



Nav -Sahyadri Charitable Trust's

COLLEGE OF EDUCATION

(Approved by NCTE, Govt. of Maharashtra & Affiliated to Savitribai Phule Pune University)

At. Po. Chakan, Tal. Khed, Dist. Pune - 410 501

NAAC Accredited Grade 'B'

Email:- nsct2006pune@gmail.com.

Tel.No. 02135- 278919/278929 Mob: 9850055155

Ref. No. BEdMED/2022-23/87

Date:- 24/03/2023

Certificate

Clarification of DVV 2.3.3 :- Students are encouraged to use ICT support (mobile-based learning, online material, podcast, virtual laboratories, learning apps etc.) for their learning including on field practice..

Relevant documents activities with seal and signature of the principal are attached herewith

- 1) Programme wise list of students using ICT support
- 2) Students List with ICT Practical's Topics & Sample PPTs
- 3) List of Students Using Mobile base learning apps & Sample
- 4) Students ICT Lesson plan


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2.3.3 Programme wise list of students using ICT support

Date:-

Sr. No.	Name of The Student	List of ICT Tools used	Link
1	HARGUDE MONIKA VIJAY	1) Internet / web based learning,	1) unipune.ac.in
2	AGA AASHANA ABDUL RAZAK	2) Zoom,	2) https://shodhganga.inflibnet.ac.in/simple-search?query=marathi&go=
3	AGA AZMINA MUSTAFA	3) Google meet,	3) https://books.balbharti.in/ebook.aspx
4	AGHAV ARCHANA PRAVIN	4) Internet,	4) https://ssa.jk.gov.in/Study%20Material%20hindii%20.html
5	ALLUR PRATIBHA RAO .	5) CDs.	https://ycmou.ac.in/self_learning_material/ebook
6	AMBEKAR MAYURI RAVINDRA	6) Youtube,	5) https://www.youtube.com/results?search_query=alabhara
7	BACCHE SADHANA ULHAS	7) LCDs with PC,	ti+bed+2+mcq
8	BAGUL MANISHA GOVINDA	8) Mobile apps,	https://kishor.balbharti.in/Archives/aboutus.aspx
9	BANGAR TUSHAR DEVRAM	9) web-sites,	
10	BENDHARI RESHMA DATTATRAY	10) Mobile apps like English Grammar Learning,	
11	BEVAN JONATHAN MASCARENHAS ..	11) Psychology.	
12	BHAIRASHETTY RENUKA SHRAVAN		
13	BHAIRE SATINDAR BHIMRAO		
14	BHAVE ANKITA ANANDA		
15	BHUJBAL DIPALI ARUN		
16	BHUJBAL PIYALI SWAPNIL ..		
17	BORA SHEETAL CHAMPALAL		
18	CARDOZA ANTHEA AMON		
19	CHIDALE RASHMI SHRAVAN		
20	DAWANGE JAYASHRI CHANGDEO		
21	DESHMUKH PAYAL VIKAS		
22	DESHPANDE MANSI AMOL		
23	DHAMALE VINAYAK SHIVAJI		
24	DHIWAR PRATIMA CHHAGAN		
25	DHOMSE SUPRIYA PRABHAKAR		
26	DHUMAL MADHURI KAILAS		
27	DINDE SUJATA PRAKASH		
28	DOKE VAISHALI NILESH		
29	FIONA DINGER ..		
30	GAIKWAD PRIYANKA RAVINDRA		
31	GAIKWAD VAISHNAVI NAVNATH		
32	GAIKWAD VRUSHALI SANJAY		
33	GHANWAT PRATIKSHA BALU		
34	GOGADE RUPALI MARUTI		
35	HULE KHUSHBU CHANDRASHEKHAR		
36	JADHAV BHAGYASHRI UTTAM		
37	KADAM VASUNDHARA HARIPRASAD		
38	KALE NEELIMA SUSHIL		

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39	KAPSE SAKSHI PRAVEEN		
40	KASABE SOMNATH DEVIDAS		
41	KASHELANI HIMANSHU NANDKUMAR		
42	KENE PRATIMA RAJENDRAKUMAR		
43	KHUTWAD SONALI CHANDRAKANT		
44	KUTE PRASHANT SURESH		
45	LEESHA ANTHONY FERNANDES . .		
46	LONDHE APPA RAMCHANDRA		
47	MAHADIK ROHINI ANIL		
48	MANDE MANASI ASHISH		
49	MANIYAR ERAM ELIYAS		
50	MARKAD SHUBHANGI BHAGWAN		
51	MATKAR VAISHALI SHANKAR		
52	MHATRE SHEETAL SWAPNIL . .		
53	MINDE SATISH TUKARAM		
54	MINDE VITTHAL TUKARAM		
55	NEHERE SHITAL ANKUSH		
56	PAGAR SAVITA NITIN		
57	PATIL RUPALI ARVIND		
58	PATIL SACHIN RAMRAO		
59	PATOLE JYOTI VIJAY		
60	PAWALE NIKITA SHIVAJI		
61	PAWAR AARTI RAHUL		
62	PAWAR MADHURI VASANT		
63	PETHE PARUL PRASHANT		
64	POKHARKAR YASHOMATI RAMNATH		
65	POTWADE NUTAN DNYANESHWAR		
66	POTWADE RAJITA LAXMAN		
67	PRIYANKA MEHTA . .		
68	RAI POOJA UDAY . .		
69	RAJBHOJ REKHA MAHESH		
70	RETWADE RESHMA SUDAM		
71	RODRIGUES VANESSA ANN .		
72	SALUNKE ARCHANA SHIVAJI		
73	SAMANT PRANALI RAJENDRA		
74	SATYAVADAM SHERRY WILLIAM		
75	SHAIKH KASHAF ARIF		
76	SHALINI SINGH . .		
77	SHARMA GEETIKA DEVENDRA		
78	SHELAR GAURI MANGESH		
79	SHELKE NIKITA MADANRAO		
80	SHINDE REKHA BABURAO		
81	SHINDE VAISHALI DEEPAK		
82	SHRISUNDER KAMINI SURESH		
83	SINGH MANASI ARUN		
84	SINGH RANJANA MUKESH . .		
85	SULABHA BABU JOHN . .		
86	SUSHMA KUMARI SHARMA . .		
87	SUTAR MANISHA AMIT		
88	TAMALY CHOWDHURY . .		
89	TAMBOLI JAVED GANI		
90	TANK MAYURI ARUN		
91	THORAT SONALI SATU		
92	TIWARI PRIYA GOPAL		


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93	VISHAKHA SINHA . .		
94	WAGH JYOTI SANJAY		
95	WAGH SHANNON VINAY . .		
96	WALE RUPALI SOMNATH		
97	YADAV TRUSHAGNI VILAS		
98	YELWANDE SONALI RAJARAM		
99	YOGITA PATHAK . .		
100	GHONGADE SNEHA HARIDAS		
101	RAWADE LEENA SHARAD		
102	ACHARYA TRIVENI BANDU		
103	AHER SHOBHA DIGAMBER		
104	ANKUSH SMITA SUNIL		
105	BANKAR RUPALI ATUL		
107	BARNABAS ALLEN SHANTRAJ		
108	BHATT SHRUTI .		
109	BHIRUD VIDYA PARASHURAM		
110	DESHMUKH PRATIBHA SAHEBRAO		
111	DHAMDHARE ASHOK RAMDAS		
112	EATES ASHLEY .		
113	EATES PETRONELLA .		
114	GODBOLE PRAJAKTA SACHIN		
115	GONGLE SHRADDHA SHRIKANT		
116	GUPTA SARIKA PANKAJ		
117	HOLE SUREKHA VASANT		
118	JADHAV AMAR ASHOK		
119	JADHAV SADHANA AMAR		
120	JOSEPH ROSELEENA RAJNIKANT		
121	KHARATE SWATI EKNATH		
122	KHODE PARAG PURUSHOTTAM		
123	KUMARI PURVI . .		
124	LONDHE MAHESH MAHADEO		
125	MAHESH GANESH . .		
126	MOTADOD SAEELI RAVINDRA		
127	NAIR PRADEEPA MANIKANDAN . .		
128	NEGI GEETA TRILOK		
129	PANDE RUCHIRA DEVIDAS		
130	PANDHARE POONAM MAHESH		
131	PATIL VIDYA SUDHAKAR		
132	PATOLE JYOTI AMOL		
133	PAWAR MADHURI VASUDEV		
134	PESHIMAM SAADIYA ABDUL JALIL		
135	POTE PRANALI MUKUND		
136	ROHANKAR APARNA MURLIDHAR		
137	SARKI PARVATI CHANDRABHAN		
138	SAYYED WASEEM AYUB		
139	SHENDKAR SAGAR DASHRATH		
140	SHIRKE CHANDRASHEKHAR		
141	SIMON SELVARAJ ISRAEL . .		
142	SONAWANE SARIKA RAKESH		
143	USHA SINGH . .		
144	VIJAY MEENAKSHI .		
145	WALHEKAR JAYA SUNIL		



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CHAKAN , DIST. PUNE

B.Ed. TWO YEAR PROGRAMME – First Year

111 – A ICT Groupwise List

Sr.No	Date	Batch 1	Batch 2	Batch 3	Batch 4
1	7 May 2022 Saturday	Roll No.1 to 25	Roll No.26 to 50	Roll No.51 to 75	Roll No.76 to 100
	Guide By	Prof .Kachgunde S.H	Prof. Chandanshive S.B	Prof .Mahalle S.V	Prof .Sathe H.D
2	14 May 2022 Saturday	Roll No.1 to 25	Roll No.26 to 50	Roll No.51 to 75	Roll No.76 to 100
	Guide By	Prof .Kachgunde S.H	Prof. Chandanshive S.B	Prof .Mahalle S.V	Prof .Sathe H.D
3	21 May 2022 Saturday	Roll No.1 to 25	Roll No.26 to 50	Roll No.51 to 75	Roll No.76 to 100
	Guide By	Prof .Kachgunde S.H	Prof. Chandanshive S.B	Prof .Mahalle S.V	Prof .Sathe H.D
4	28 May 2022 Saturday	Roll No.1 to 25	Roll No.26 to 50	Roll No.51 to 75	Roll No.76 to 100
	Guide By	Prof .Kachgunde S.H	Prof. Chandanshive S.B	Prof .Mahalle S.V	Prof .Sathe H.D

