

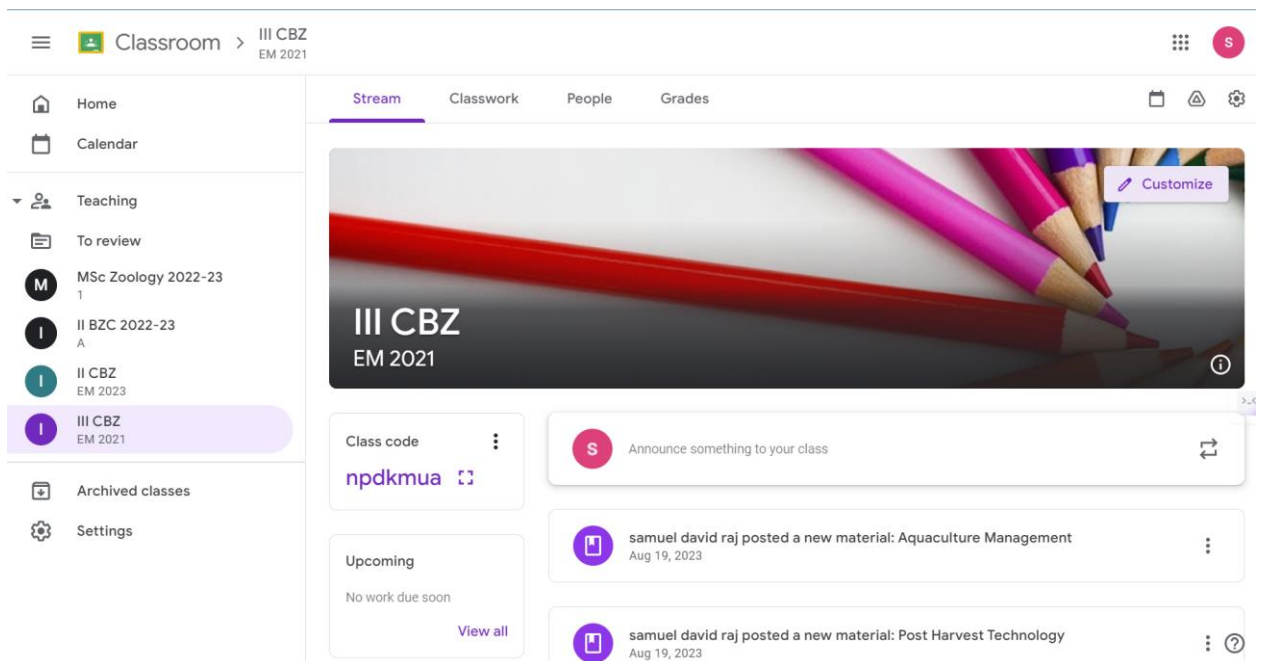
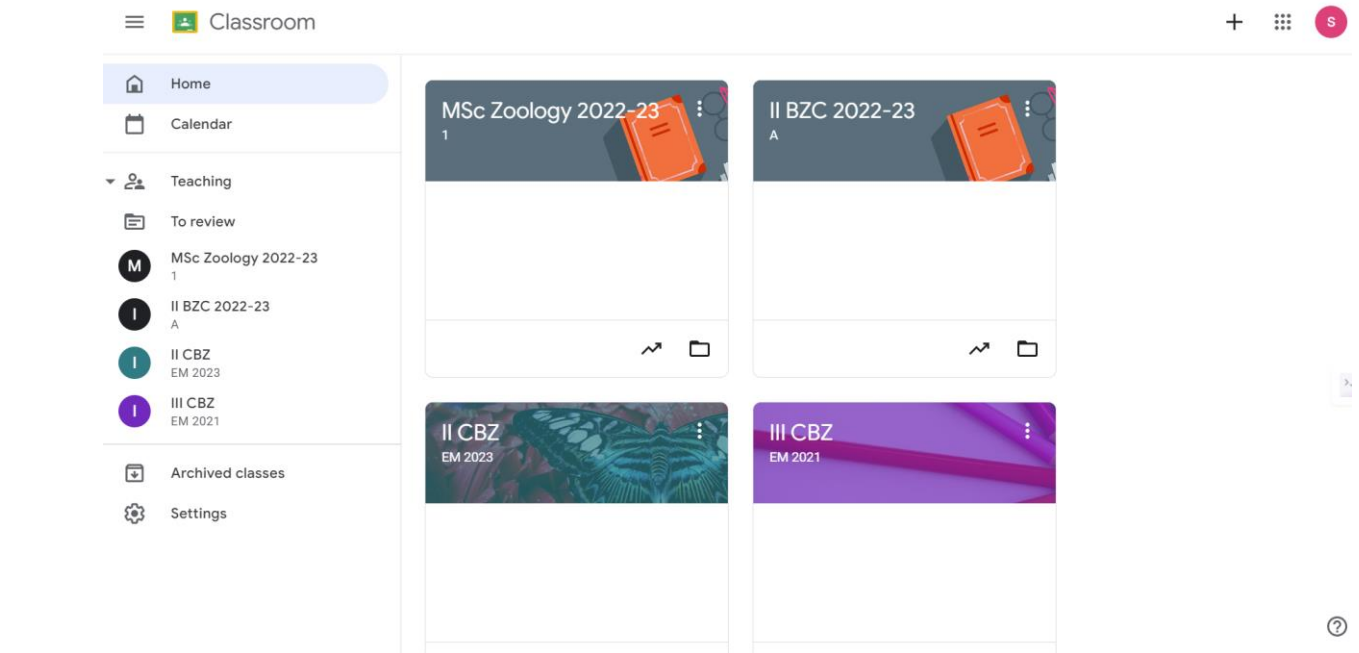
DEPARTMENT OF ZOOLOGY

Name of the Lecturer: Dr. T. Samuel David Raj

CRITERION – 2 :: ICT TOOLS

1. Google Class Room

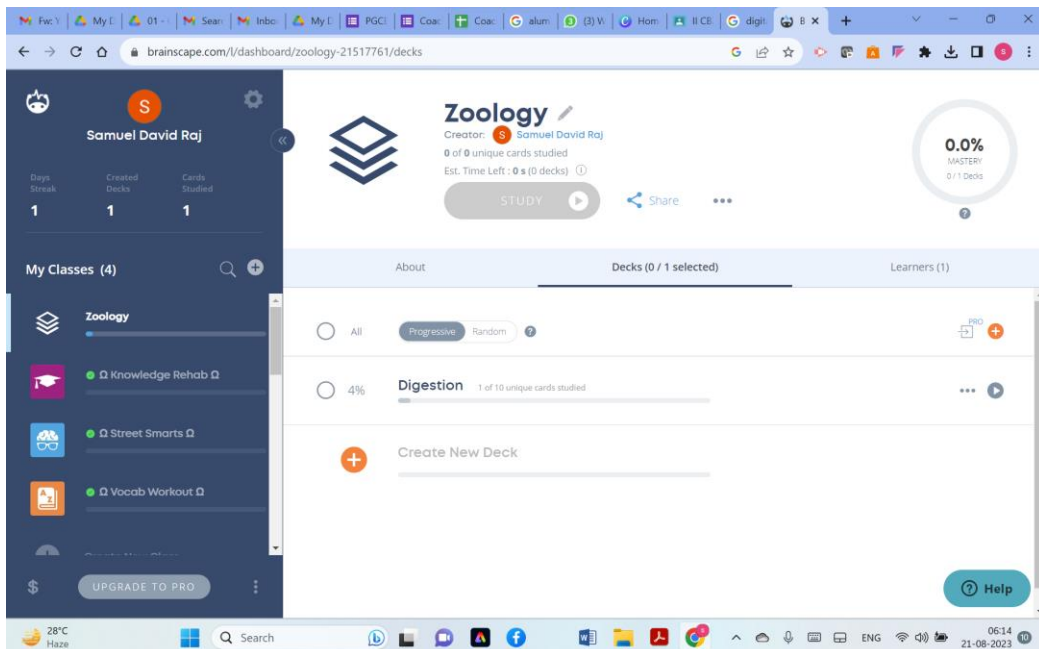
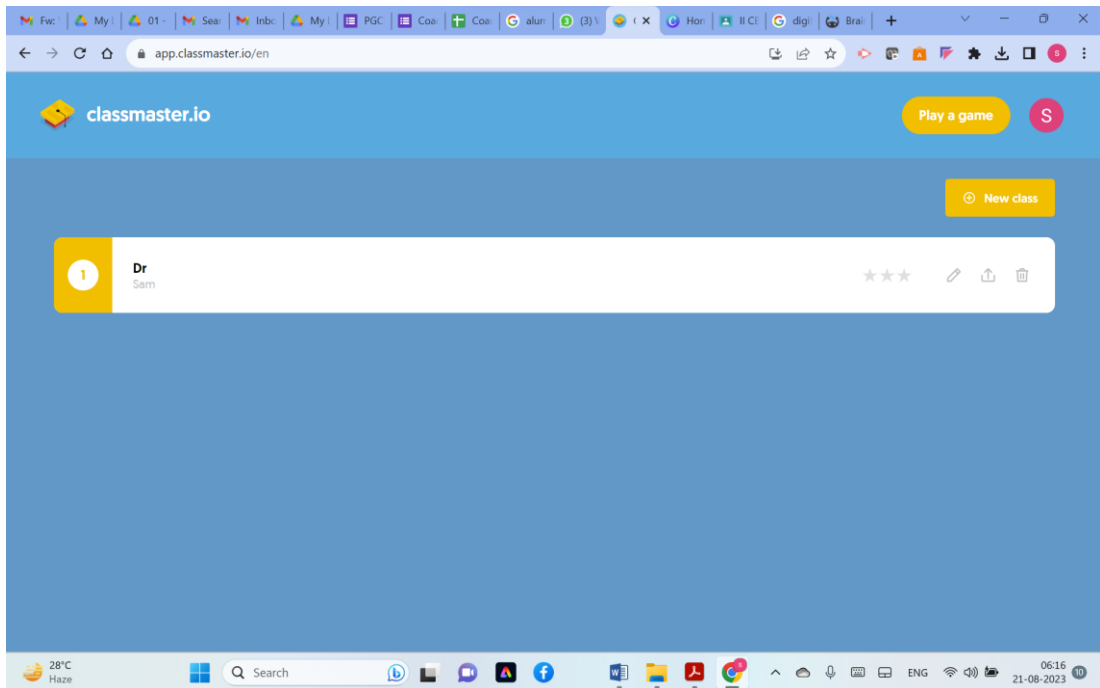
Class Codes:- **yji4eo7, npdkmua**



2. Online Flash Cards

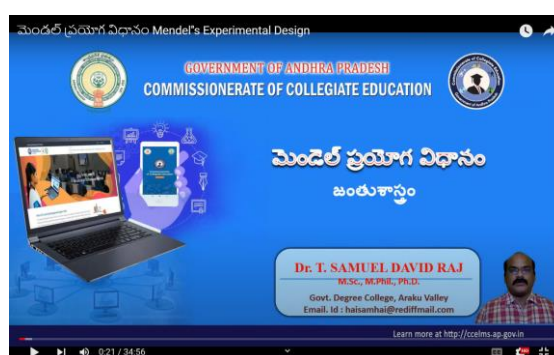
https://app.classmaster.io/en/class/share/gIQKivqeeNw_Y_GcInCO9

<https://www.brainscape.com/l/dashboard/zoology-21517761/decks/13842873/cards/449470203/preview>



3. CCE LMS – 4 Quadrant – E-Content

S. No.	Topic	Google Drive Link
1	Introduction to Genetics - TM	Uploaded to APCCE LMS Website https://youtu.be/eT40fAQTjwo
2	Mendel's Experimental Design - TM	Uploaded to APCCE LMS Website https://youtu.be/8VJ1WJjne9E
3	Mendel's Laws - TM	Uploaded to APCCE LMS Website https://youtu.be/609ZUKPI-XE
4	Back Cross & Test Cross - TM	Uploaded to APCCE LMS Website https://youtu.be/rVqIcoqokOU
5	Incomplete Dominance & Codominance-TM	https://drive.google.com/file/d/1y0Di8dlqVnTR38ouoEffe0_zXPQtfiMz/view?usp=sharing
6	Blue Revolution	https://drive.google.com/file/d/1pzO1_Fe9_uyzPGOL6z2yeso8t9bZZZri/view?usp=sharing
7	Operation Flood	https://drive.google.com/file/d/1iDj_oPnkB7qeKTNxxcVC9lvSWVTm2_TUj/view?usp=sharing
8	Definition and Forms of Milk	https://drive.google.com/file/d/1P6FLTdi_aLjt0sKLCYdvzsNJ14RoNRym/view?usp=sharing
9	Methods of Collection of Milk	https://drive.google.com/file/d/1mwc45yvAhaoaHgTCTmm1dtqwO8YlfBhv/view?usp=drive_link
10	Storage, Packaging and Labelling of Milk	https://drive.google.com/file/d/1AO1r7fXeOU7Myi_jQ3Z6NyZAgamG_HUM/view?usp=sharing
11	Nutritive Value and Per Capita Consumption of Milk	https://drive.google.com/file/d/1WwmSfWSZGo6sOUnpg7Jxfuk1gRQcu-4/view?usp=sharing



Press [Esc] to exit full screen

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పూర్వ సంకరణం మరియు శోధన సంకరణం
జంటిశాస్త్రం

Dr. T. Samuel David Raj
M.Sc., M.Phil., Ph.D.
Govt. Degree College, Araku Valley
Email. Id : haisamhai@rediffmail.com

Learn more at <http://ccelms.ap.gov.in>

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జన్యశాస్త్రం - చరిత్ర మరియు
జంటిశాస్త్రం

Dr. T. Samuel David Raj
M.Sc., M.Phil., Ph.D.
Government Degree College, Araku Valley
Email. Id : vaniprupa@gmail.com

Learn more at <http://ccelms.ap.gov.in>

అసంపూర్ణ & సహ బహిర్గతత్వం Incomplete Dominance & Codominance

Press [Esc] to exit full screen

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అసంపూర్ణ బహిర్గతత్వం మరియు
సహ బహిర్గతత్వం

జంటిశాస్త్రం

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Blue Revolution
Scope of Aquaculture at Global Level, National Level (India) & State Level

AQUACULTURE

Dr. T. Samuel David Raj
M.Sc., M.Phil., Ph.D.
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Email. Id : vaniprupa@gmail.com

Learn more at <http://ccelms.ap.gov.in>

0:04 / 29:29



Dr.V.S.KRISHNA GOVT. DEGREE COLLEGE

(AUTONOMOUS)

NODAL RESOURCE CENTRE & AU CENTRE FOR RESEARCH

Maddilapalem, Visakhapatnam – 530013, Andhra Pradesh.

