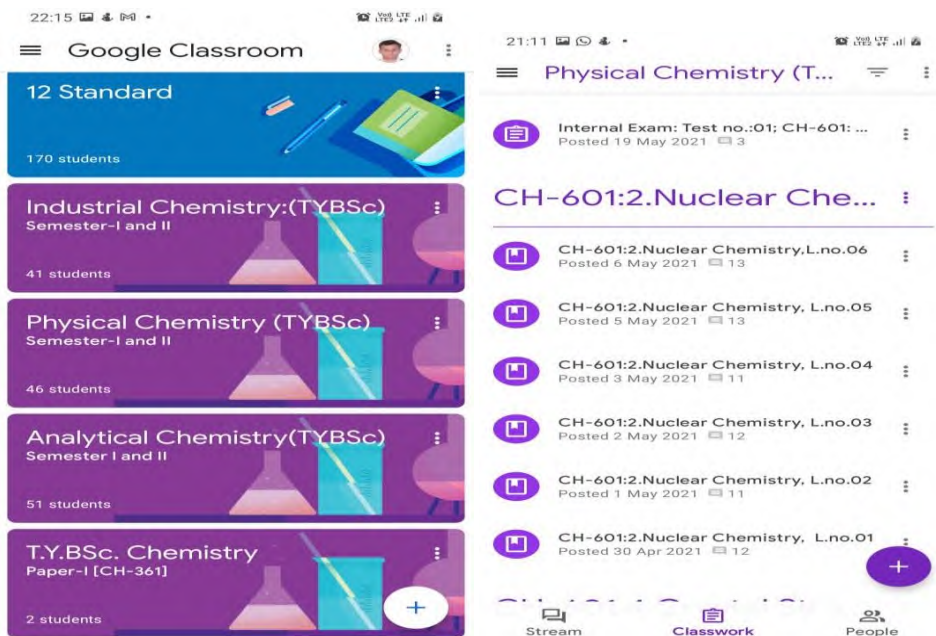
ICT Method for Teaching

➤ Google Classroom:

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- ✓ Classroom link:- 2. Industrial Chemistry: Class Code: [7hgk4nb](https://classroom.google.com/c/MjM5NTg1MDAyNjY3?cjc=7hgk4nb).
<https://classroom.google.com/c/MjM5NTg1MDAyNjY3?cjc=7hgk4nb>
- ✓ Classroom link:- 3. Analytical Chemistry: Class Code: [gxyzw2b](https://classroom.google.com/c/MTE1OTE0NjcwNTAy?cjc=gxyzw2b).
- ✓ YouTube Channel: Dr. Mahendra Borse :
https://studio.youtube.com/channel/UCY-GtY5o0j3Gu_dP_cnbtZg
- ✓ <https://classroom.google.com/c/MTE1OTE0NjcwNTAy?cjc=gxyzw2b>

➤ YouTube Channel: Dr. Mahendra Borse :

https://studio.youtube.com/channel/UCY-GtY5o0j3Gu_dP_cnbtZg



21:11

Physical Chemistry (T...

Teachers

Chemistry By Mahendra Borse

Students

Aarti Bhoi

Ajay Bahiram

Anjali Kokani

Bhushan Gharate

Chanakshi Bachhav

Stream Classwork People

21:11

Analytical Chemistry(TYBSc) Semester I and II

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16 May 2021

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New assignment: Internal Exam. May-2021...
14 May 2021 (Edited 14 May 2021)

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New material: CH-605:4.Ion Exchange Chromatography, L.no....
28 Apr 2021

10 class comments

New material: CH-605:4.Ion Exchange Chromatography, L.no.03
28 Apr 2021

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21:10 Industrial Chemistry:(...)

Teachers

Chemistry By Mahendra Borse

Students

- Unknown user
- Chetan Patil
- Devidas malche
- Diksha Patil
- Durgesh Patil

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22:26 Chemistry By Mahen...

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Second order reaction:-

Second order reaction:- The reaction in which the rate of reaction depends on the **second power** of concentration of a reactants in rate law then the reaction is said to be **second order** reaction.

In this reaction there are two possibilities such as

- Both reactants can have the **same initial** concentration
- The reactants having **different initial** concentration.