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Ict Project – 111 – A

Peer No.	Sr. No.	Students Name	Practical Subject (ICT- Topics)	Remark
1)	1	SINHA VISHAKHA	Metal & Non Metal	Completed
	2	MEHTA PRIYANKA		Completed
2)	3	LONDHE APPA RAMCHANDRA	जंगलतोड आणि जागतिक तापमान वाढ	Completed
	4	BAGUL MANISHA GOVINDA		Completed
3)	5	DHOMSE SUPRIYA PRABHAKAR	वर्तुळ व वर्तुळ कंस	Completed
	6	GAIKWAD VRUSHALI SANJAY		Completed
4)	7	HARGUDE MONIKA VIJAY	Scientist –Vikram Sarabhai	Completed
	8	NEHERE SHITAL ANKUSH		Completed
5)	9	PAGAR SAVITA NITIN	त्रिकोण	Completed
	10	YADAV TRUSHAGNI VILAS		Completed
6)	11	MINDE SATISH TUKARAM	इतिहासाच्या अभ्यासाची साधने	Completed
	12	MINDE VITTHAL TUKARAM		Completed
7)	13	SHINDE REKHA BABURAO	THE SOLAR SYSTEM	Completed
	14	KUTE PRASHANT SURESH		Completed
8)	15	BHUJBAL DIPALI ARUN	सामाजिक जाण – मुलगी वाचवा	Completed
	16	PATIL RUPALI ARVIND		Completed
9)	17	BACCHE SADHANA ULHAS	Obama	Completed
	18	CHIDALE RASHMI SHRAVAN		Completed
10)	19	GAIKWAD PRIYANKA RAVINDRA	Stop Female Foeticides	Completed
	20	DAWANGE JAYASHRI CHANGDEO		Completed
11)	21	KENE PRATIMA RAJENDRAKUMAR	Prevention Of Disease.	Completed
	22	WAGH JYOTI SANJAY		Completed
12)	23	RAJBHOJ REKHA MAHESH	Respiratory System	Completed
	24	MHATRE SHEETAL SWAPNIL		Completed
13)	25	PAWAR MADHURI VASANT	Wind Energy	Completed
	26	MARKAD SHUBHANGI BHAGWAN		Completed
14)	27	DHIWAR PRATIMA CHHAGAN	Elements can be divided into metals	Completed
	28	JADHAV BHAGYASHRI UTTAM		Completed
15)	29	POTAWADE NUTAN DNYANESHWAR	Biotechnology	Completed
	30	PAWALE NIKITA SHIVAJI		Completed
16)	31	BANGAR TUSHAR DEVRAM	Swine Flu	Completed
	32	POKHARKAR YASHOMATI RAMNATH		Completed
17)	33	DHAMALE VINAYAK SHIVAJI	ATMOSPHERIC	Completed


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	34	GAIKWAD VAISHNAVI NAVNATH	PREESURE	Completed
18)	35	YELWANDE SONALI RAJARAM	Air Pollution	Completed
	36	AMBEKAR MAYURI RAVINDRA		Completed
19)	37	SALUNKE ARCHANA SHIVAJI	E- Communication	Completed
	38	RAI POOJA UDAY		Completed
20)	39	POTWADE RAJITA LAXMAN	NATURE CONSERVATION	Completed
	40	RETWADE RESHMA SUDAM		Completed
21)	41	MATKAR VAISHALI SHANKAR	Parts of the speech	Completed
	42	SHARMA SUSHMA KUMARI		Completed
22)	43	SUTAR MANISHA AMIT	Deforestation "No trees No breeze"	Completed
	44	GOGADE RUPALI MARUTI		Completed
23)	45	BHAIRE SATINDAR BHIMRAO	भारताची सांस्कृतिक विविधता	Completed
	46	AGHAV ARCHANA PRAVIN		Completed
24)	47	SHINDE VAISHALI DEEPAK	uman occupation	Completed
	48	KADAM VASUNDHARA HARIPRASAD		Completed
25)	49	SHAIKH KASHAF ARIF	Scientist	Completed
	50	SHELKE NIKITA MADANRAO		Completed
26)	51	SINGH RANJANA MUKESH	Project on HIV	Completed
	52	DHUMAL MADHURI KAILAS		Completed
27)	53	KHUTWAD SONALI CHANDRAKANT	The great Energy...solar	Completed
	54	CHOWDHURY TAMALY		Completed
28)	55	DOKE VAISHALI NILESH	Computer Knowledge	Completed
	56	MAHADIK ROHINI ANIL		Completed
29)	57	THORAT SONALI SATU	Non conventional energy	Completed
	58	GHANWAT PRATIKSHA BALU		Completed
30)	59	ALLUR PRATIBHA RAO	Demography	Completed
	60	AZMINA MUSTAFA AGA		Completed
31)	61	BEVAN JONATHAN MASCARENHAS	Prime Minister Manmohan sing	Completed
	62	DINDE SUJATA PRAKASH		Completed
32)	63	FERNANDES LEESHA ANTHONY	Natural Resources	Completed
	64	FIONA DINGER		Completed
33)	65	JOHN SULABHA BABU	Save tress	Completed
	66	KASHELANI HIMANSHU NANDKUMAR		Completed
34)	67	PATHAK YOGITA	Tsunami	Completed


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	68	RODRIGUES VANESSA ANN		Completed
35)	69	SINGH SHALINI	Student - teacher Relationship	Completed
	70	WAGH SHANNON VINAY		Completed
36)	71	TIWARI PRIYA GOPAL	English Diagnostic	Completed
	72	PATIL SACHIN RAMRAO		Completed
37)	73	BHUIBAL PIYALI SWAPNIL	Sant Of Maharashtra	Completed
	74	KALE NEELIMA SUSHIL		Completed
38)	75	KAPSE SAKSHI PRAVEEN	The Fort OF India	Completed
	76	PATOLE JYOTI VIJAY		Completed
39)	77	WALE RUPALI SOMNATH	Mahatma Gandhi	Completed
	78	BORA SHEETAL CHAMPALAL		Completed
40)	79	TANK MAYURI ARUN	Bio Fuels	Completed
	80	ALLUR PRATIBHA RAO	Metal & non metal	Completed
41)	81	BHAIRASHEETY RENUKA SHRAVAN	Non conventional Energy Sources, Bio Fuels	Completed
	82	CARDOZA ANTHEA		Completed
42)	83	DESHPANDE MANSI AMOL	Bio Fuels	Completed
	84	HULE KHUSHBU CHANDRASHEKHAR		Completed
43)	85	PETHE PARUL PRASHANT	Soler energy Ab	Completed
	86	PAWAR ARATI RAHUL		Completed
44)	87	SAMANT PRANALI RAJENDRA	Trees in our life, Water pollution	Completed
	88	SATYAVADAM SHERRY		Completed
45)	89	SHARMA GEETIKA	Water resoures its management, Highway to Health	Completed
	90	SHELAR GAURI MANGESH		Completed
46)	91	SINGH MANASI ARUN	Newtons laws of Motion	Completed

92. Wale Rupali

Mahatma Gandhi ✓

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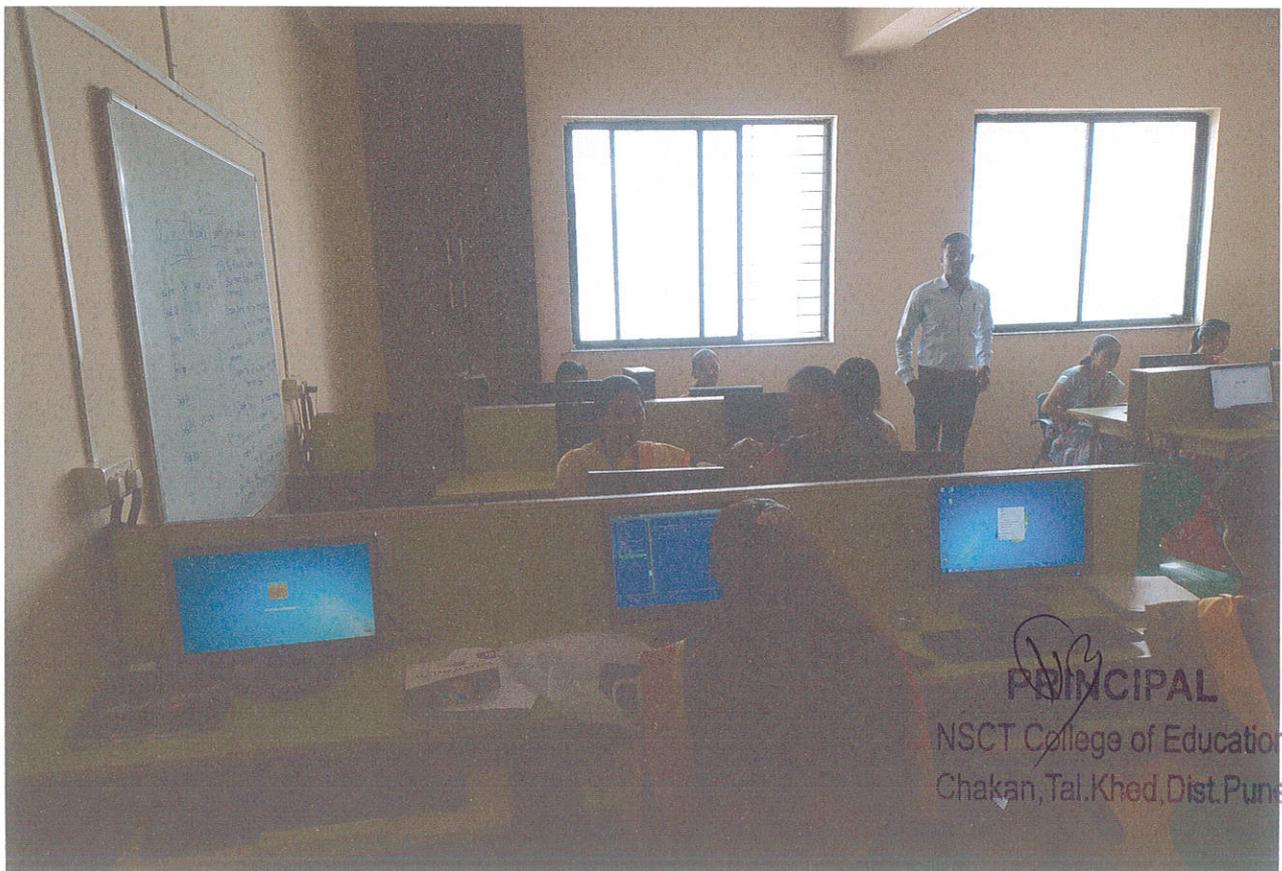
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III (A) ICT- Intel Programme