0891-2553262, <https://www.drsvskrishnagdc.edu.in>



ICT and LMS Classes

Name of the Department: **ZOOLOGY**

Year: **2018-19**

S.No.	Class	Name of the lecturer	Title of the Lecture	ICT tool/LMS Used
1	III CBZ	DR. P.R.VANI	Hormonal Control of Reproduction in mammals	Virtual classroom: Participating colleges are GDC Bhimili, GDC Rajolu
2	IICBZ, & II MBBTC		Virtual classroom: Participating colleges are GDC Narsipatnam, GDC (W) Visakhapatnam	
3	IICBZ, & II MBBTC		Virtual classroom: Participating colleges are GDC Narsipatnam, GDC (W) Visakhapatnam	
5	III CBZ		Endocrine Glands	PPT
6	III CBZ		Embryology	PPT
5	III CBZ		Ecology	PPT



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Photo Gallery

ICT and LMS Classes (2018-19)

Virtual classes taken

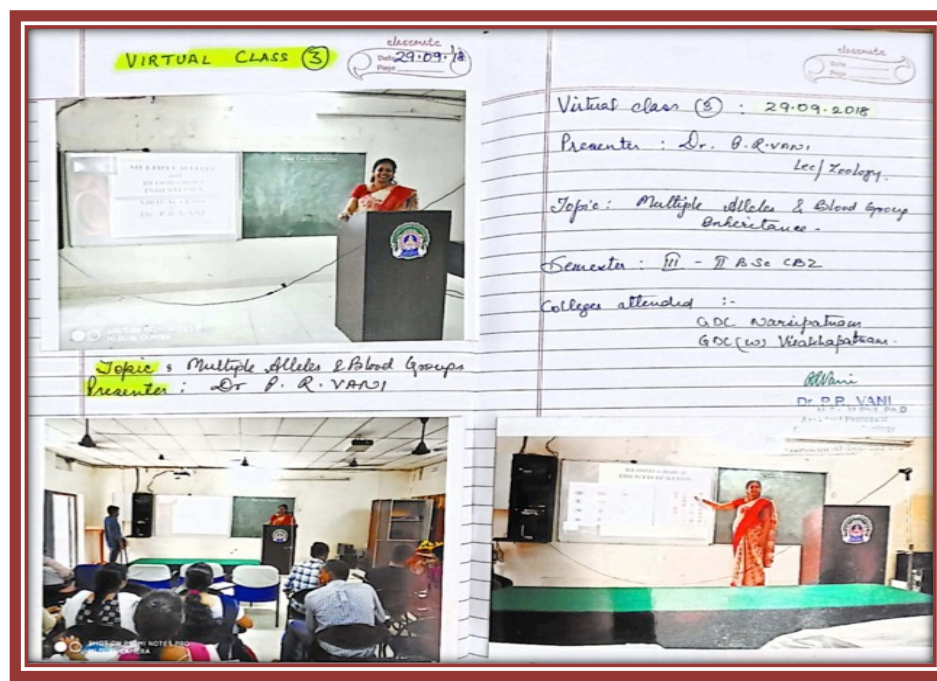
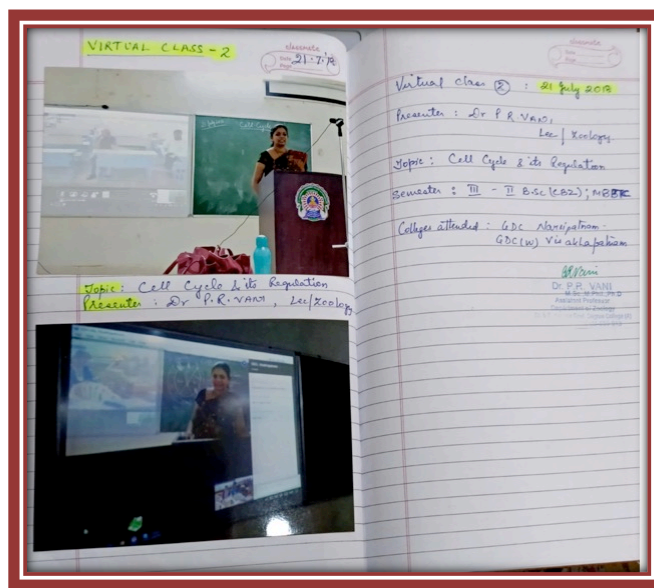
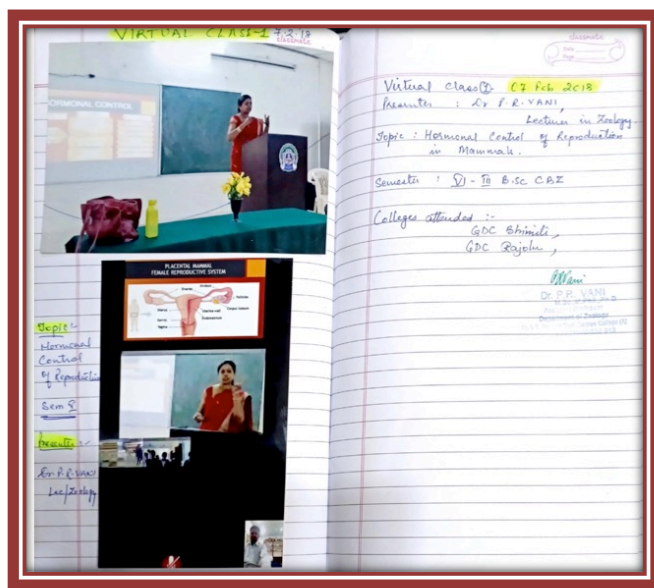


Photo Gallery : ICT and LMS Classes (2019-20)

ICT BASED CLASSROOM TEACHING USING ONLINE CONTENT & PPTS





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0891-2553262, <https://www.drsvskrishnagdc.edu.in>



ICT and LMS Classes

Name of the Department: **ZOOLOGY**

Year: **2019 -2020**

S.No.	Class	Name of the lecturer	Title of the Lecture	ICT tool/LMS Used
1	III CBZ	Sars Cov – 2 & COVID	Cardiac cycle	Virtual classroom: Participating colleges are GDC Yellamanchili, GDC Srikakulum (M), GDC(W), Visakhapatnam
2	III CBZ		Sanitation & Hygeine	Smart board, You tube videos
3	III CBZ		Hormones	PPT
4	II CBZ EM		Sars Cov – 2 & COVID	PPT, G-Meet



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Photo Gallery

ICT and LMS Classes (2019-20)

Virtual classes taken

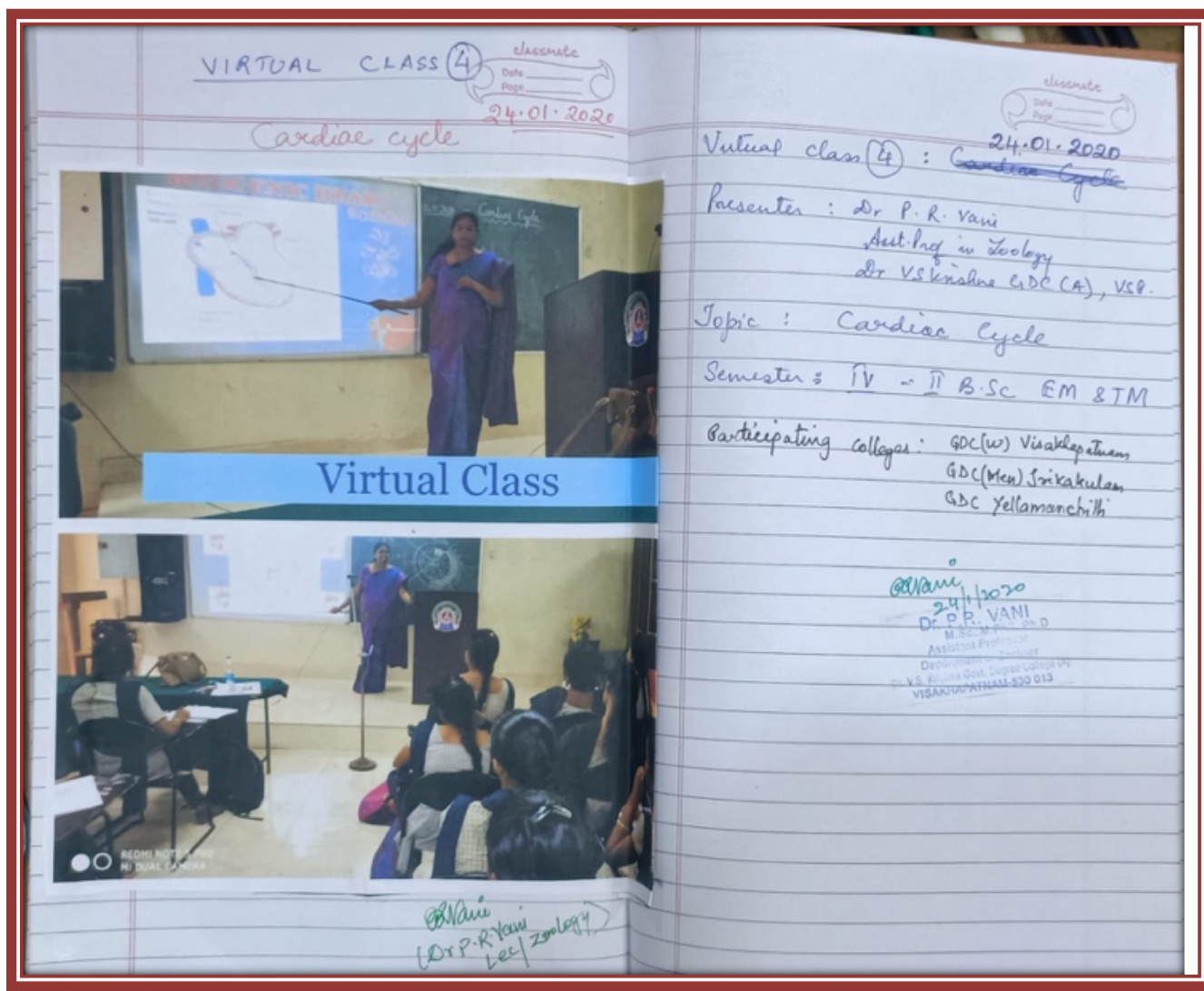
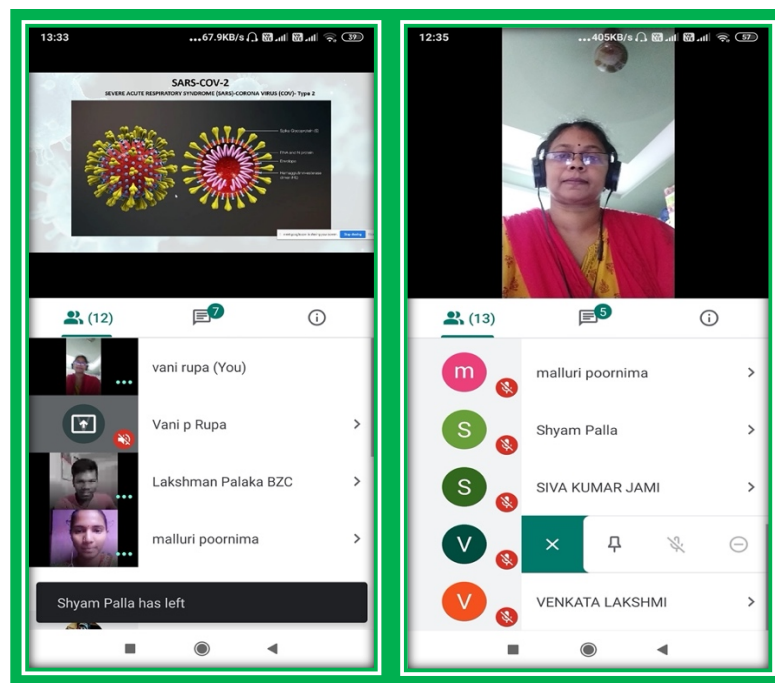


Photo Gallery : ICT and LMS Classes (2019-20)

**Innovation in Teaching :
Teaching through Youtube Videos**



PPT on Sars Cov – 2 & COVID



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ICT and LMS Classes

Name of the Department: **ZOOLOGY**

Year: **2020 - 2021**

S.No.	Class	Name of the lecturer	Title of the Lecture	ICT tool/LMS Used
1	III CBZ EM	DR. P.R.VANI	International Webinar Conducted On “Animal Ethics & Human Genomics	G-Meet
2	III CBZ EM		Prokaryotes	Zoom meet
3	III CBZ EM		Online classes during lockdown	Jitsi, G-meet, Whatsapp conference video call, Zoom, Webex Meet
4	IIICBZ EM		Embyology	Use of Jam Board during lockdown period
5	11 CBZ EM		Test Cross & Back Cross	PPT, Youtube Videos
6	II CBZ EM		Mendel’s Laws	PPT, Youtube Videos



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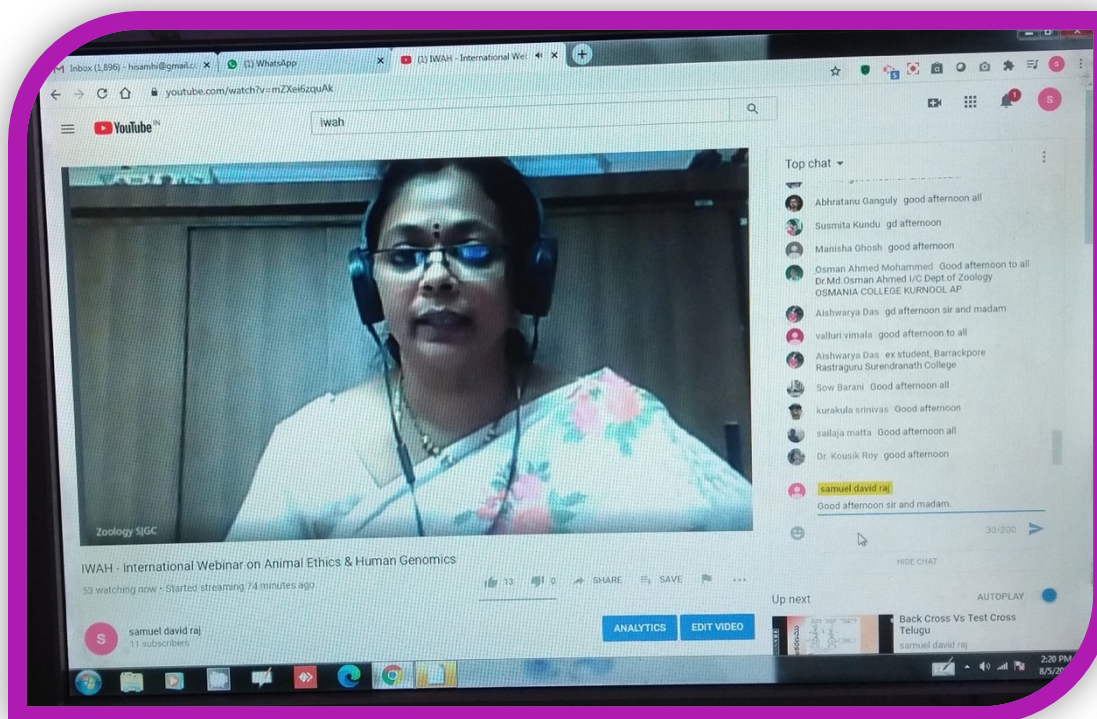
Maddilapalem, Visakhapatnam – 530013, Andhra Pradesh.