Derivation of integrated rate law for second order reaction:-

a) Equal initial concentration:- consider a reaction

$$A + B \longrightarrow \text{Products.}$$

Let 'a' moles lit⁻¹ Be the initial concentration of both reactants A and B. In the time 't' let x part of A react with x part of B.

ii) $\text{CH}_3\text{COOCH}_3 + \text{H}_2\text{O} \rightleftharpoons \text{CH}_3\text{COOH} + \text{CH}_3\text{OH}$
 Molecularity = 2, Order = 1

ii) $\text{H}_2\text{O}_2 + 2\text{HI} \rightarrow 2\text{H}_2\text{O} + \text{I}_2$
 Molecularity = 3, Order = 2


Thus the reactions whose order is **not in accordance** with by chemical equation are called as **pseudomolecular reaction**

Reasons for pseudo behaviour:

1) One of the reactant is in excess so that the change of concentration is negligible.

i) Consider the reaction,
 $\text{CH}_3\text{COOCH}_3 + \text{H}_2\text{O} \rightarrow \text{CH}_3\text{COOH} + \text{CH}_3\text{OH}$
 In this reaction concentration of water is very high while concentration of other reactants is very low. So, the change of concentration of water does not affect the rate of reaction.

Crystal



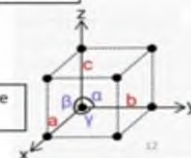
Unit Cell (Single crystal)

Unit Cell :- A unit cell is the smallest repeating structural unit of a crystalline solid. It is fundamental unit of crystalline substances.

Lattice parameters:- The edge length, the distance between two faces i.e. a, b, c and angle between the edge are α, β, γ are called as lattice parameters.

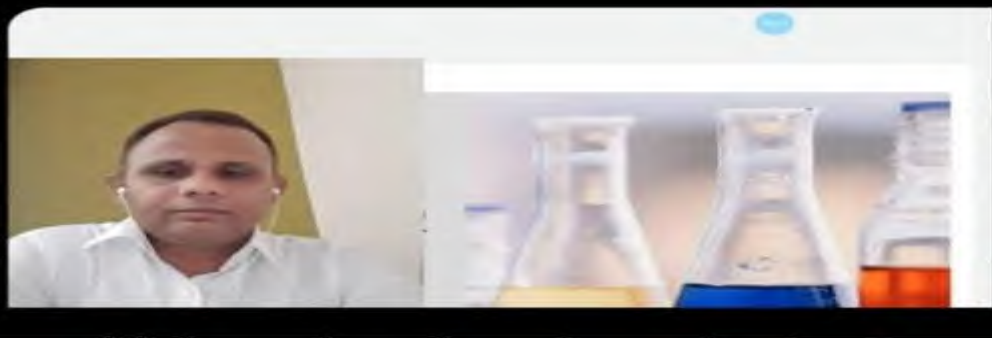
Space lattice:- The three dimensional regular space occupied by the particles called space lattice.

Lattice points:- A position occupied by the particles in space lattice are called as lattice points as shown in figure.



22:29

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Basic concept of Chemistry and Scope after B.Sc. Chemistry. 2020

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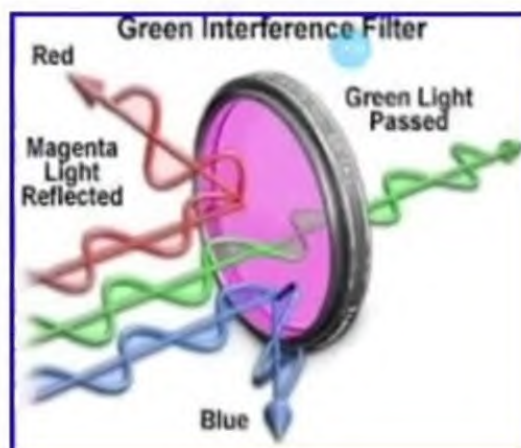


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filter is a device that allows a certain wavelength to pass and blocks other wavelengths. It can be selected to pass a desired wavelength. There are two types of filters.

Color Filter :- These filters limit light by absorbing certain portions of the spectrum. A color filter is a solid sheet of glass that has been colored by a pigment dispersed in the glass. They are used in the visible spectrum (400-780 nm).



22:42

Voice LTE LTE2



Lecture 08, CH-505

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Dr.R.B.Ahirrao

Link for F.Y.B.Sc. Test-I -2021-22

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2. <https://forms.gle/otuaJue7G1Mbj5Ky6>

3. <https://docs.google.com/forms/d/1-kBeOMfN1AiuE4qMcK9ydwzNFaamwu5hNfqMiQ3NN04/edit>
4. [https://docs.google.com/spreadsheets/d/1PrwvaxhnECm2Yl1X2-LxvNzW JgO70pKkolgpXauWpl/edit?usp=drive link](https://docs.google.com/spreadsheets/d/1PrwvaxhnECm2Yl1X2-LxvNzW JgO70pKkolgpXauWpl/edit?usp=drive_link)

You Tube link:

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