Batch No. 02

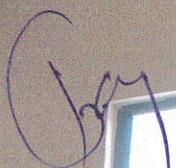
B-Ed (First Year)

Guided by - Sathe Sir



Guidance Prof. Jagtap Sir,




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Unit Plan Template

Unit Author	
First and Last Name	MHATRE SHEETAL SWAPNIL
College Name	Nav Sahyadri Charitabel Trust, College Of Education, Chakan, Pune
School Name	Vidya Niketan English Medium School, chakan Tal – khed , Dist - Pune
School City, State	Dist-Pune
Unit Overview	
Module 2: Think of a topic and possible project scenario for your unit. Revise this section as you work through the remaining modules. Write first draft of your Unit Summary.	
Unit Title	
Human Respiratory System	
Unit Summary	
The respiratory system (also respiratory apparatus, ventilatory system) is a biological system consisting of specific organs and structures used for gas exchange in animals and plants. The anatomy and physiology that make this happen varies greatly, depending on the size of the organism, the environment in which it lives and its evolutionary history. In land animals the respiratory surface is internalized as linings of the lungs. ^[1] Gas exchange in the lungs occurs in millions of small air sacs called alveoli in mammals and reptiles, but atria in birds.	
Subject Area	
Science	
Class Level	
For 9 th standard student	
Approximate Time Needed	
Near about 1 month time is necessary to study area.	
Unit Foundation	
<ul style="list-style-type: none"> Module 2: Choose 21st century skills, higher-order thinking skills, syllabus guidelines, unit topic, create objectives, and develop Curriculum-Framing Questions for your unit. Revise this section as you work through the remaining modules. 	
Targeted Syllabus Guidelines	


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1. Trying to understand a text.
2. Trying to understand the purpose of respiratory system
3. Using dictionaries and other reference book.
4. Correcting their work.
5. Trying to correct compose English sentence phrases on their own.
6. Trying to understand the labeling of respiratory system

Targeted 21st Century and Higher Order Thinking Skills

In India hunting of the animal for any reason deforestation is a criminal offence and the person or the organization involved in the actions are severely punished.

Communication skill: student participate with seminar and many types of Energy workshop there communication skill are well.

Technology : Students used a Technology on our with learning process.

Student Objectives/Learning Outcomes

1. To give information about human respiratory system.
2. To give information about labeling of human respiratory system.
3. To give information about other respiratory system.
4. To understand the details component of human respiratory system

Curriculum-Framing Questions

Essential Question	<i>What is main purpose of respiratory system?</i>
Unit Questions	Who provides the oxygen to tissues? Who remove the carbon dioxide from body?
Content Questions	Draw human respiratory system and labeled each component.

Assessment Plan

- o **Module 3:** Draft an Assessment Timeline.
- o **Module 6:** Draft an Assessment Summary and create an assessment to gauge student needs. Create an assessment for your student sample.
- o **Module 7:** Create an assessment to foster student self-direction and update your Assessment Plan.

Assessment Timeline

Before project work begins		Students work on projects and complete tasks		After project work is completed	
<i>To Make this project. I got the information about Respiratory System. From the library internet and Television, Book'd News</i>	<i>I Will make a project presentation teach student's. I Will use pictures. Models video and slid to</i>	<i>Then they circulate this information to their society, neighbor, relative's and illiterate people also.</i>	<i>Then all the people of society then Ware know as the respiratory</i>	<i>Student started to collect the more information about the human respiratory system</i>	


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peper's, other re-sources like as people.	teach this topic.		system.			
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Assessment Summary

Before project work begins many student dose not aware about respiration system. The respiratory system (also respiratory apparatus, ventilatory system) is a biological system consisting of specific organs and structures used for gas exchange in animals and plants. The anatomy and physiology that make this happen varies greatly, depending on the size of the organism, the environment in which it lives and its evolutionary history.

Unit Details

Prerequisite Skills

Student having the previous knowledge about the respiratory system.

Instructional Procedures

- o **Module 5:** Create a student sample and draft Instructional Procedures.

Update Instructional Procedures to include:

- o **Module 6:** Assessment methods used throughout unit
- o **Module 7:** Differentiation strategies
- o **Module 8:** Facilitation and implementation strategies

Accommodations for Differentiated Instruction

- o **Module 7:** Draft ideas to support all learners and create student support material.

Special Needs Student Students who are a have to understood any thinking and we want to give information about the respiratory system. Than we can teach through the picture, daily examples.

Gifted/Talented Student For gifted student we can give them extra information and though communication we can inert out ideas tactic to spread knowledge about the respiratory system.

Materials and Resources Required for Unit

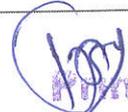
- o **Module 4:** Identify Internet resources for research, communication, collaboration, and problem solving.
- o **Module 5:** Incorporate into your Instructional Procedures.

Technology—Hardware(Click boxes of all equipment needed)

<input type="checkbox"/> Camera	<input type="checkbox"/> Laser Disk	<input type="checkbox"/> VCR
<input checked="" type="checkbox"/> Computer(s)	<input type="checkbox"/> Printer	<input type="checkbox"/> Video Camera
<input type="checkbox"/> Digital Camera b	<input checked="" type="checkbox"/> Projection System	<input type="checkbox"/> Video Conferencing Equip.
<input type="checkbox"/> DVD Player	<input type="checkbox"/> Scanner	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Internet Connection	<input checked="" type="checkbox"/> Television	

Technology—Software(Click boxes of all software needed.)

<input checked="" type="checkbox"/> Database/Spreadsheet	<input type="checkbox"/> Image Processing	<input type="checkbox"/> Web Page Development
<input type="checkbox"/> Desktop Publishing	<input checked="" type="checkbox"/> Internet Web Browser	<input checked="" type="checkbox"/> Word Processing
<input type="checkbox"/> E-mail Software	<input type="checkbox"/> Multimedia	<input type="checkbox"/> Other
<input type="checkbox"/> Encyclopedia on CD-ROM		


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Printed Materials	<i>Books</i>
Supplies	<i>Magazines</i>
Internet Resources	www.google.com
Other Resources	<i>Group discussion, Field trip</i>

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WELCOME



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The Life Process of Respiration

Biology

Unit 7

**Navsahyadri Trust College
of Education, Chakan
Tal- Khed, Dist – Pune-
410501**

NAME

MHATRE SHEETAL SWAPNIL

ROLL NO

56

Navsahyadri Trust College of Education, Chakan
Tal- Khed, Dist – Pune- 410501

EDUCATIONAL YEAR

2021-22

I. Cellular Respiration

A. Purpose:

1. Energy is extracted from glucose, as it is broken down into simpler compounds.
2. This energy is stored as a high energy molecule called ATP.

II. Anaerobic Respiration

A: **Description:** occurs in the absence of “free”
oxygen.

II. Anaerobic Respiration

C. Results of Anaerobic Respiration:

- net gain of 2 molecules of ATP per glucose molecule taken apart.
- In humans anaerobic respiration is the first step in a two step process.

II. Anaerobic Respiration

- In other organisms, anaerobic respiration is their only method of making energy.
- Waste products made include alcohol and lactic acid. (Fermentation)

III. Aerobic Respiration

A. Definition-

- results in the net synthesis of **36 ATP molecules.**

III. Aerobic Respiration

B. Process:



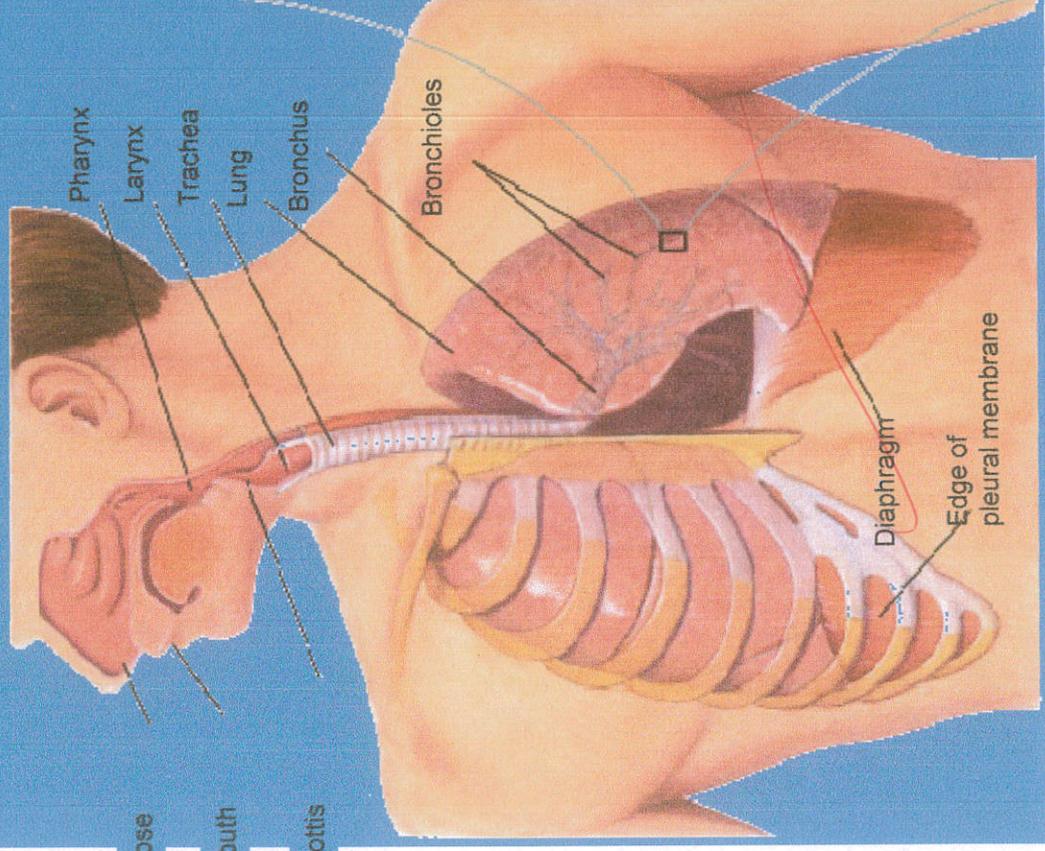
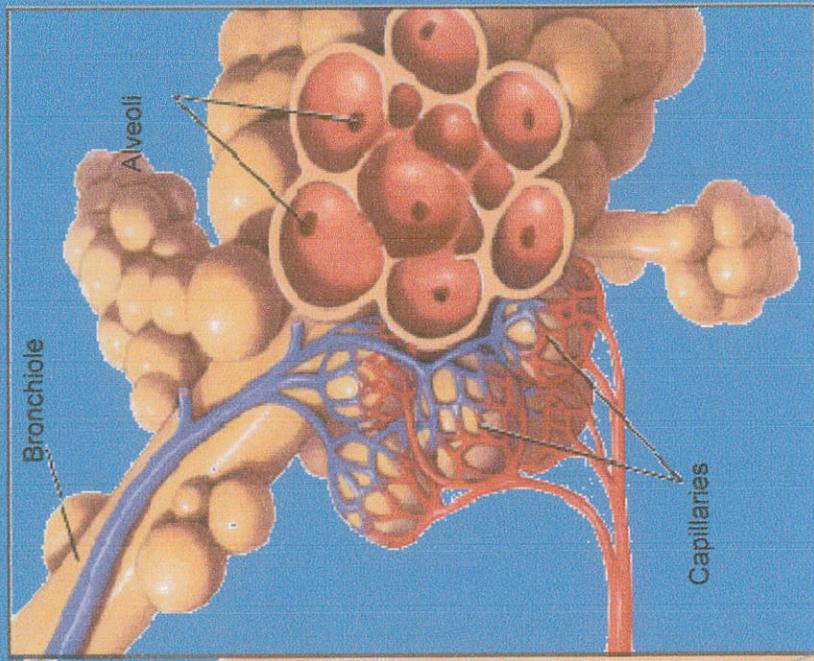
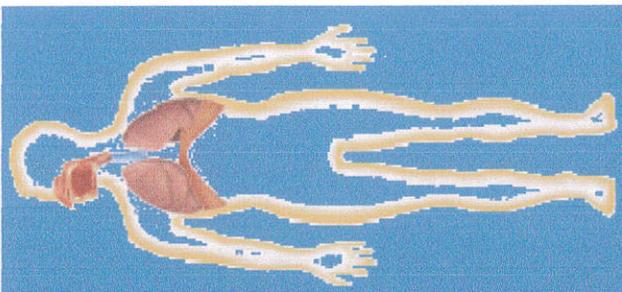
1. The Anaerobic phase is the first step of Aerobic respiration (2 ATP made)
2. The second (Aerobic) phase is known as the **Krebs Cycle (2 ATP made)**
3. The third phase, which produces the most energy, is called the electron transport chain. (32 ATP made)