0891-2553262, <https://www.drsvkrishnagdc.edu.in>



Photo Gallery

ICT and LMS Classes (2020 -21)



INTERNATIONAL WEBINAR CONDUCTED ON “ANIMAL ETHICS & HUMAN GENOMICS

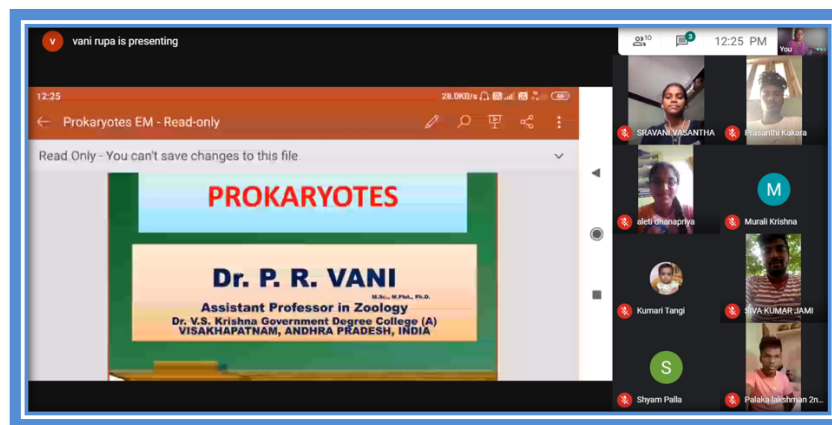


Photo Gallery: ICT and LMS Classes (2020 -21)

USE OF JAM BOARD DURING ONLINE CLASS

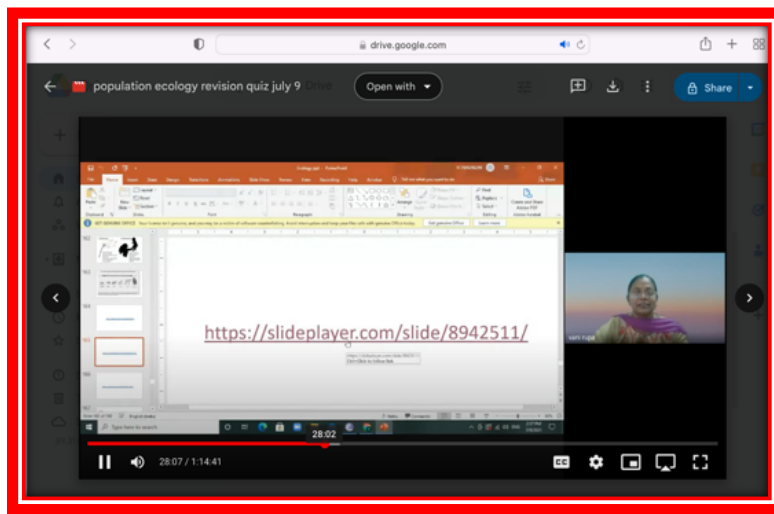
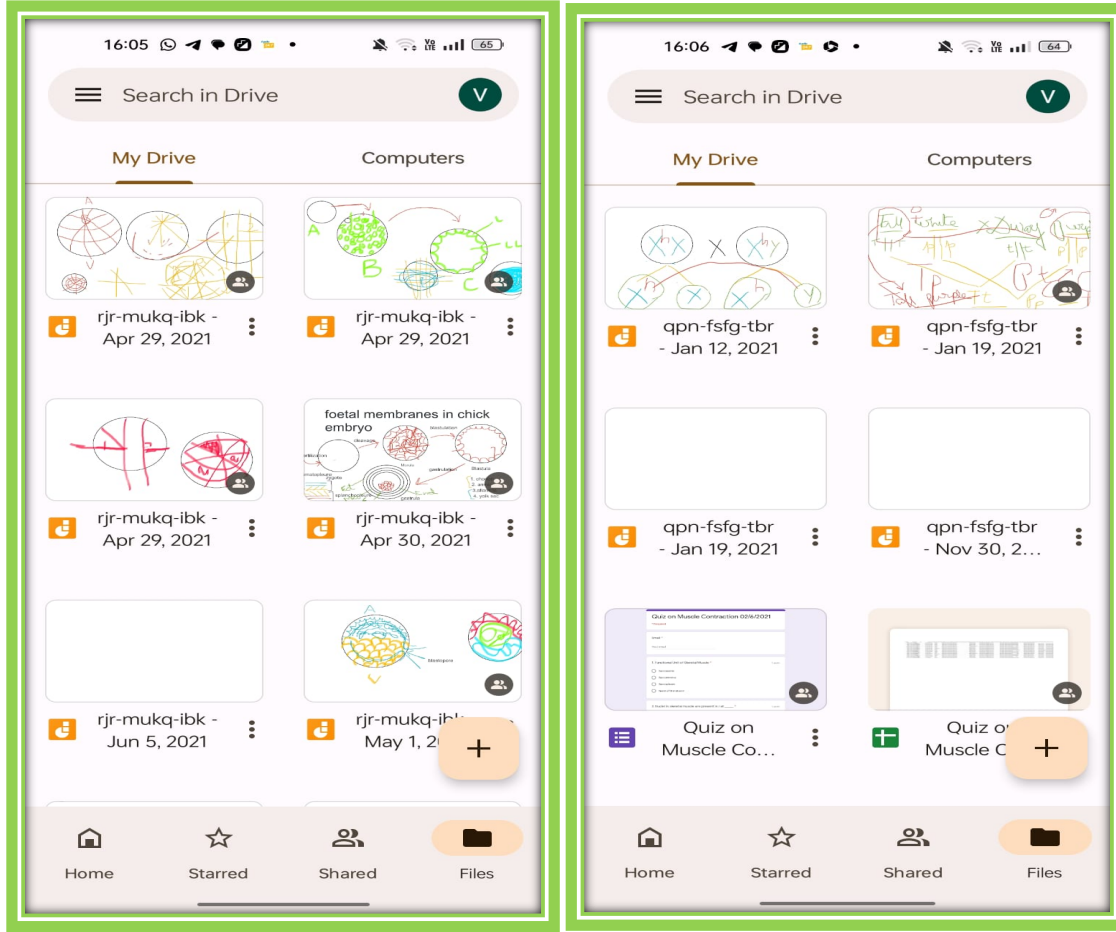
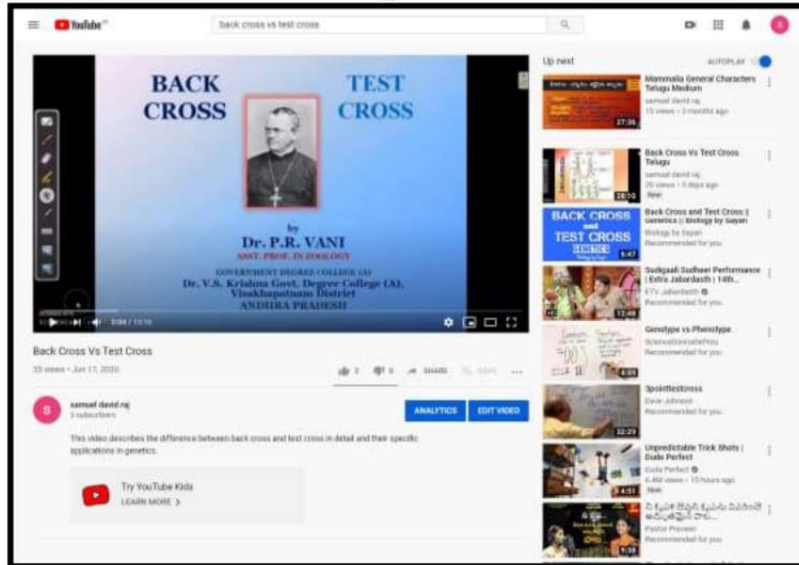


Photo Gallery
ICT and LMS Classes (2020-21)

Youtube Lessons – Prepared for Online Teaching





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0891-2553262, <https://www.drsvkrishnagdc.edu.in>



ICT and LMS Classes

Name of the Department: **ZOOLOGY**

Year: **2021- 22**

S.No.	Class	Name of the lecturer	Title of the Lecture	ICT tool/LMS Used
1	III CBZ TM	DR. P.R.VANI	Zoology Cluster Projects : Virtual visit to Vaisakhi Shrimp Hatchery	Videos, PPT, G-Meet
2	III CBZ TM		Virtual visit to Naga Hanuman Shrimp processing Industry	Videos, PPT, G-Meet
3	III CBZ TM		Online Viva of Cluster Project Practical Examination 2021	G-Meet
4	III CBZ EM		Immunology -ELISA	PPT
5	III CBZ EM		Blood Grouping	PPT
6	III CBZ EM		Immunoelctrophoresis	PPT
7	III CBZ EM		Electrophoresis	PPT
8	III CBZ EM		Genetic code	PPT
9	III CBZ EM		Student Seminars	PPT, G-Meet
10	III CBZ EM		DNA sequencing	PPT
11	II CBZ EM		Introduction to genetics	4-Quadrant LMS, PPT

12	II CBZ EM	DR.P.R.VANI	Mendel's experimental design	4-Quadrant LMS, PPT
13	II CBZ EM		Mendel's Laws	4-Quadrant LMS, PPT
14	II CBZ EM		Test cross & Back cross	4-Quadrant LMS, PPT
15	II CBZ EM		Incomplete Dominance & Co-Dominance	4-Quadrant LMS, PPT
16	II CBZ EM		Virus, Viroid & Mycoplasma	4-Quadrant LMS, PPT
17	II CBZ EM		Pond Management	4-Quadrant LMS, PPT
18	I CBZ EM		ONLINE STUDENT SEMINARS: Ecology & Physiology	PPT, G-MEET
19	I CBZ EM		Community Service Project	G-Meet, Google forms,
20	III CBZ EM		Monitoring student's progress during online classes	Google classroom
21	I CBZ EM		Student assessment : Online quiz	Google forms
22	I CBZ		Student assessment : Online mid exams	Google forms
23	III CBZ EM		Online Practical Classes: Estimation Of pH	PPT, Videos, G-Meet
24	III CBZ EM		Online Practical Classes: Estimation of Salinity of water	PPT, Videos, G-Meet
25	III CBZ EM		Online Practical Classes: Estimation of Dissolved water	PPT, Videos, G-Meet
26	III CBZ EM		Online Practical Classes: Estimation of Alkalinity	PPT, Videos, G-Meet
27	III CBZ EM		Online Practical Classes: Estimation of Urea & Ammonia	PPT, Videos, G-Meet
28	III CBZ EM		Online Submission & Corrections of Practical Records	Google classroom, G-Meet