IV. Human Respiratory System

I. Human Respiratory System

Purpose

- Your external body surface is dry and impermeable to gases.
Lungs provide a thin, moist internal surface for the exchange of gases.
- Oxygen is required for cellular respiration and carbon dioxide, a waste gas, needs to be removed from the body.
- Gases are transported throughout the body by hemoglobin in the red blood cells.



Nose

Mouth

Epiglottis

Pharynx

Larynx

Trachea

Lung

Bronchus

Bronchioles

Diaphragm

Edge of pleural membrane

Human Respiratory System

B. Structures

1. Nose: Air enters the body through the nostrils.
 - a. Nostrils contain hairs which trap dirt and foreign particles from entering the body.
 - b. Walls of nasal cavity are lined with mucus which also trap dirt and moistens the air.
 - c. Large number of capillaries near the surface of the nostrils warm the air as it enters the body.

Human Respiratory System

2. Pharynx and Larynx

- a. Air enters the Pharynx (throat) from the nasal cavity.
- b. The air then passes into the Larynx (voice box)
 - composed of cartilage.
 - vocal cords: pairs of membranes stretched across the larynx; their vibration creates sound.

Human Respiratory System

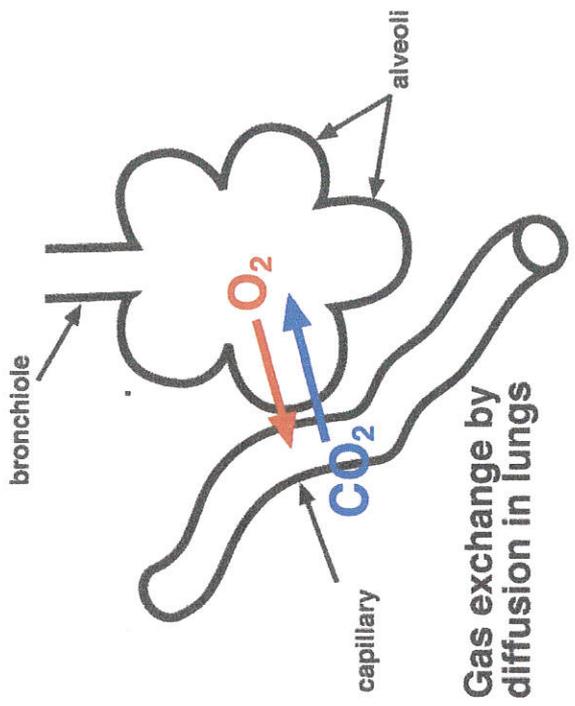
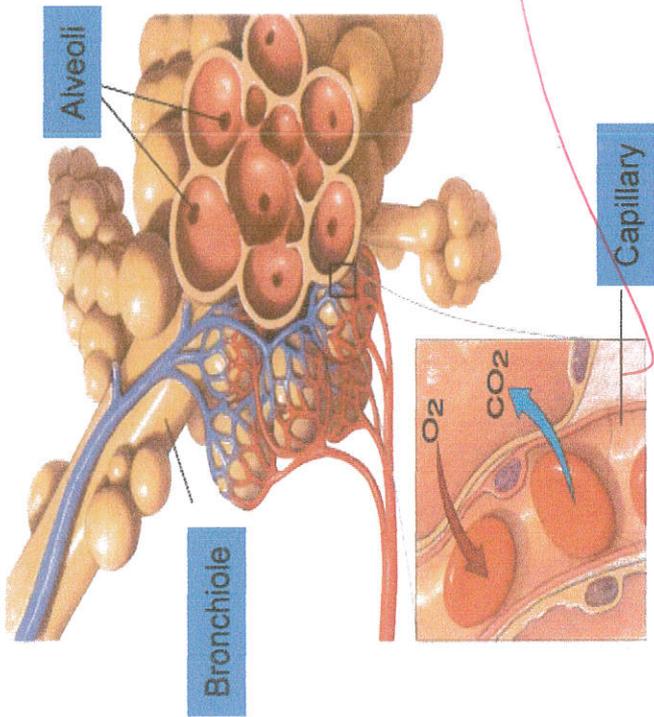
3. Trachea
 - a. Connects with the larynx and is covered by the epiglottis to prevent choking.
 - b. The Trachea is kept open by horseshoe rings of cartilage.
 - c. Lined with cilia and mucus which trap foreign matter

Human Respiratory System

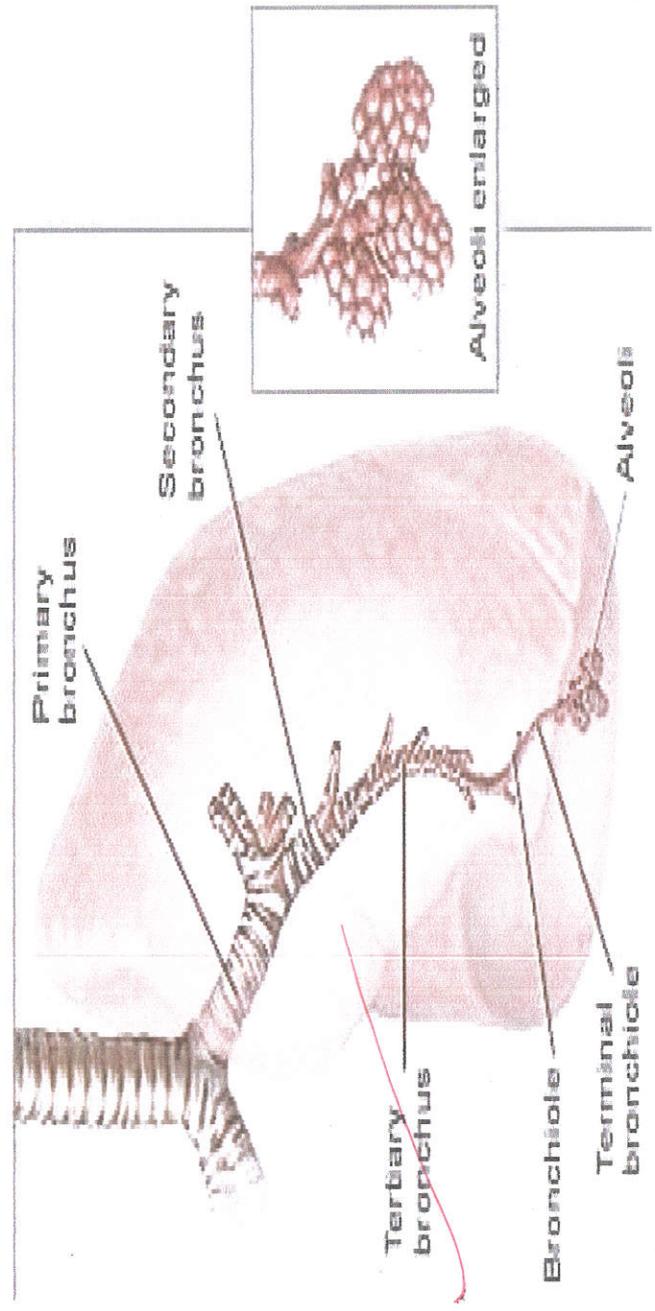
4. Bronchi and Bronchioles
 - a. Bronchi: 2 cartilage ringed tubes that branch off the trachea
 - Lined with cilia
 - Entrance way to the lungs
 - b. Bronchioles: branch off the bronchi
 - Divide and become smaller, thinner with less cartilage

Human Respiratory System

5. Alveoli
 - a. Tiny air chambers at the end of the bronchioles.
 - b. Walls are 1 cell thick and moist from mucus.
 - c. Surrounded by capillaries.
 - d. Through the alveoli walls, the exchange of oxygen and carbon dioxide takes place.



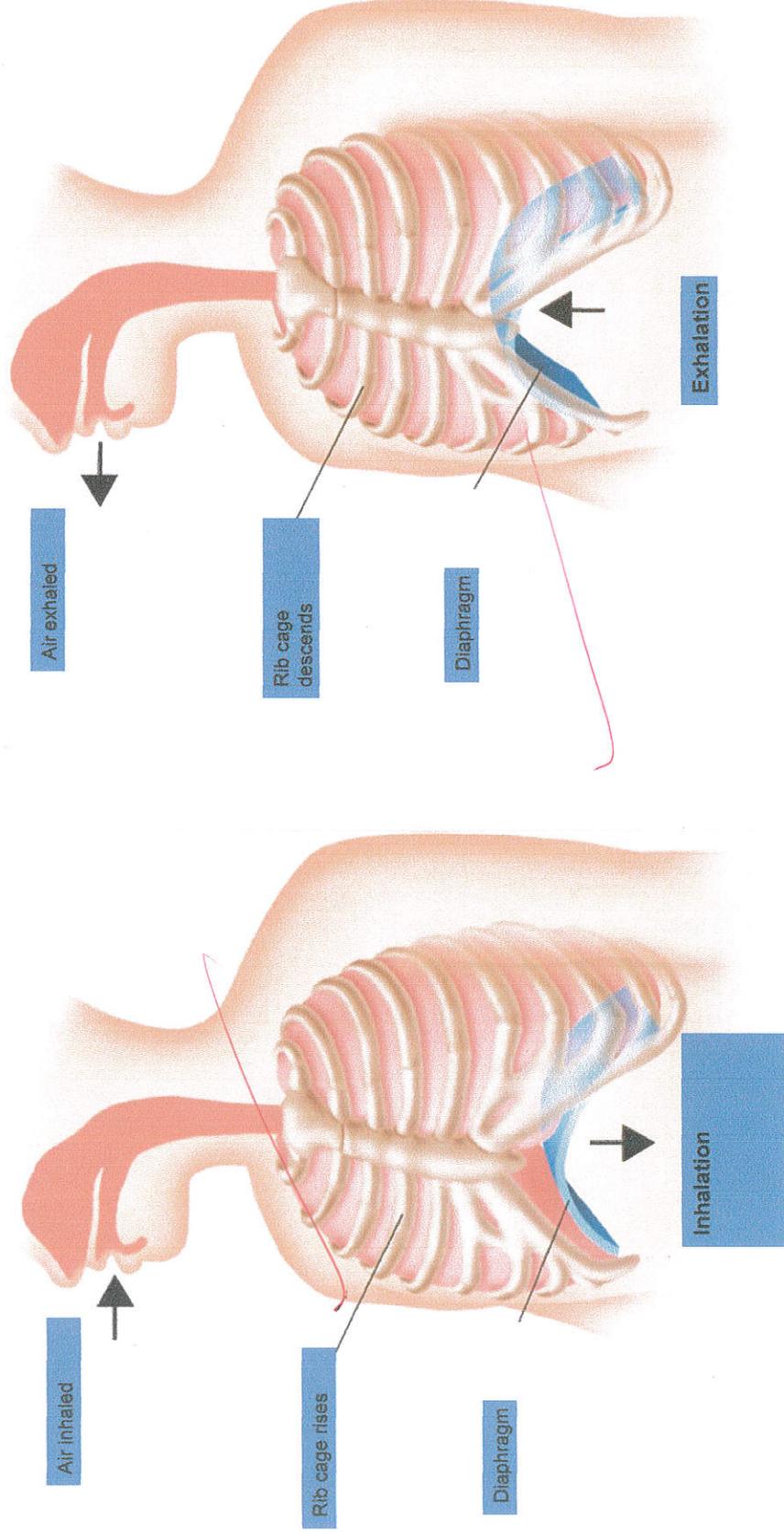
Gas exchange by diffusion in lungs



II. Breathing

A. Definition: the physical process by which air is moved into and out of the lungs.

The Mechanics of Breathing



II. Breathing

1. Inhalation draws air into the lungs. a. Active phase of breathing.

b. Ribs are pulled up and out, while the diaphragm is pulled downward.

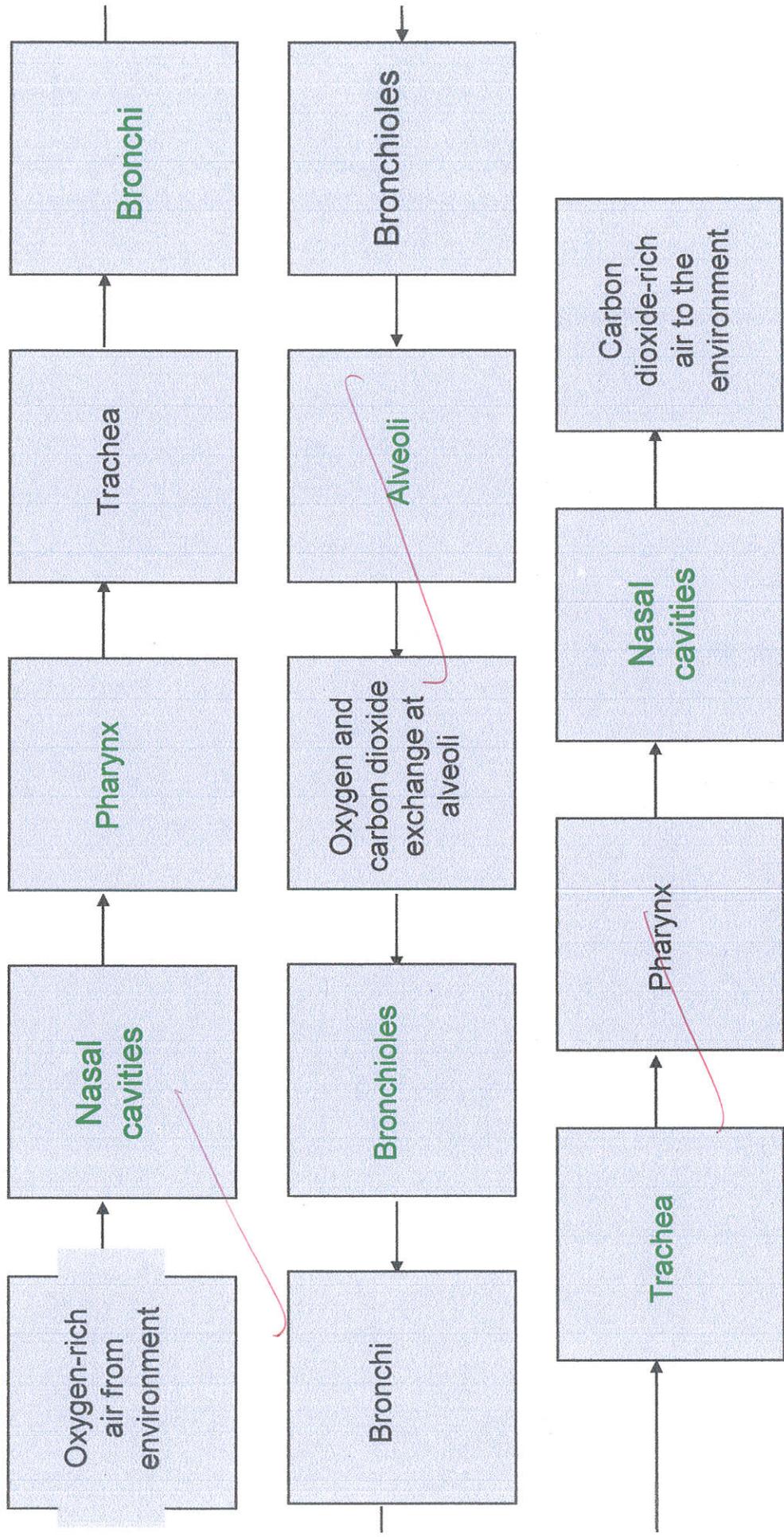
-The chest cavity becomes larger.

This causes pressure within the chest cavity to decrease which brings air into the lungs forcing them to open.

II. Breathing

2. Exhalation allows air out of the lungs.
 - a. Passive phase of breathing
 - b. Diaphragm relaxes and moves up. Rib muscles relax causing the ribs to drop. The chest cavity becomes smaller which increases the pressure inside; this will force air out of the lungs and into the environment.

Movement of Oxygen and Carbon Dioxide In and Out of the Respiratory System



III. Malfunctions of the Respiratory System

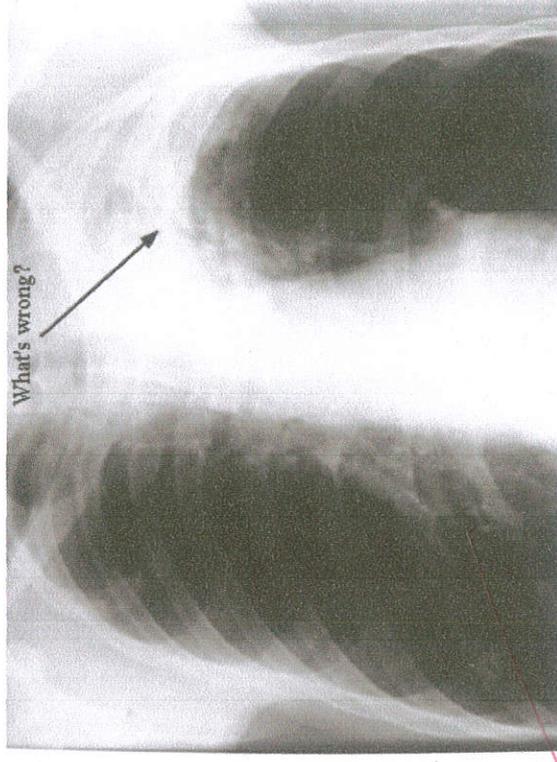
A. Emphysema:

1. Caused by smoking.
2. Particles from cigarette smoke accumulate on the alveoli walls causing inelastic scar tissue to form.
3. This decreases the working area of the respiratory surface.
 - Lungs lose their elasticity.
4. Characterized by shortness of breath, difficulty exhaling, and decreased lung capacity.

III. Malfunctions of the Respiratory System

B. Lung Cancer

1. Disease in which tumors (masses of tissue) form in the lungs as a result of irregular and **uncontrolled cell growth.**
2. Linked to smoking.