**Photo Gallery:
ICT and LMS Classes (2021-22)**

VIRTUAL TOUR TO VAISAKHI SHRIMP HATCHERY DURING PANDEMIC

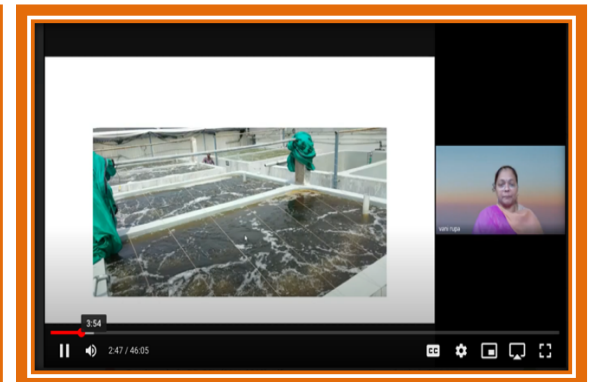
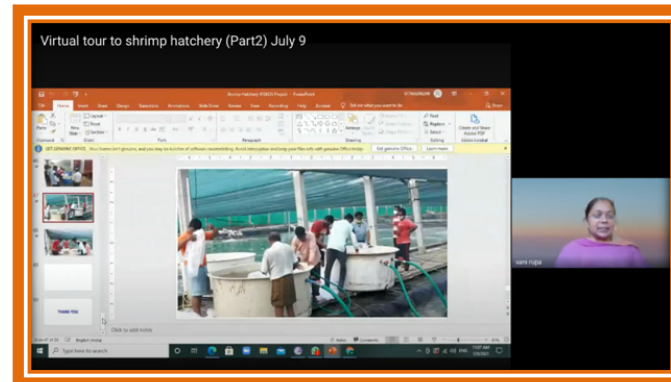
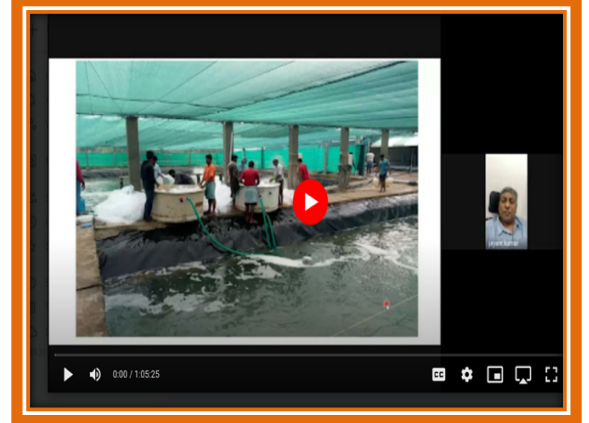
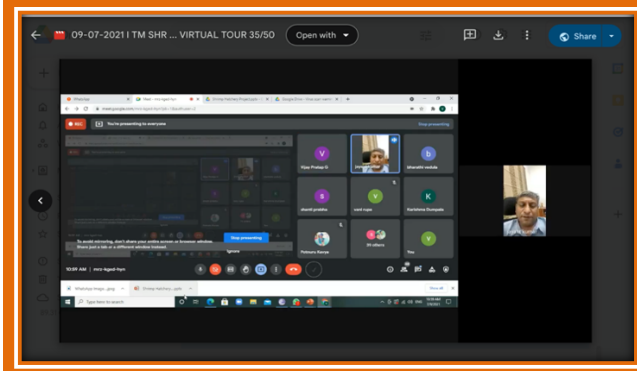
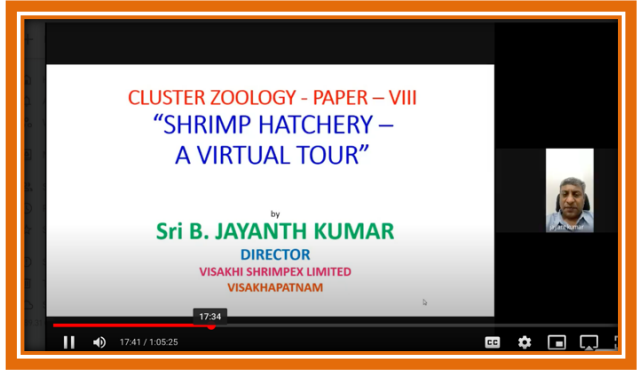
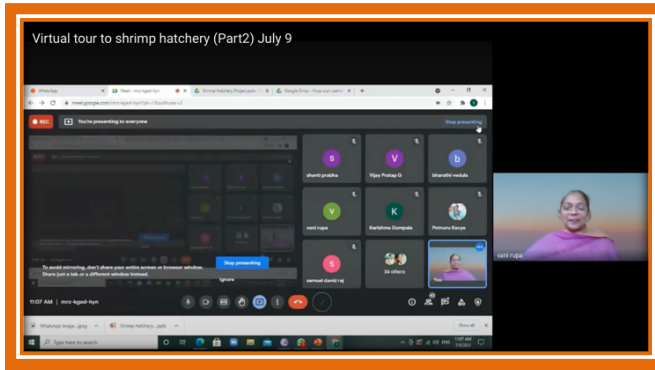


Photo Gallery
ICT and LMS Classes (2021-22)

VIRTUAL TOUR TO SHRIMP PROCESSING INDUSTRY-NAG HANUMAN

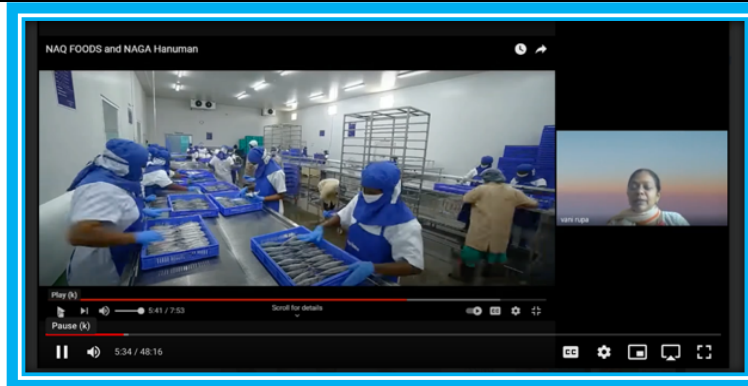
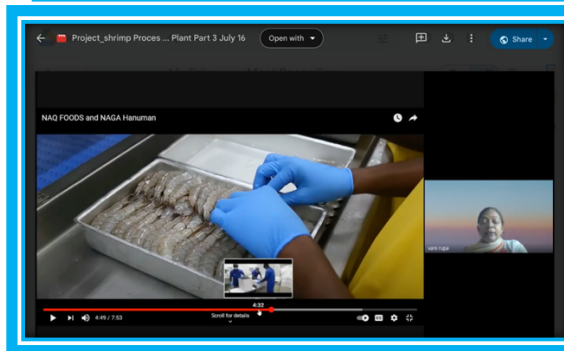
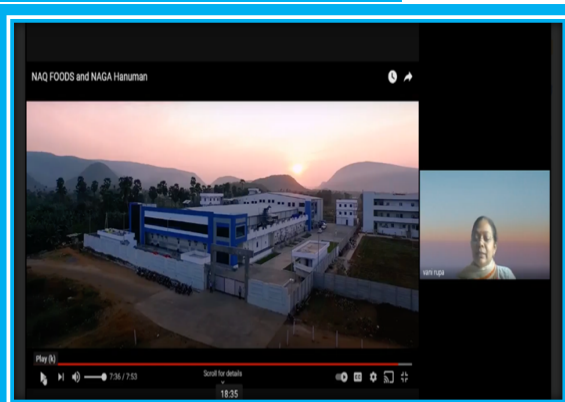
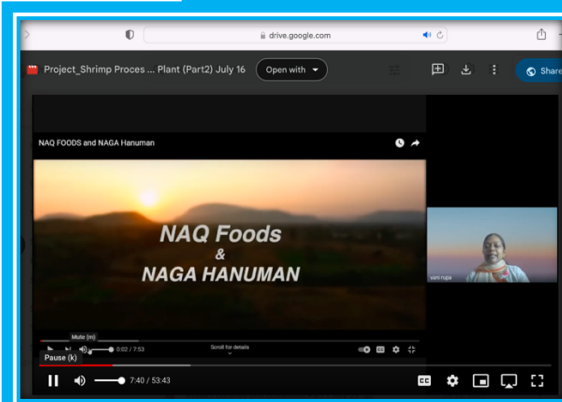
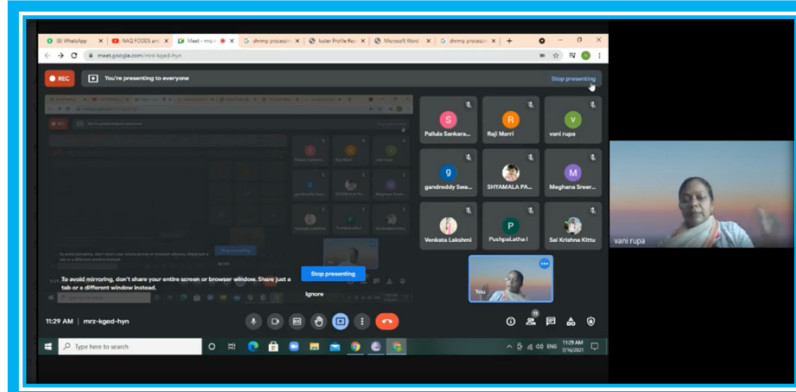


Photo Gallery
ICT and LMS Classes (2021-22)

GOOGLE DRIVE : MEET RECORDINGS OF VIRTUAL TOURS

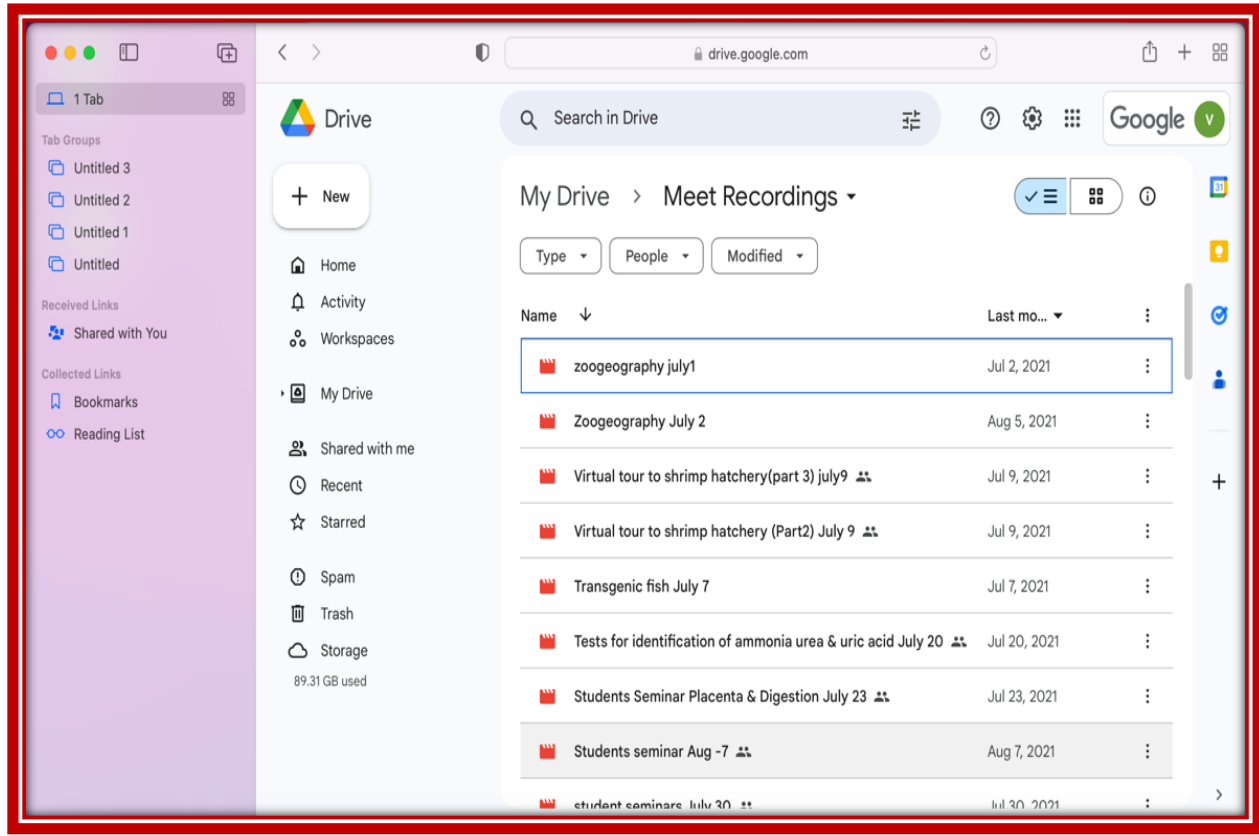


Photo Gallery

ICT and LMS Classes (2021-22)