III. Malfunctions of the Respiratory System

C. Asthma

1. Severe allergic reaction in which the contraction of the bronchioles makes breathing difficult.

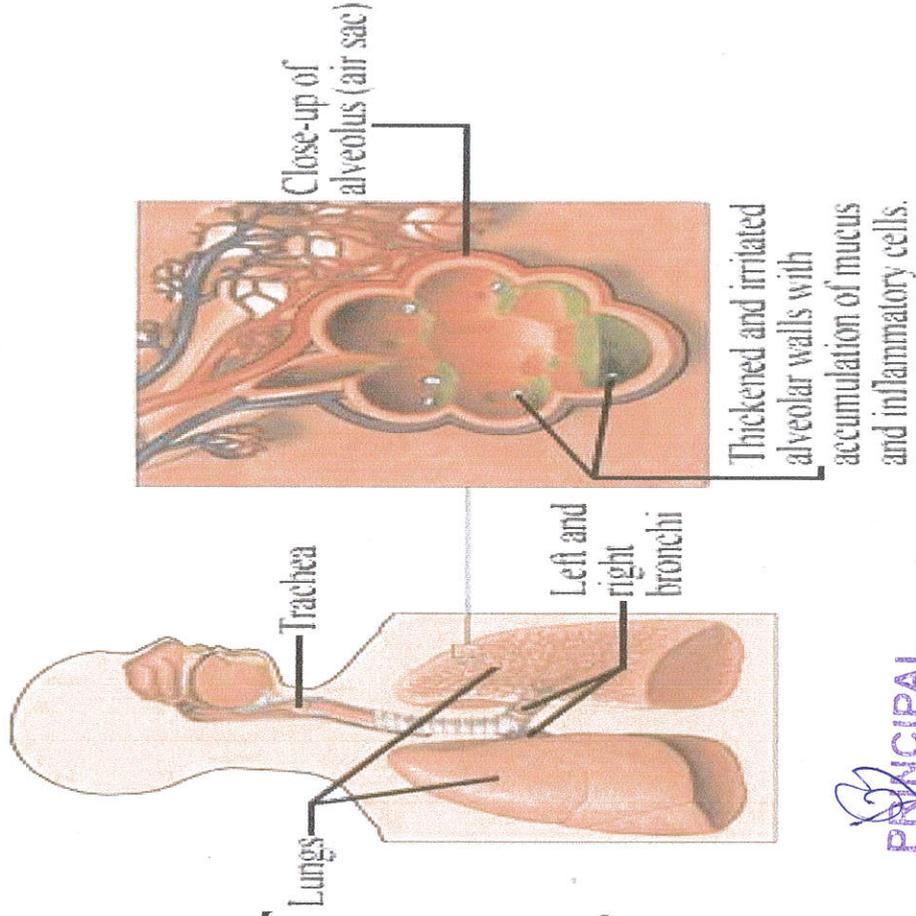
D. Bronchitis

1. Inflammation of the lining of the bronchial tubes.
2. Passageways to alveoli become swollen and clogged with mucus.
3. Marked by severe coughing and difficulty breathing.

III. Malfunctions of the Respiratory System

E. Pneumonia

1. Alveoli become filled with fluid preventing the exchange of gases in the lungs.



NAV SAHYADRI CHARITABLE TRUST'S
COLLEGE OF EDUCATION (B.Ed.), CHAKAN

B.Ed. 1st Year 2021-22

105 - ICT

Sr. No.	Candidate Name	Educational App. (Mobile App)
1	AMBEKAR MAYURI RAVINDRA	Doubtnut
2	ANKITA ANAND BHAVE	Teachmint
3	ANTHEA AMON CARDOZA	Ganda
4	ARATI RAHUL PAWAR	Gauthmath
5	ARCHANA PRAVIN AGHAV	Hazacus
6	BACCHE SADHANA ULHAS	Learn abacus
7	BAGUL MANISHA GOVINDA	Simple soroban
8	BANGAR TUSHAR DEVRAM	All maths formulas
9	BENDHARI RESHMA DATTATRAY	Discovery
10	BHAIRE SATINDAR BHIMRAO	Puzzle
11	BHUJBAL PIYALI SWAPNIL	Sudoku
12	DAWANGE JAYASHRI CHANGDEO	Indian History
13	DESHMUKH PAYAL UDAY	Yellow class
14	DHAMALE VINAYAK SHIVAJI	Abacus
15	DHIWAR PRATIMA CHHAGAN	Science sangrah official
16	DHUMAL MADHURI KAILAS	History point
17	DIPALI ARUN BHUJBAL	Indian & World History
18	DOKE VAISHALI NILESH	BBC History magazine
19	FIONA DINGER	Extramarks
20	GAIKWAD VAISHNAVI NAVNATH	The history of every thing
21	GAURI MANGESH SHELAR	Geography and Agricultural
22	GEETIKA SHARMA	India Geography
23	GHANWAT PRATIKSHA BALU	Know Abacus
24	GOGADE RUPALI MARUTI	The vision Geography
25	HARGUDE MONIKA VIJAY	Science GK
26	HIMANSHU NANDKUMAR KASHELANI	Learn Marathi
27	JADHAV BHAGYASHRI UTTAM	Science Basics
28	JYOTI SANJAY WAGH	General science book
29	KADAM VASUNDHARA HARIPRASAD	Topper
30	KALE NEELIMA SUSHIL	Your classes
31	KASABE SOMNATH DEVIDAS	English Marathi dictionary
32	KENE PRATIMA RAJENDRAKUMAR	Learn Hindi
33	KHUSHBU CHANDRASHEKHAR HULE	shabd Gyan
34	KHUTWAD SONALI CHANDRAKANT	Unacademy learner app
35	KUTE PRASHANT SURESH	Diksha app
36	LONDHE APPA RAMCHANDRA	Vedantu app
37	MAHADIK ROHINI ANIL	Aakash app
38	MANASI ARUN SINGH	Brainly app
39	MANASI ASHISH MANDE	White hat JS. app
40	MANIYAR ERAM ELIYAS	शब्दज्ञान
41	MANSI AMOL DESHPANDE	Gurukul
42	MARKAD SHUBHANGI BHAGWAN	swayam app
43	MATKAR VAISHALI SHANKAR	Khan Academy
44	MEHATA PRIYANKA	Easy physics
45	MHATRE SHEETAL SWAPNIL	study blue

Sr. No.	Candidate Name	Educational App.
46	MINDE SATISH TUKARAM	Shiksha anande swayam
47	MINDE VITTHAL TUKARAM	History hint Geograph and Agriculture
48	NEHERE SHITAL ANKUSH	physics Guru
49	PAGAR SAVITA NITIN	Duolingo
50	PARUL PRASHANT PETHE	Right way educational point
51	PATIL RUPALI ARVIND	Udemy
52	PATIL SACHIN RAMRAO	Noon Academy
53	PATOLE JYOTI VIJAY	Wikipedia
54	PAWALE NIKITA SHIVAJI	physics padho
55	PAWAR MADHURI VASANT	Creative educational idea
56	POKHARKAR YASHOMATI RAMNATH	ANTON
57	POTAWADE NUTAN DNYANESHWAR	phyrina
58	PRANALI RAJENDRA SAMANT	Quill
59	PRATIBHA RAO ALLUR	study IQ
60	RAI POOJA UDAY	Utkarsh
61	RASHMI SHRAVAN CHIDALE	Learnvern Online classes
62	REKHA MAHESH RAJBHOJ	TED
63	RENUKA SHRAVAN BHAIASHEETY	LinkedIn Learning
64	SAKSHI PRAVEEN KAPSE	Learn app
65	SALUNKE ARCHANA SHIVAJI	Next Learning platform
66	SHAIKH KASHAF ARIF	Simplilearn
67	SHALINI SINGH	ada class
68	SHARMA SUSHMA KUMARI	Vidyakul
69	SHELKE NIKITA MADANRAO	uLesson Educational app
70	SHERRY WILLIAM SATYAVADAM	Great Learning
71	SHINDE REKHA BABURAO	Practically
72	SHINDE VAISHALI DEEPAK	Wondrium
73	SHRISUNDER KAMINI SURESH	The great Courses
74	SINGH RANJANA MUKESH	ePathshala
75	SUJATA PRAKASH DINDE	Tutopia Learning app
76	SULABHA BABU JOHN	Shaw Academy
77	SUPRIYA PRABHAKAR DHOMSE	visual physics
78	SUTAR MANISHA AMIT	Geography app
79	TAMALY CHOWDHURY	Fliplearn
80	TAMBOLI JAVED GANI	pschool Vedantu App
81	TANK MAYURI ARUN	DBC Learning English
82	THORAT SONALI SATU	Brilliant
83	TIWARI PRIYA GOPAL	Speed Learning
84	VANESSA ANN RODRIGUES	Glose for Education
85	VISHAKHA SINHA	Brilliant physics
86	WAGH SHANNON VINAY	Prodigy Math game
87	WALE RUPALI SOMNATH	English Grammar book
88	YADAV TRUSHAGNI VILAS	Brain Train education
89	YELWANDE SONALI RAJARAM	Logic - educational app
90	YOGITA PATHAK	BYJU'S
91	GAIKWAD PRIYANKA	Punjab Educare
92	GAIKWAD VRUSHALI SANJAY	Complete Biology
93	RETWADE RESHMA SUDAM	Dictionary PCB
94	POTAWADE RAJITA LAXMAN	unAcademy

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Introduction

SWAYAM is a programme initiated by Government of India and designed to achieve the three cardinal principles of Education Policy viz., access, equity and quality.

SWAYAM is a Sanskrit acronym that stands for "Study Webs of Active - Learning for Young Aspiring Minds." SWAYAM has been developed cooperatively by MHRD (Ministry of Human Resource Development) and AICTE (All India Council for Technical Education) with the help of Microsoft and is equipped for facilitating 2000 courses.

The platform offers free access to everyone and hosts courses from class 9 to post-graduation. It enables professors and faculty of centrally funded institutes like IITs, IIMs, IISERs, etc. to teach students.

Government of India under Digital India to give a coordinated stage and free entry to web courses, covering all advanced education, High School and skill sector courses. It was launched on 9th July 2017 by Honorable President of India.

Concept Of Mobile App

A mobile app is a software application developed specifically for use on small, wireless computing devices, such as smartphones and tablets, rather than desktop or laptop computers.

Mobile applications frequently serve to provide users with similar services to those accessed on PCs. Apps are generally small, individual software units with limited function. This use to app software was originally popularized by Apple Inc. and its App store, which offers thousands of applications for the iPhone, iPad & iPod Touch.

A mobile application also may be known as an app, web app, online app, iPhone app or Smartphone app.

Apps are divided into two broad categories; native and web apps.

Web apps user require a stable connection to be used.

General Educational Uses Of Mobile App

A digital learning platform, SWAYAM offers students a variety of e-learning courses and certifications. Using Swayam, pupils can continue with their studies, without having to rely on external physical education infrastructure.

Moreover, through SWAYAM, students can interact with teachers for resolving their doubts by attending the classes. They can pursue courses in different streams via this portal. These include Architecture, Management, Engineering, Law, among others.

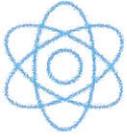
The Swayam e-learning portal helps pupils to continue with their studies during the COVID-19 outbreak when educational institutions are closed indefinitely.

A free and interactive medium, SWAYAM offers a host of educational material.

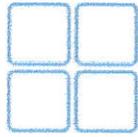
Technical Description Of The Mobile App



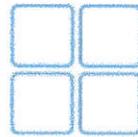
Maths & Sciences



Applied Sciences



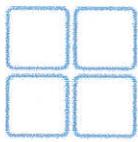
Biotechnology



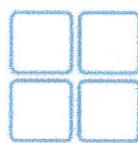
Botany



Chemistry



Computer Applications



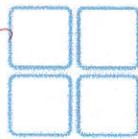
Computer Science



Earth Sciences



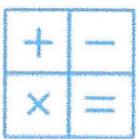
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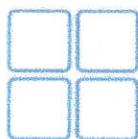
Information Technology



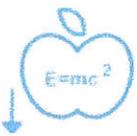
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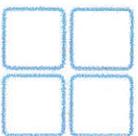
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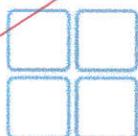
Microbiology



Physics



Zoology



View All

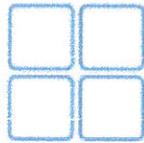




Categories



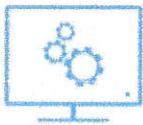
Architecture and Planning



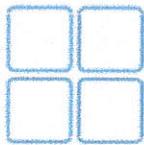
Annual Refresher Programme in Teaching



Teacher Education



Engineering and Technology



Health Sciences



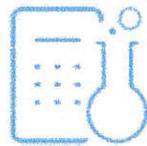
Humanities & Arts



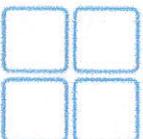
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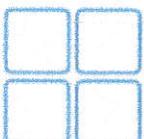
Management & Commerce



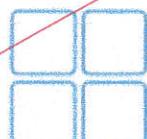
Maths & Sciences



NPTEL Domain



School



View All



Features In The SWAYAM APP

Below are the main Features of the Swayam App.

- 1) Topicwise dedicated detailed video lectures.
- 2) Specially devised reading material that can be downloaded and printed.
- 3) Topicwise self-assessment tests at end of each module.
- 4) Online discussion forum for clearing doubts.
- 5) Special guidance from expert and experienced faculty.
- 6) Provision for getting certificate after course completion.

Educational Implications Of The SWAYAM APP

The said course is a support to teacher and student alike ; it provides a number of sources to addition to available text books and in the case of students , if he has not attend the classes and if in some of the institutions , if teachers are not available then this particular course will help to maximum extent fulfill the needs of both the teacher and the student. Some educational implications of swayam App - they are as follows ;

- 1) All courses on SWAYAM are free ; however there will be a prescribed fee for appearing for respective course.

- 2) Swayam is not only for students but also for those in various employments.
- 3) As India is known for its multilingualism, this course will help provide an opportunity to promote the courses in as many languages as possible.
In other words, it can be said that the learner will get their own discipline in 'one platform' and can take the course of their choice of language.
- 4) In SWAYAM one can find heterogeneous learners; this promotes interaction and the sharing of different ideas & disciplines.
- 5) It helps, promote creativity and also learning in an 'inter-professional' educational environment.
- 6) An individual learner's progress can be evaluated at any time during the course to understand where he actually stands or even for self-assessment.

Limitations of the Swayam App

Below are the few limitations of Swayam App.:

- (1) Students need to pay the fee for getting the certificate for completed course. These facilities are not free of cost.
- (2) Swayam App is useful only for students above class 9th. It does not have courses and study material for lower standards.
- (3) To use Swayam App internet connection is must. In the remote and hilly areas where internet is not available, students can not complete video lecture courses.
- (4) The communication tools such as 'Announcement' & 'Discussion Board' are not accessible to etutors to communicate any important

message to learners after the due completion date of the course schedule.

(5) The weekly 'Tests' and 'Assignments' of Swayam App do not have the option to extend the due date.

(6) Access to any of the econtent on SWAYAM course requires Adobe plugin. It cannot be accessed by an internet browser alone. The lack of compatibility of adobe plugin on all the mobile devices creates difficulty in getting access to the econtent by mobile users.

(7) Website and App both are not Mobile users friendly.

Suggestions to Improve App

'SWAYAM' APP has become very popular in short time. But there are some things that need to be improved.

- 1) Swayam App is useful for a student's above 9th class only. Courses for the students of lower standards also can be made available.
- 2) Online courses for professional and vocational degrees also can be started on the Swayam App.
- 3) Professors and Teachers of private colleges can also collaborate on the Swayam App courses.
- 4) Certificates for the completed courses can be made available free of costs to the students.

10:25 AM

4G+ 99

swayam



MHRD Initiative
Government of India

Screenshots of
Mobile App



Course Catalog



UPCOMING
(enrolment open)

ONGOING
(enrolment closed)



AICTE

Applications of GeoGebra

4 Weeks (Starts: Mon Apr 13 2020)



AICTE

Critical Thinking

Self Paced



CEC

Introduction to R

15 Weeks (Starts: Mon Jan 03 2022)



CEC

Numerical Analysis

15 Weeks (Starts: Mon Jan 10 2022)



CEC

Operations Research

15 Weeks (Starts: Sun Jan 16 2022)



AICTE

R

12 Weeks (Starts: Sat Mar 28 2020)





Course Catalog



UPCOMING
(enrolment open)

ONGOING
(enrolment closed)



NPTEL

Advanced Probability Theory

12 Weeks (Starts: Mon Jan 24 2022)



NPTEL

Algebra - II

12 Weeks (Starts: Mon Jan 24 2022)



NPTEL

Algebraic Combinatorics

12 Weeks (Starts: Mon Jan 24 2022)



NPTEL

An introduction to Point-Set-Topology Part-I

12 Weeks (Starts: Mon Jan 24 2022)



NPTEL

An invitation to Topology

12 Weeks (Starts: Mon Jan 24 2022)



CEC

Applied Multivariate Analysis

15 Weeks (Starts: Mon Jul 13 2020)



NPTEL

Applied Multivariate Statistical Modeling

12 Weeks (Starts: Mon Jan 24 2022)



NPTEL

Basic Calculus - 1

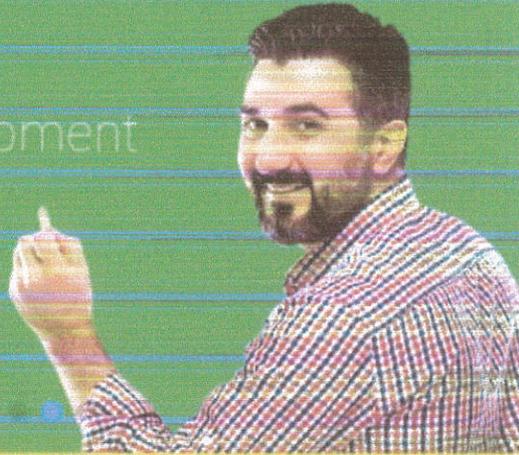
12 Weeks (Starts: Mon Jan 24 2022)

10:29 AM

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Course Catalog

Search from catalog with the



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Overall Impression Of Swayam App

The success of SWAYAM is depends on the quality of courses it offer to the public and the relevance and the success of the candidates who are all taking this courses. Only the time will say the impact and use of these courses. Every Educational institute should have separate arrangement for the students who want to learn from these courses. The recent development in telecommunication sector the access to internet has become very much cheap so the learner can take benefit of this development. The government is trying to impact quality education in the nation, SWAYAM is one of the step towards this. The time will tell the national dream of the quality education to the mass through SWAYAM will be achieved or not.

नवसह्याद्री चॅरिटेबल ट्रस्टचे

अध्यापक महाविद्यालय (बी. एड.)

चाकण, ता. खेड, जि. पुणे - ४१० ५०१

बी.एड. प्रथम वर्ष २०२१ - २०२२



NAAC Accredited Grade 'B'

Course -109

TEACHING COMPETENCY -II

अध्यापन क्षमता -२

TECHNOLOGY BASED TEACHING, TEAM

TEACHING & MODELS OF TEACHING LESSON & OBSERVATION NOTEBOOK

तंत्रज्ञानावर आधारीत पाठ, सांघिक अध्यापक पाठ व प्रतिमानावरील
पाठ नियोजन व निरीक्षण नोंद वही

छात्राध्यापकाचे नाव Ranjana Mukesh Singh

हजेरी क्रमांक ४५

अध्यापन पध्दती १ Science

२ Maths

परीक्षा बैठक क्रमांक ४५

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Index (अनुक्रमणिका)

Technology Based Teaching Lessons (तंत्रज्ञानावर आधारित पाठ)

Sr.NO. अ.क्र.	Unit & Sub-Unit घटक व उपघटक	Subject विषय	Date दिनांक	Std इयत्ता	Obtained Marks प्राप्त गुण (१०० पैकी)	Observer's Sign. निरीक्षकाची स
1	Adaptation in plant	Science		7th	70	
2	Triangles and its type	Maths		8th	72	
Obtained Marks (Out of 200) प्राप्त गुण (२०० पैकी)		142	Consolidated Marks (out of 50) रुपांतरित गुण (५० पैकी)		36	

Team Teaching Lessons (सांघिक अध्यापन पाठ)

Sr.NO. अ.क्र.	Unit & Sub-Unit घटक व उपघटक	Subject विषय	Date दिनांक	Std इयत्ता	Obtained Marks प्राप्त गुण (१०० पैकी)	Observer's Sign. निरीक्षकाची स
1	Living cycle of stars	Science		8th	75	
2	Statics	Maths		9th	78	
Obtained Marks (Out of 200) प्राप्त गुण (२०० पैकी)		153	Consolidated Marks (out of 50) रुपांतरित गुण (५० पैकी)		38	

Models of Teaching Lessons (प्रतिमानावरील पाठ)