PROJECT VIVA CONDUCTED ONLINE THROUGH G-MEET

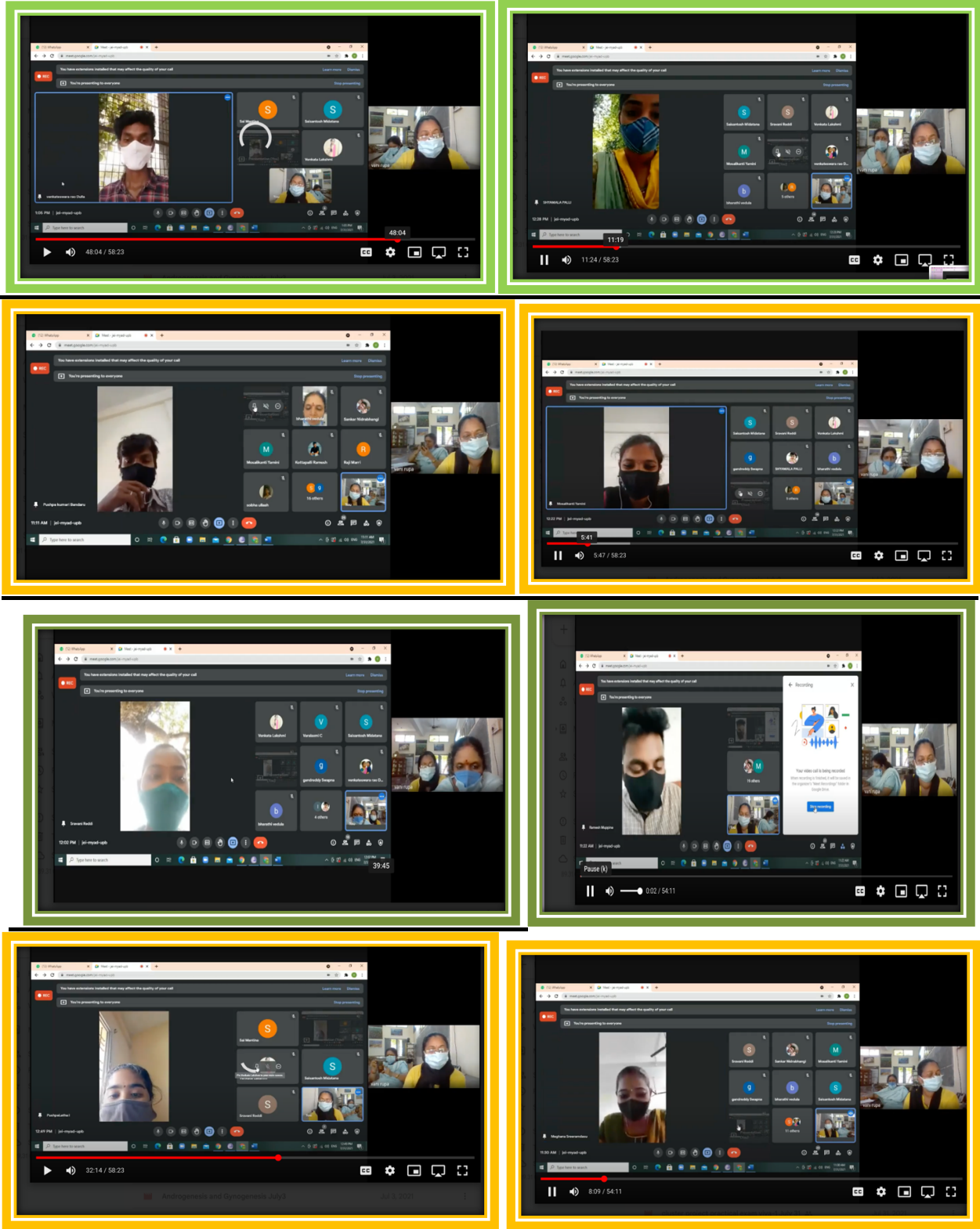
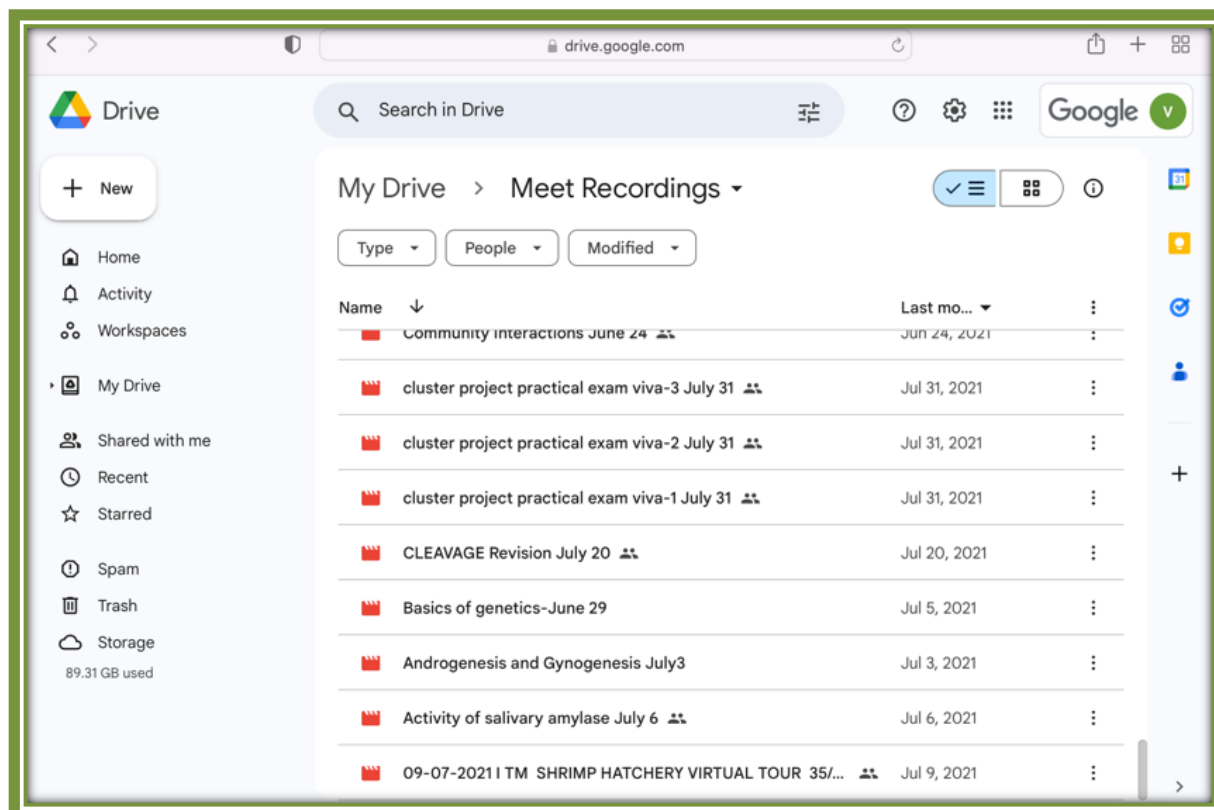
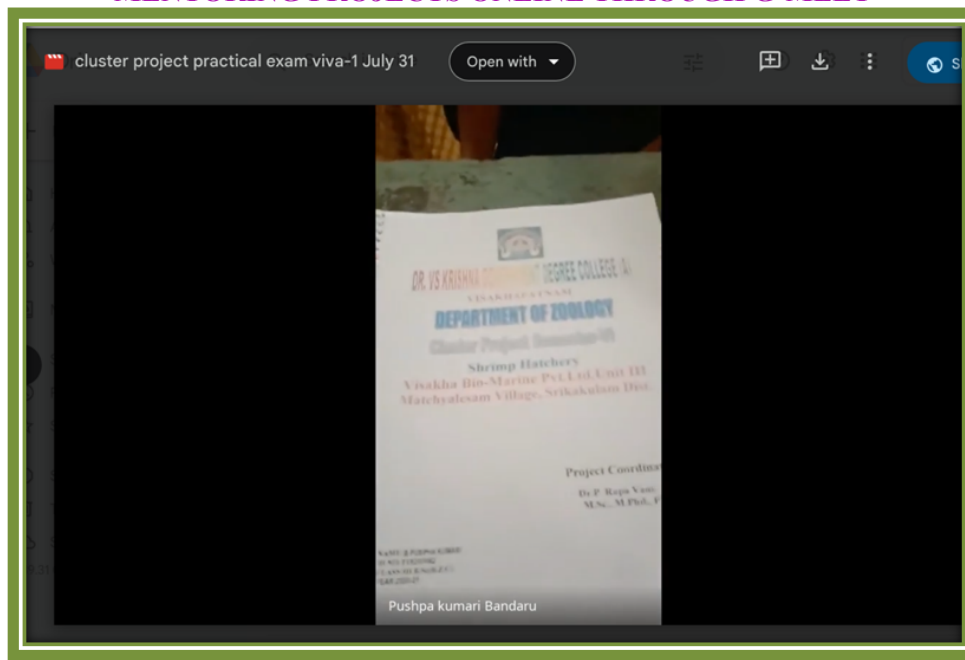


Photo Gallery
ICT and LMS Classes (2021-22)

MENTORING PROJECTS ONLINE THROUGH G-MEET



Google drive: Recordings Of Online Viva of Cluster Project Practical Examination 2021– For III B.Sc. CbZ TM

Photo Gallery : ICT and LMS Classes (2021-22)

RECORDINGS OF ONLINE TEACHING IN ICT MODE (2021-22)

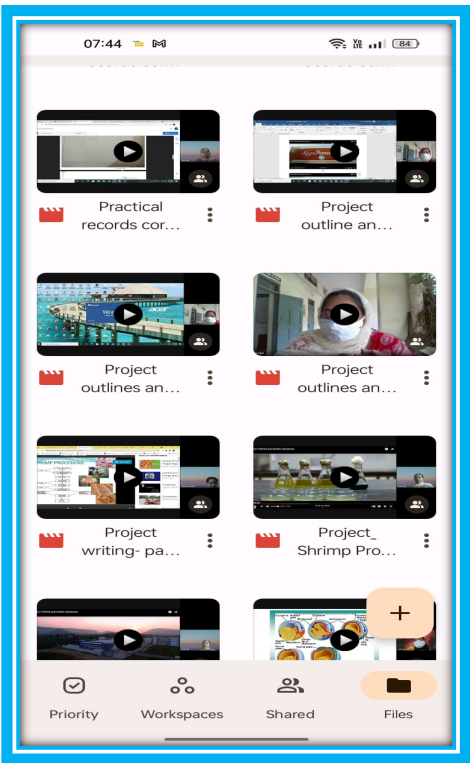
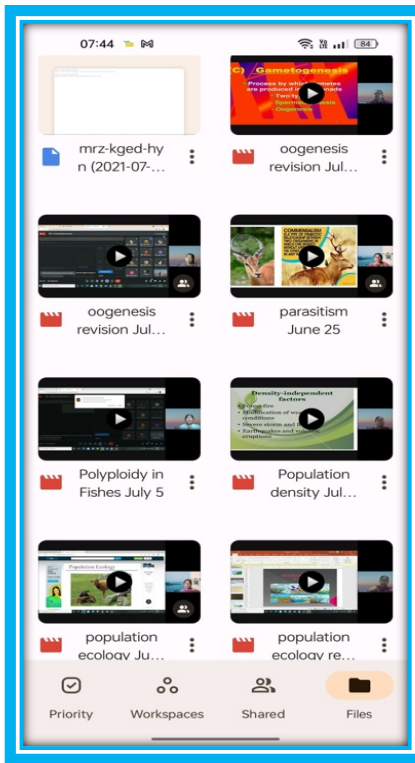
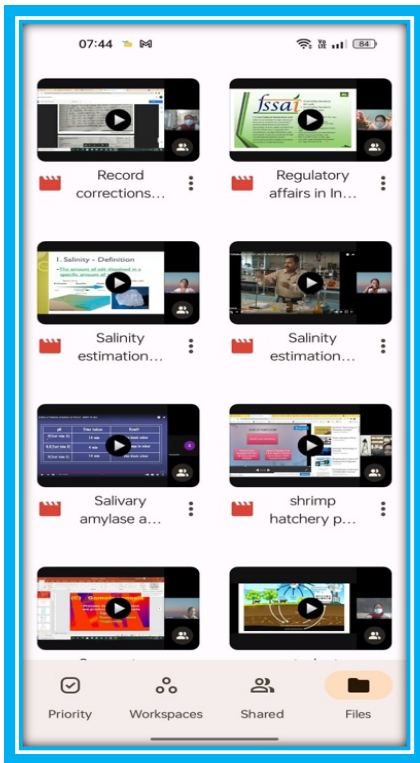
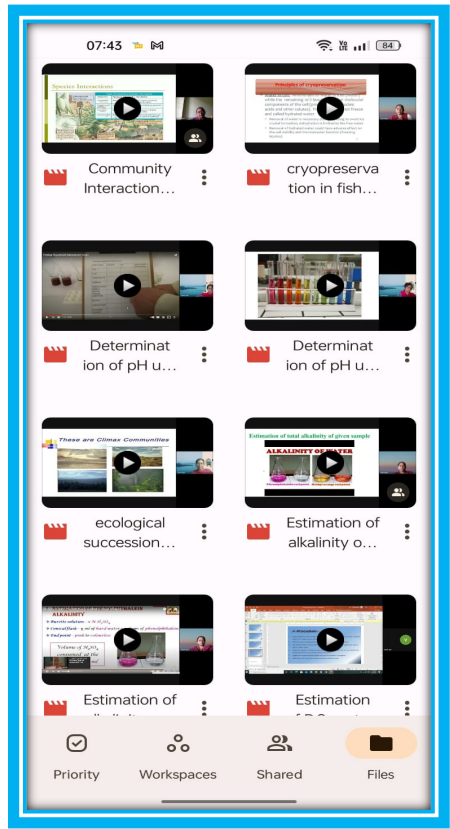
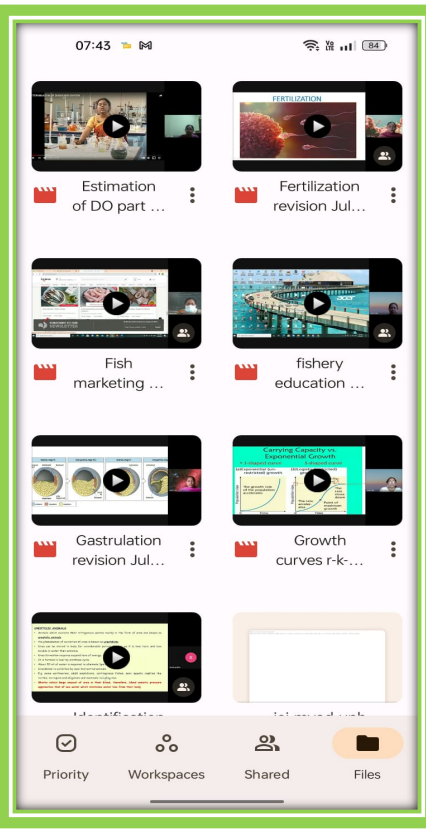
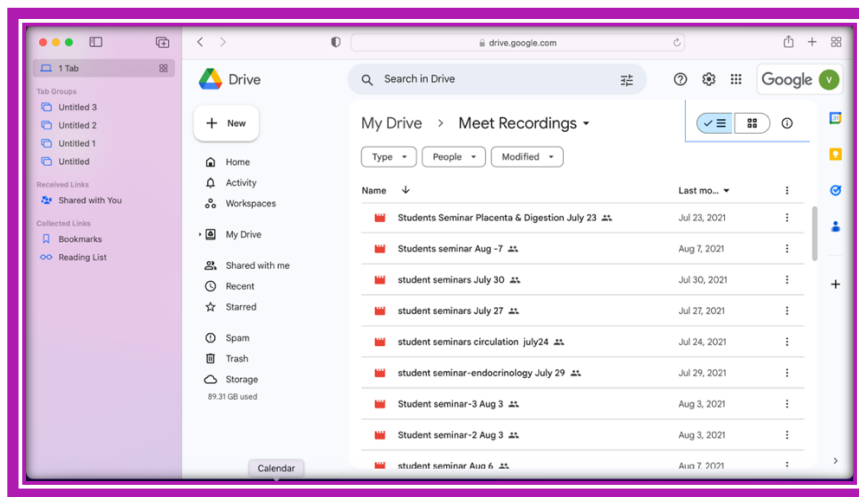
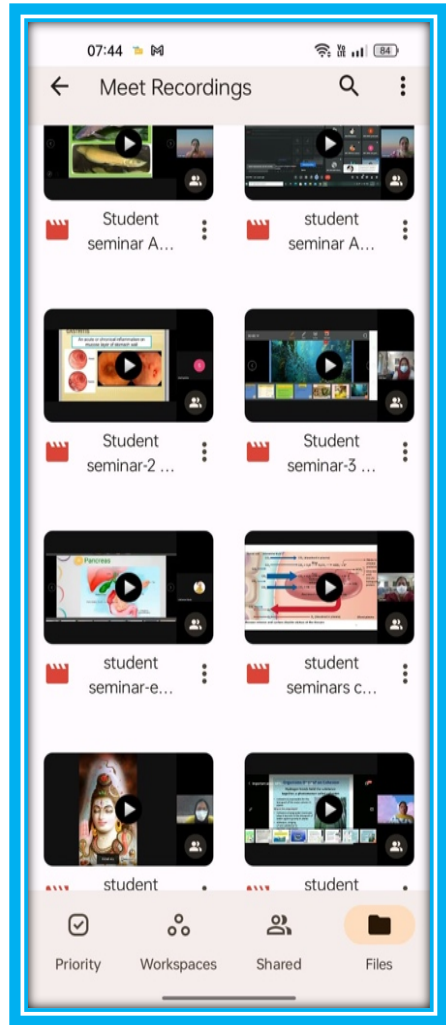
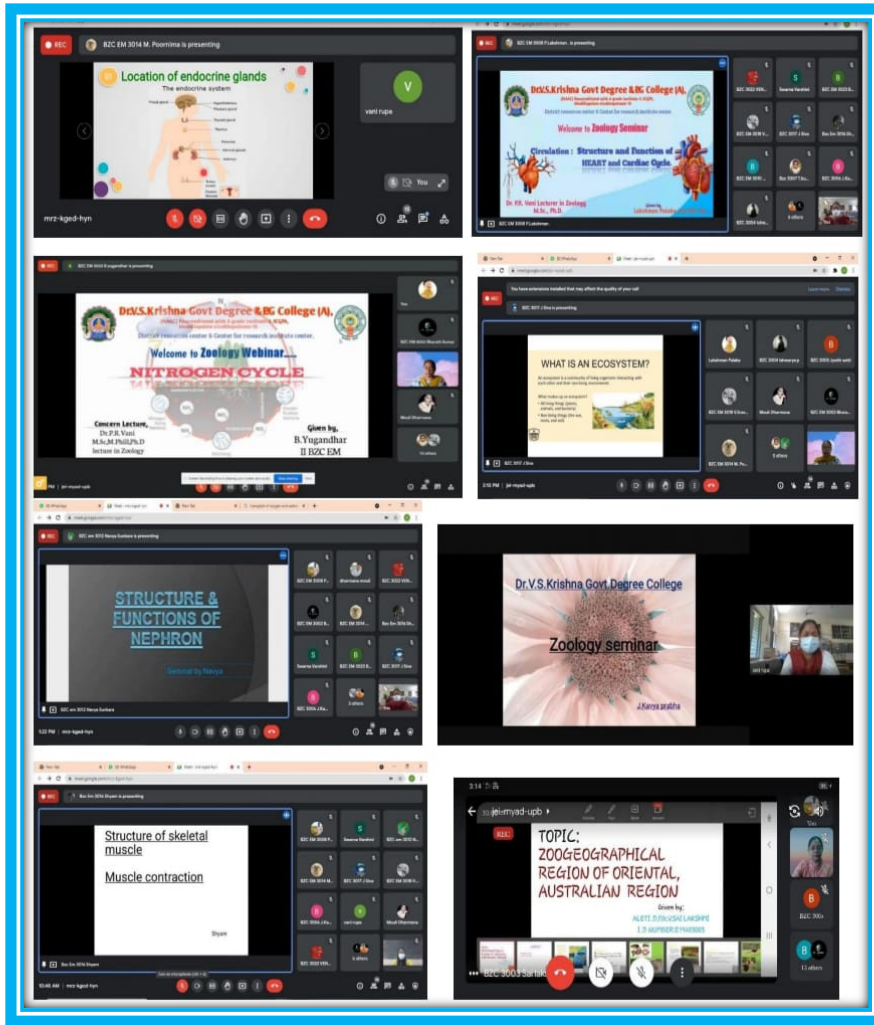