Sr.NO. अ.क्र.	Unit & Sub-Unit घटक व उपघटक	Subject विषय	Date दिनांक	Std इयत्ता	Obtained Marks प्राप्त गुण (१०० पैकी)	Observer's Sign. निरीक्षकाची स
1	Path of Light	Science		8th	76	
2	Simple Interest	Maths		7th	79	
Obtained Marks (Out of 200) प्राप्त गुण (२०० पैकी)		155	Consolidated Marks (out of 50) रुपांतरित गुण (५० पैकी)		39	

Consolidated Marks (रुपांतरित गुण)

Technology Based Teaching Lessons (Out of 50) तंत्रज्ञानावर आधारित पाठ (५० पैकी)	Team Teaching Lessons (Out of 50) सांघिक अध्यापन पाठ (५० पैकी)	Models of Teaching Lessons (Out of 50) प्रतिमानावरील पाठ (५० पैकी)	Total Marks (Out of 150) प्रति गुण (१५० पैकी)	Observer's Sign. प्राप्त गुण (५० पैकी)
36	38	39	113	3+6 38

Date : / /

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Sign. Of Prof. In-charge
गट मार्गदर्शकाची स्वाक्षरी

नवसहाद्री चॅरीटेबल ट्रस्टचे, अध्यापक महाविद्यालय (बी. एड.) चाकण

Technology Based Teaching Lesson (तंत्रज्ञानावर आधारित पाठ) शै. वर्ष २०२१ -२०२२

Student's Name :- Ranjana Mukesh Singh

Roll No. :- 85

विद्यार्थ्याचे नाव :-

हजेरी क्रमांक :-

Unit :- Adaptation

Sub-Unit :- Adaptation

घटक :-

उपघटक :-

Date :- 20/4/22

Time :- 30 mins

Div :-

दिनांक :-

वेळ :-

इयत्ता :-

Required Previous Knowledge :- Students know about different types of plants.

अपेक्षित पूर्वज्ञान :-

Values :- Neatness

मूल्ये :-

Core Elements :- Protection of Environment

गमाभूत घटक :-

Life Skills :- Critical Thinking

जीवन कौशल्ये :-

Teaching Aids :- PPT on ADAPTATION In Plants

शैक्षणिक साहित्य :-

Group In-charge Prof. :- Prof. Kechgunde Sir

गट मार्गदर्शक प्राध्यापक :-

फलक लेखन (Black Board Writing)

Std - VII

Sub - Science

Date - 20/4/22

Div - A

Unit - ADAPTATION

Sub unit - Adaptation in Plants

Adaptation -

Adaptation is a physical or behavioural characteristics of an organism that helps an organism to survive better in the surrounding environment.

Types of Adaptation

- 1) Structural adaptation
- 2) Behavioural Adaptation
- 3) Physiological Adaptation

Date : 20/4/22

दिनांक

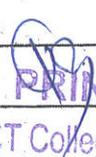
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Sign. Of Guide Professor
मार्गदर्शक प्राध्यापकांची स्वाक्षरी

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Chatur, Tal Khed, Dist Pune

Steps of Lesson पाठाच्या पायऱ्या	Content आशय/पाठ्यमुद्दे	Objectives & Specifications उद्दिष्टे व स्पष्टीकरणे
INTRODUCTION:-	<p>Good morning all. childrens will you tell me why certain plants are found in one particular area but not in another. See this pictures and tell me which plant we observe in our surrounding (i.e in our state)</p>	<p>KNOWLEDGE :- Student tell us about adaptation in plants.</p>
STATEMENT OF AIM	<p>So today we are going to learn about Adaptation in plants</p>	<p>UNDERSTANDING Student explain about the differer types of adaptation in plants</p>
EXPLANATION	<p>Adaptation is the evolutionary process where an organism becomes better suited to its habitat. This process takes place over many generation.</p>	<p>APPLICATION Student explains example of adaptation.</p>
	<p>Different Adaptation found in different region</p>	<p>SKILLS :- Students write not on adaptation in plants.</p>

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Teacher's activity शिक्षक कृती	Student's activity विद्यार्थी कृती	Teaching aids शैक्षणिक साहित्य
Teacher shows some pictures and ask some questions.	Students identifies pictures & tell answers	
Teacher state the aim and write on board.	Students write the topic note in notebook.	
Teacher explain defination of Adeptation through slide	student observe slide.	
Teacher explain about different region and different adaptation found in particular region	student observe slide	<p style="text-align: center;">  PRINCIPAL NSCT College of Education Chakan, Tal. Khed, Dist. Pune </p>

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Steps of Lesson पाठ्याच्या पायऱ्या	Content आशय / पाठ्यमुद्दे	Objectives & Specifications उद्दिष्टे व स्पष्टीकरणे
	Adaptation in plants of snowy regions :- Plants in snowy region have needle like leaves. Its conserve water by decreasing the surface area of the leaves.	INTEREST Teacher help student to develop of an interest in science through different attractive pictures.
	Adaptation in Desert plants Desert plants have developed three types 1) Succulence 2) Drought tolerance 3) Drought avoidance	1) Student seek a scientific method.
	Adaptation in Saprophytes Most of the saprophytes donot directly digest dead matter. Instead they parasitic fungi that digest dead matter	2) Students can give many more examples on an adaptation seen in plant.
	Adaptation in Aquatic Plants :- Aquatic plant require special adaptation for living submerged in water or at the water surface.	

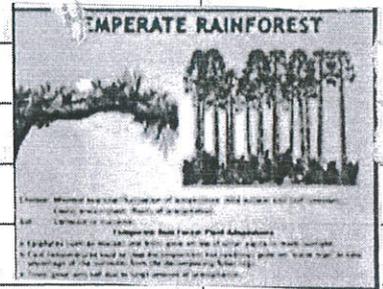
Teacher's activity
शिक्षक कृती

Student's activity
विद्यार्थी कृती

Teaching aids
शैक्षणिक साहित्य

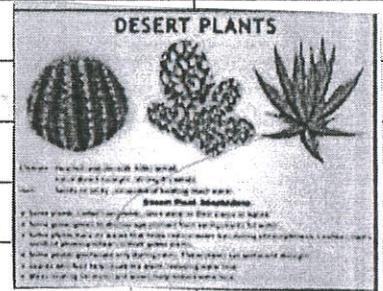
Teacher explain about
Adaptation in snowy
regions.

Student
observe
slide



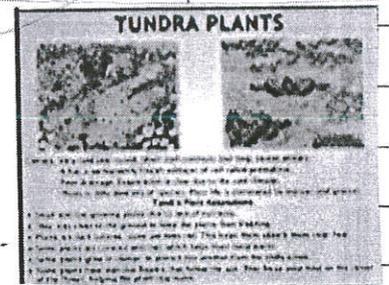
Teacher explain about
Adaptation in desert
plant.

Student
observe
slide



Teacher explain about
Adaptation in Saprophyte
plant.

Student
observe
slide



Teacher explain about
Adaptation in aquatic
plant.

Student
observe
slide.



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Steps of Lesson पाठ्याच्या पायऱ्या	Content आशय / पाठ्यमुद्दे	Objectives & Specifications उद्दिष्टे व स्पष्टीकरणे
	Adaptation in Grassland plants	
	Plants have many adaptation like deep, spreading root system, long narrow leaves. some grows close to the ground.	
	Adaptation of food in plants.	
	To obtain food, some plant i.e. Autotrophs make their own food by photosynthesis and some depends on microbes.	
	Adaptation of plants in forest region Most big trees here have thick barks to protect them	
RECAPTULATION	Write different types of adaptation and differentiate between different mode of adaptation.	
HOME WORK	Write a short note on Adaptation in planet.	

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LESSON EVALUATION SEHEME (पाठ मूल्यमापन योजना)

Rating Scale 1) Unsatisfactory 2) Average 3) Satisfactory 4) Good 5) Excellent
पदनिश्चयन श्रेणी - १) असमाधानकारक २) सरासरी ३) समाधानकारक ४) चांगला ५) उत्कृष्ट

No. अ.क्र.	Steps पायऱ्या	Criteria निकष	1	2	3	4	5
1	Lesson Note पाठ टाचण	Neat, Correct & Complete नीटनेटके, अचूक आणि परिपूर्ण				/	
2	Introduction प्रस्तावणा	Relevant & stimulating सुसंगत आणि उत्साहवर्धक				/	
3		Revival of previous knowledge & linking with the topic पूर्वज्ञान जागृती व पाठ्यघटकाशी योग्य सांगड				/	
4		Statement of Aim & Title writing हेतुकथन आणि शीर्षकलेखन				/	
5	Presentation/ Explanation सादरीकरण/ विषय प्रतिपादन/ स्पष्टीकरण	Clarity & Fluncky in Narration / Illustration कथन व स्पष्टीकरणातील अचूकता व ओघवतेपणा				/	
6		Question - Clear, concise & grammatically प्रश्न, स्पष्ट, संक्षिप्त आणि व्याकरण दृष्ट्या अचूक				/	
7		Logical & thought provoking questions ताकिक व विचारप्रवर्तक प्रश्न				/	
8		Mastery over the content आशयावरील प्रभुत्व				/	
9		Selection of IT tools माहिती संप्रेषण साधनांची निवड				/	
10		Quality of presentation सादरीकरणाची गुणवत्ता				/	
11		Co-ordination between tools & teaching साधने व अध्यापन यांतील समन्वय				/	
12		Ease & confidence in using technology तंत्रज्ञानाच्या वापरातील सुकरता व आत्मविश्वास				/	
13	Judicious use of technology तंत्रज्ञानाचा चतुराईने वापर				/		
14	Recapitulation संकलन	As per objectives उद्दिष्ट निहाय				/	
15		Arrangement of plan II नियोजन २ ची तयारी				/	
16	Application उपयोजन	Recapitulation as per the objective उद्दिष्टानुसार संकलन				/	
17	Home Work स्वाध्याय	Application-appropriate/creative योग्य/सृजनात्मक उपयोजन				/	
18		Home work-creative/appropriate योग्य/सृजनात्मक स्वाध्याय				/	
19		Classroom management & Time Management वर्ग व्यवस्थापन व वेळेचे व्यवस्थापन				/	
20		Overall impression एकंदरीत प्रभाव				/	

(Qualitativ feedback) गुणात्मक शेरे

२०/११/२०१७ मधील पाठ्यक्रमातील सादरीकरण कोणी सुकरता वाचण्यासाठी साधारण पाठ, लक्षात घेऊन
प्रकारात वापर, सृजनात्मकता व अचूकता

Date: / /

Obtained Marks - 70/100

Observer's Sign.
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