Photo Gallery ICT and LMS Classes (2021-22)

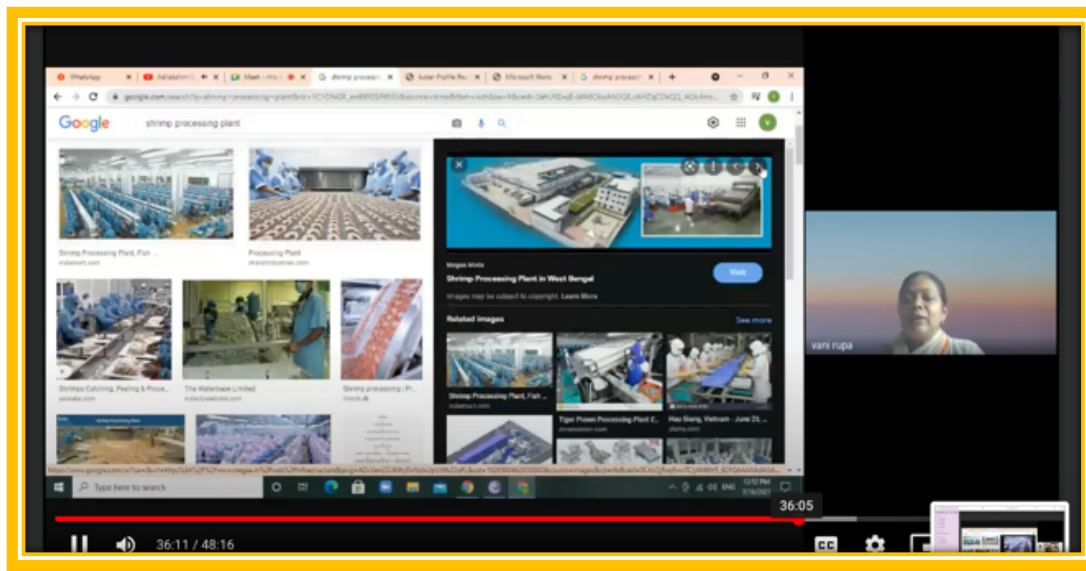
ONLINE STUDENT SEMINARS THROUGH G-MEET & PPTS



RECORDINGS OF ONLINE SEMINARS BY STUDENTS

Photo Gallery
ICT and LMS Classes (2021-22)

Videos (YouTube Videos and Online Video Lectures):



UTILIZING ONLINE RESOURCES FOR ICT BASED TEACHING

Photo Gallery
ICT and LMS Classes (2021-22)

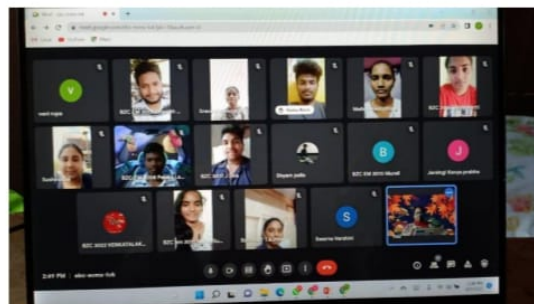
BLENDED LEARNING - NEP INITIATIVE



Virtual Class Room in S 22



Online Learning (Students attending Biotechnology Lecture Series)



Blended learning

Photo Gallery
PHOTO GALLERY: ICT and LMS Classes (2021-22)

**GOOGLE CLASSROOM FOR MONITORING STUDENT PROGRESS DURING
ONLINE CLASSES**

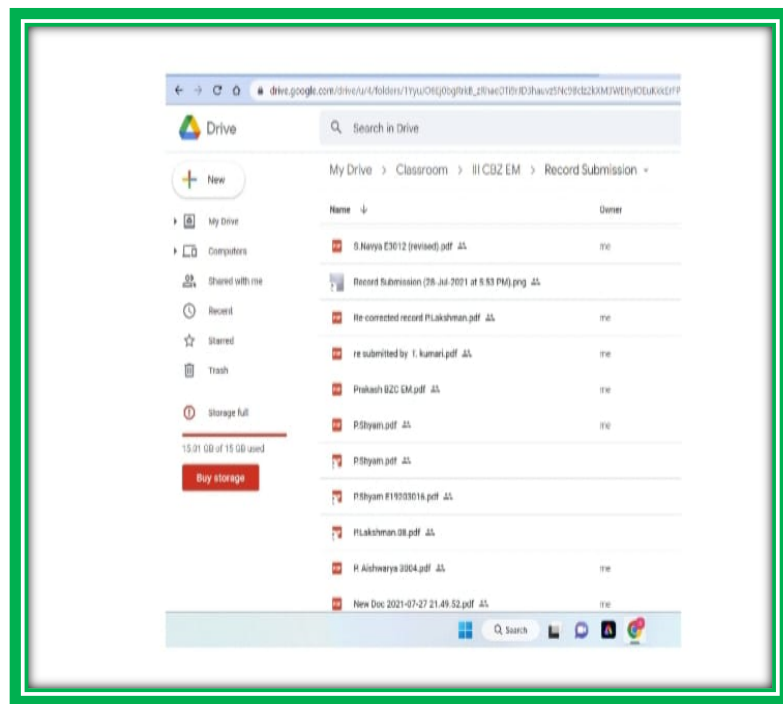
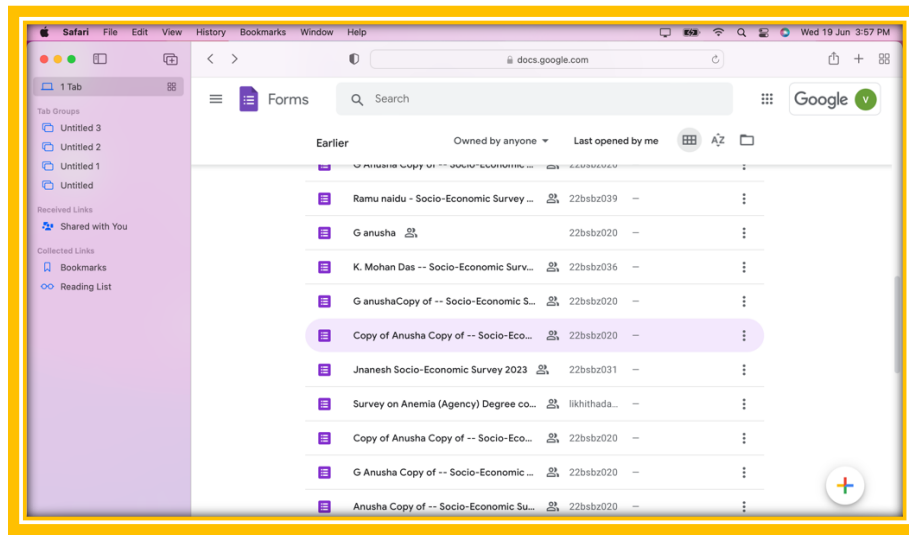


Photo Gallery ICT and LMS Classes (2021-22)

COMMUNITY SERVICE PROJECT



GOOGLE FORMS USED BY STUDENTS FOR CSP SURVEY

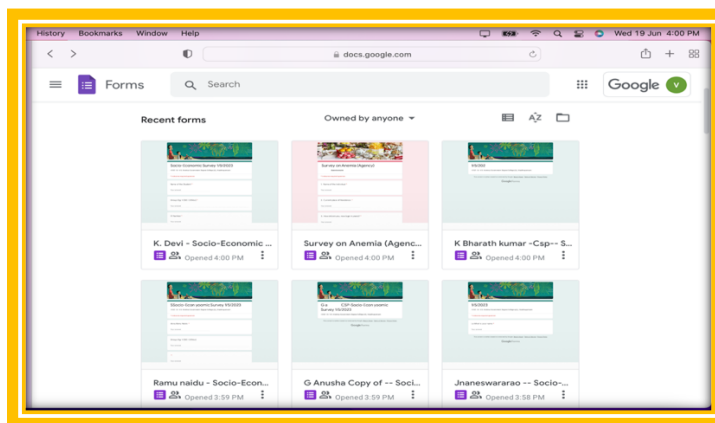


Photo Gallery
ICT and LMS Classes (2021-22)

Google drive: 4 QUADRANT LMS VIDEOS

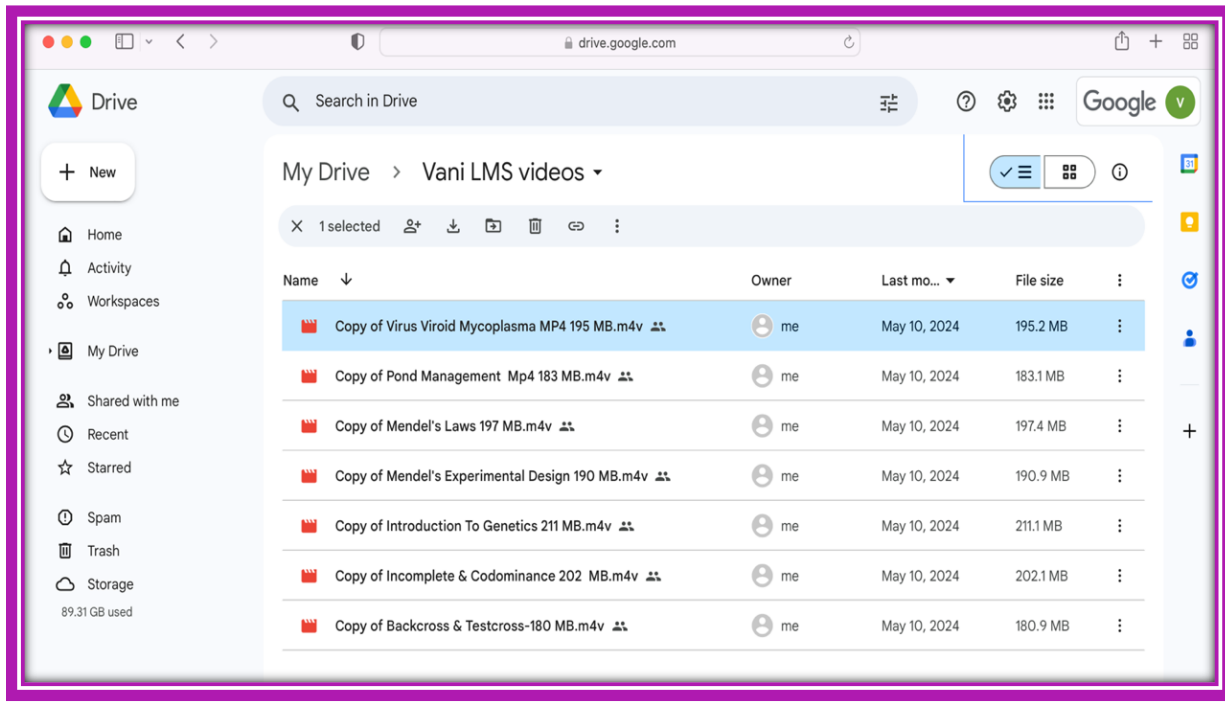


Photo Gallery : ICT and LMS Classes (2021-22)

4 QUADRANT LMS VIDEOS UPLOADED IN CCE WEBSITE

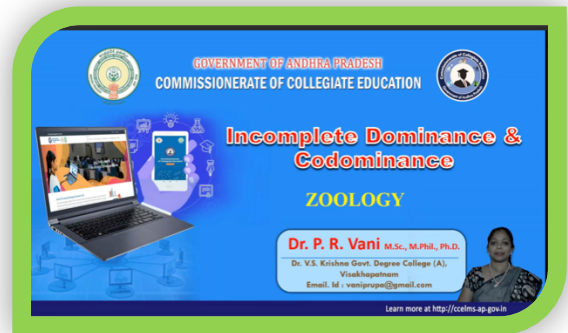


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MENDEL'S LAWS
Zoology

Dr. P. R. VANI M.Sc., M.Phil., Ph.D.
Dr. V. S. Krishna Govt. Degree College (A),
Visakhapatnam
Email. Id : vaniprupa@gmail.com

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GOVERNMENT OF ANDHRA PRADESH
COMMISSIONERATE OF COLLEGIATE EDUCATION

Incomplete Dominance & Codominance
ZOOLOGY

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GOVERNMENT OF ANDHRA PRADESH
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Pond Management
Eradication of aquatic weeds & Control of Predators
Aquaculture

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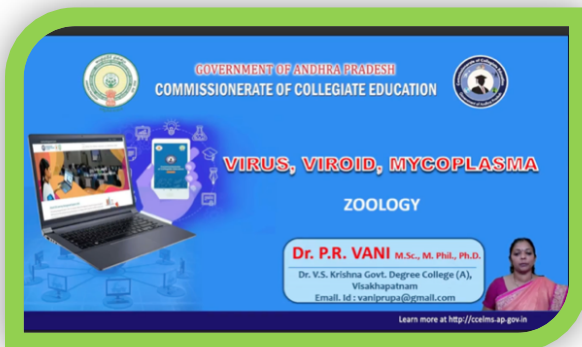


GOVERNMENT OF ANDHRA PRADESH
COMMISSIONERATE OF COLLEGIATE EDUCATION

BACK CROSS & TEST CROSS
ZOOLOGY

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VIRUS, VIROID, MYCOPLASMA
ZOOLOGY

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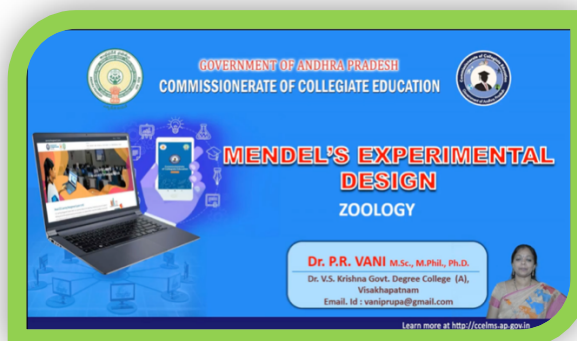
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GOVERNMENT OF ANDHRA PRADESH
COMMISSIONERATE OF COLLEGIATE EDUCATION

Introduction to Genetics
Zoology

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Dr. V.S. Krishna Govt. Degree College (A),
Visakhapatnam
Email. Id : vaniprupa@gmail.com



GOVERNMENT OF ANDHRA PRADESH
COMMISSIONERATE OF COLLEGIATE EDUCATION

MENDEL'S EXPERIMENTAL DESIGN
ZOOLOGY

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Photo Gallery

ICT and LMS Classes (2021-22)

RECORDINGS OF ICT BASED TEACHING IN GOOGLE DRIVE

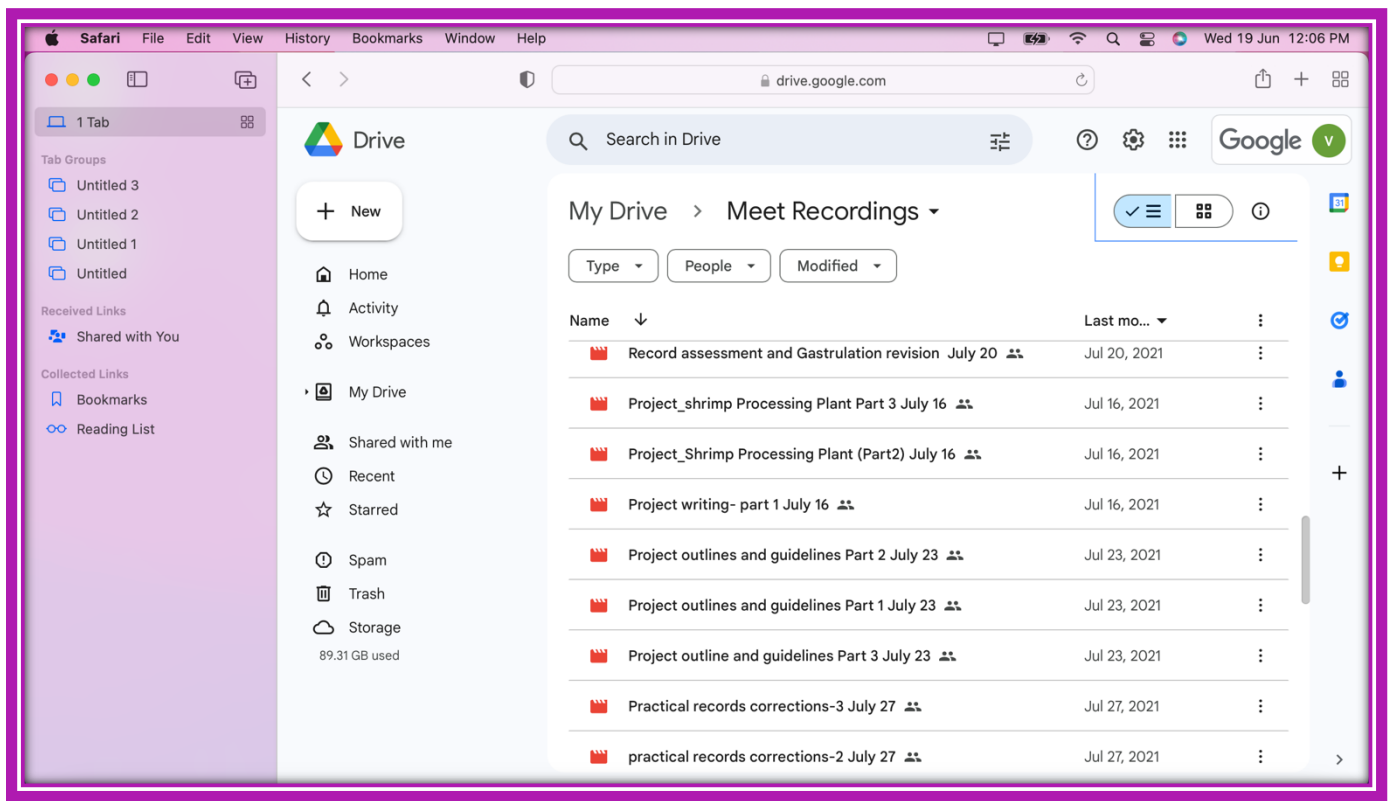
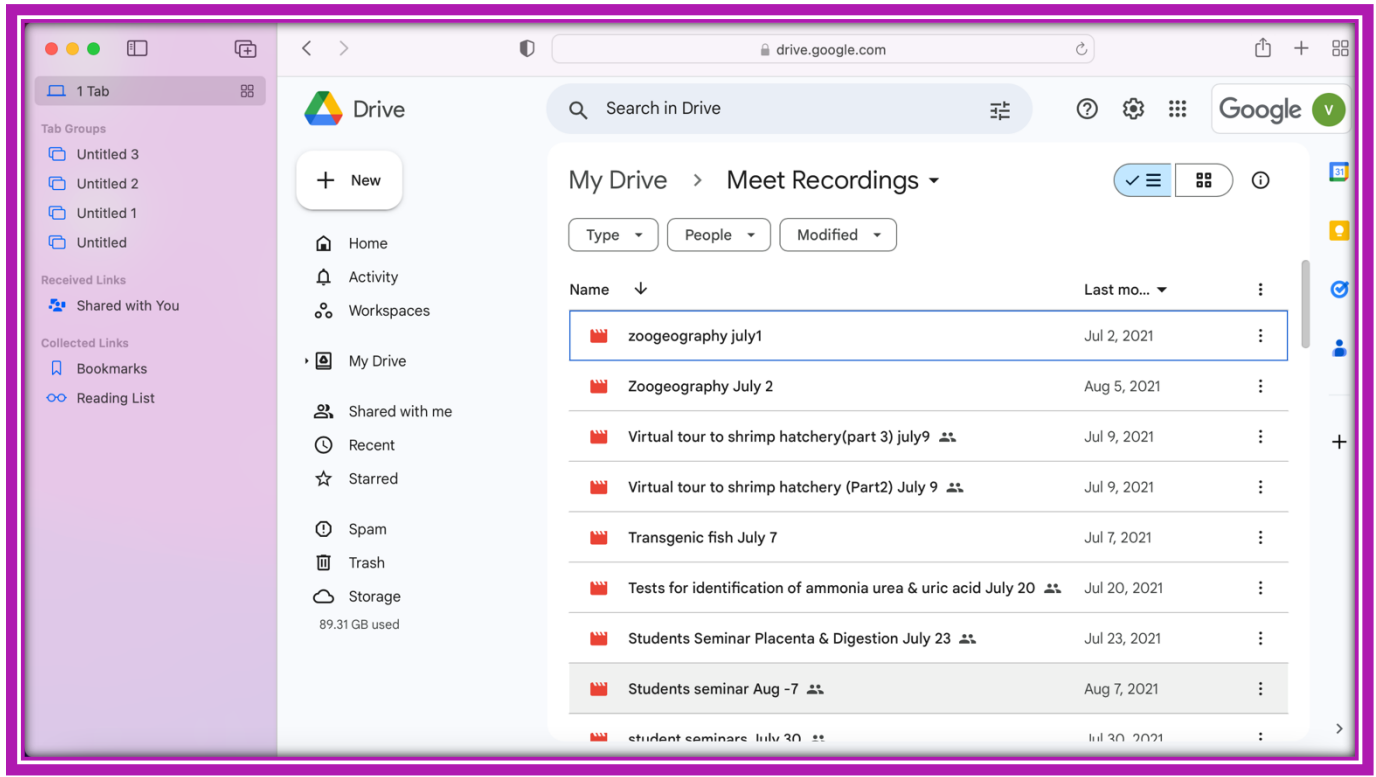


Photo Gallery

ICT and LMS Classes (2021-22)

RECORDINGS OF ICT BASED TEACHING IN GOOGLE DRIVE

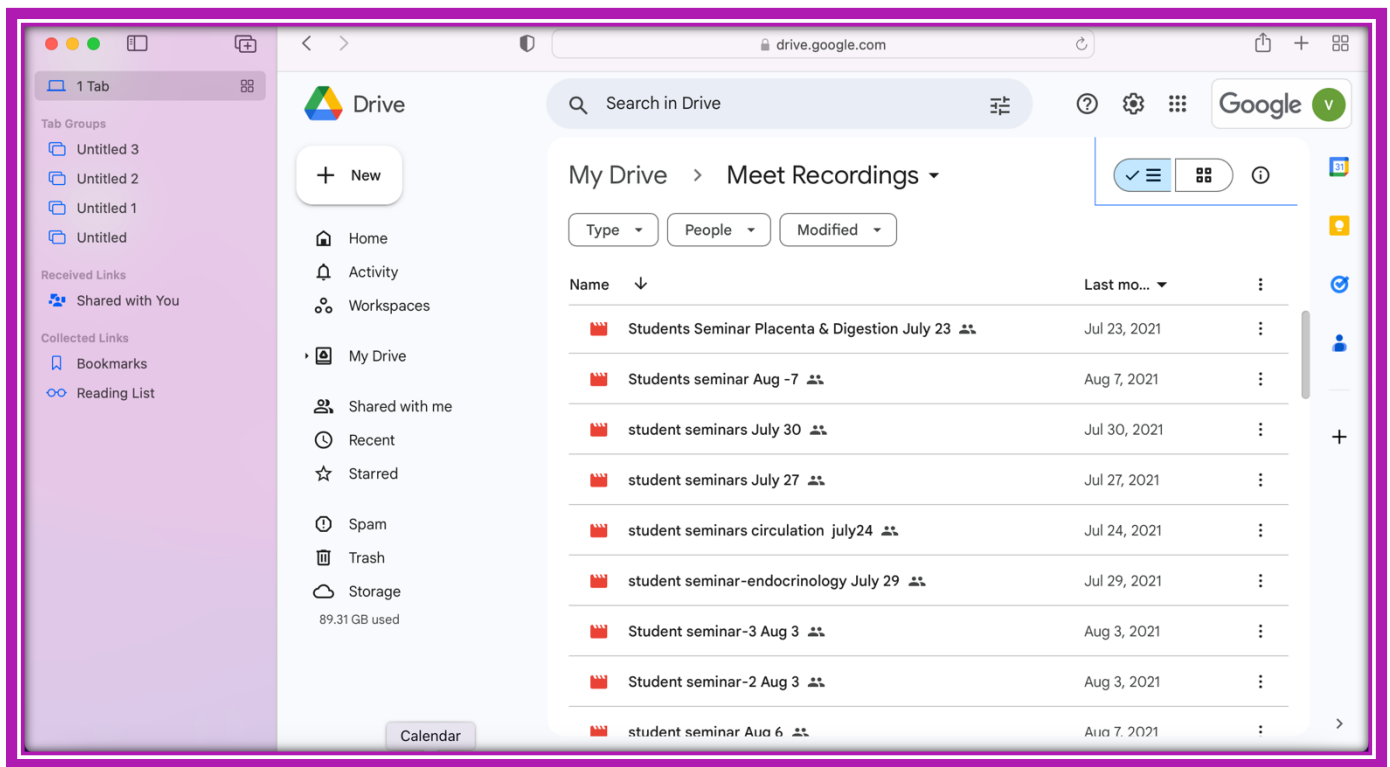
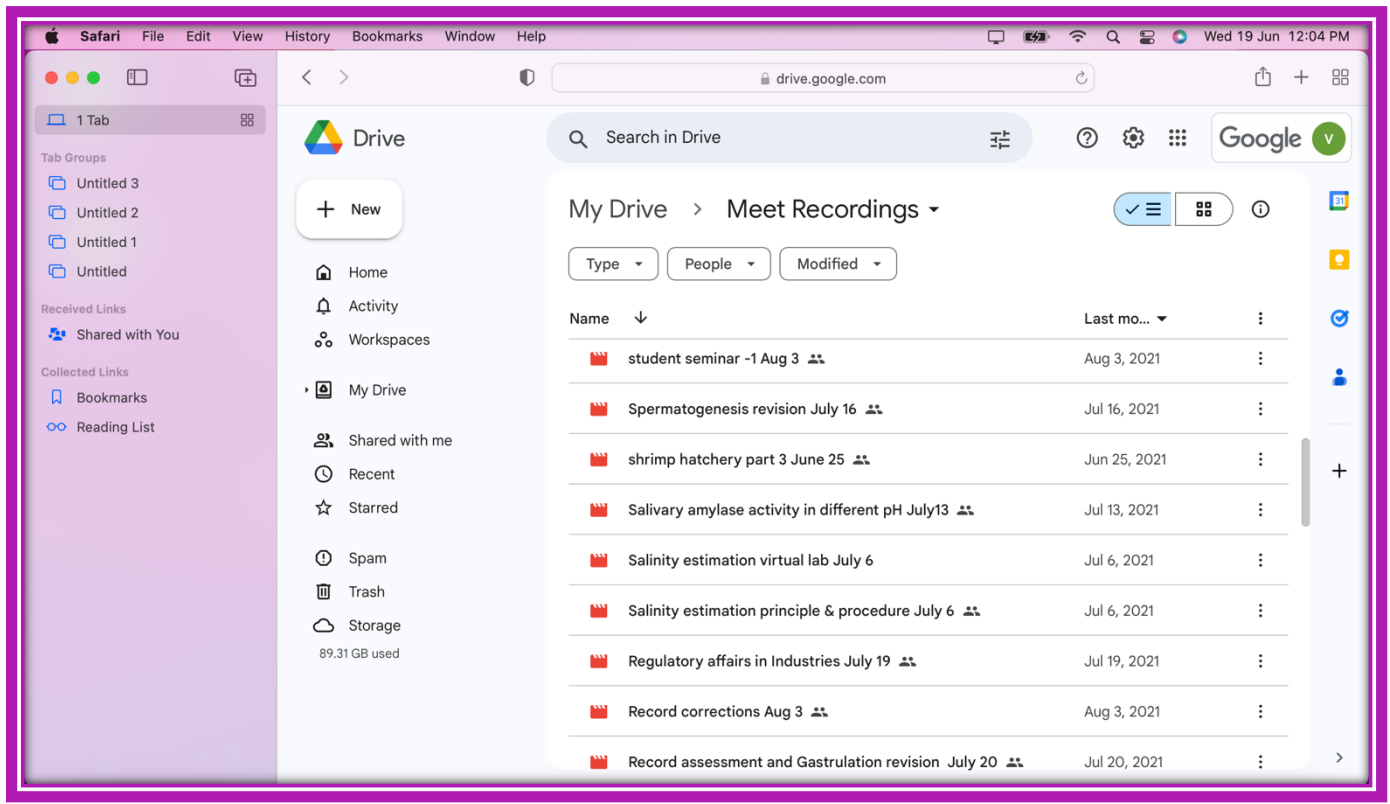


Photo Gallery
ICT and LMS Classes (2021-22)

ONLINE PRACTICAL CLASSES ON ESTIMATION OF pH

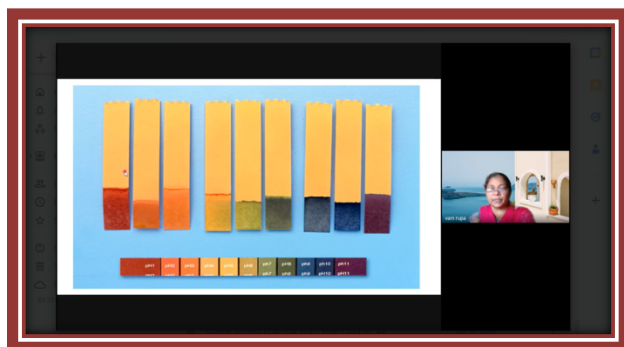
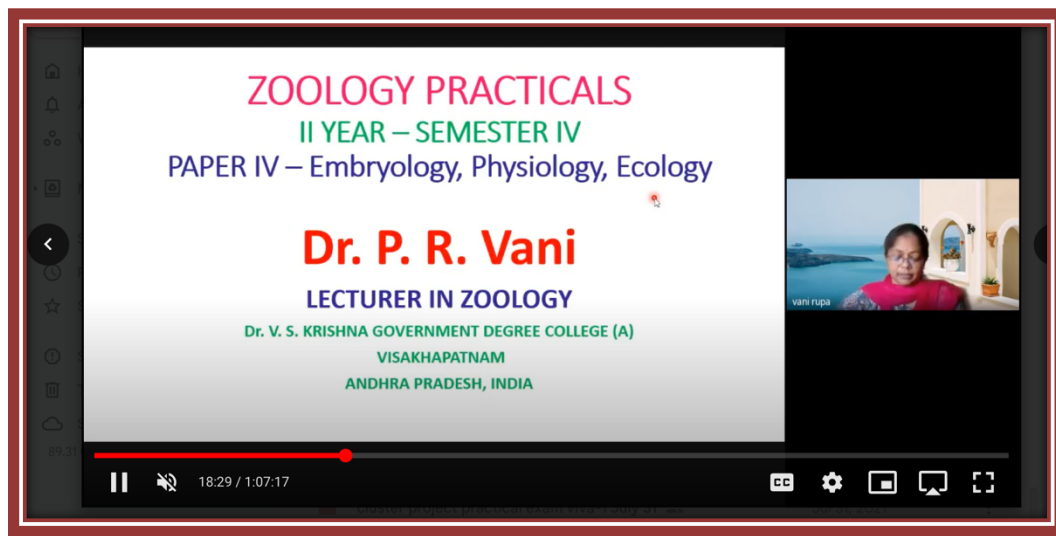


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ICT and LMS Classes 2021-22))

ONLINE PRACTICAL CLASSES ON ESTIMATION OF SALINITY OF WATER

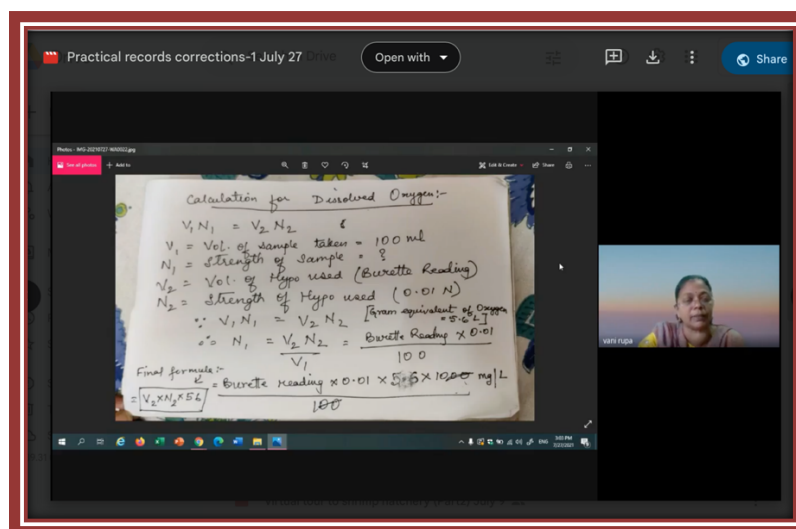


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ICT and LMS Classes (2021-22)

ONLINE PRACTICAL CLASSES ON ESTIMATION OF DISSOLVED OXYGEN

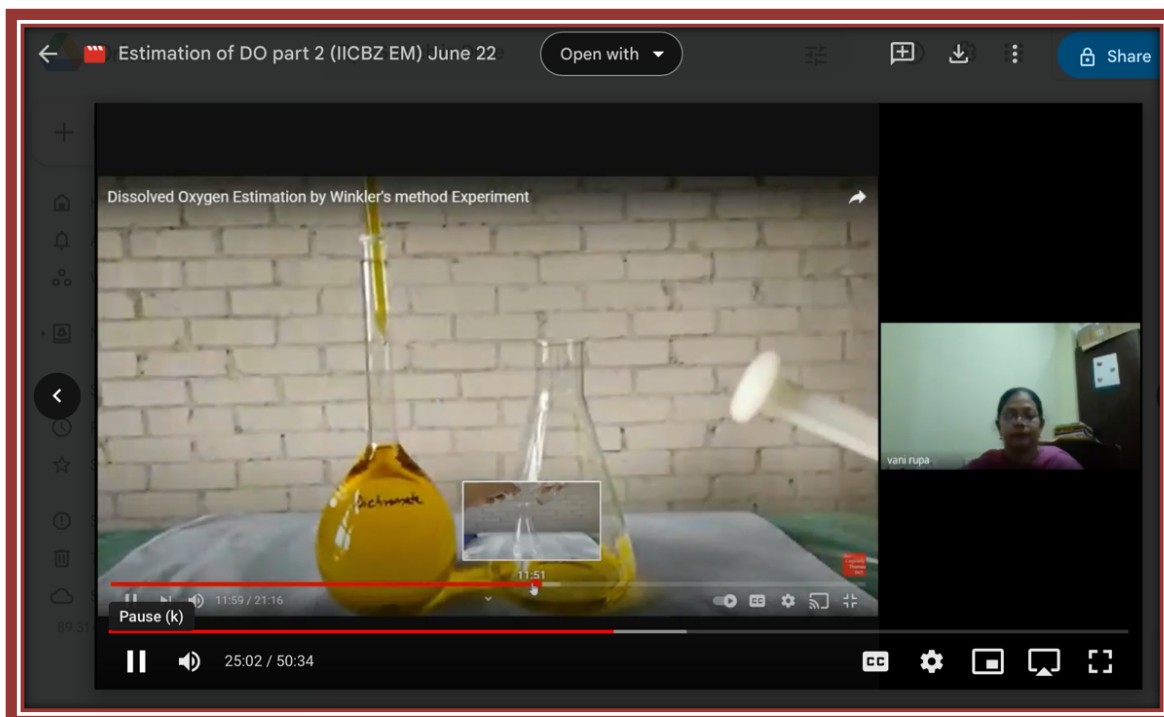


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ONLINE PRACTICAL CLASSES ON ESTIMATION OF ALKALINITY OF WATER

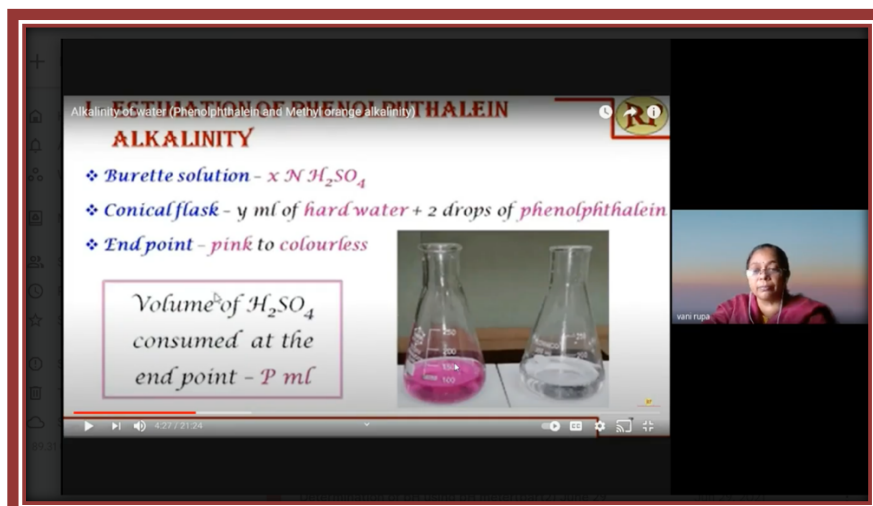
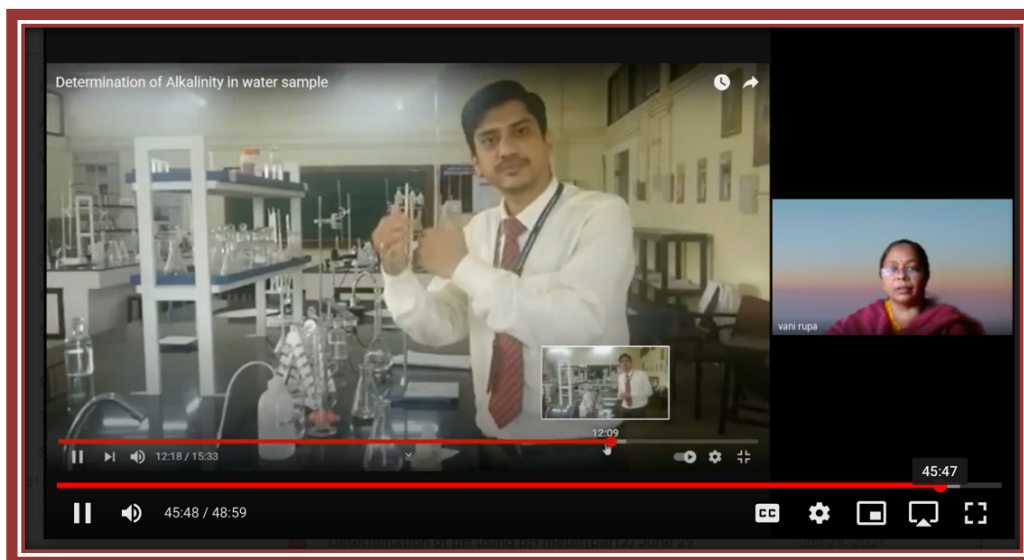


Photo Gallery
ICT and LMS Classes (2021-22)


**ONLINE PRACTICAL CLASSES ON BIOCHEMICAL
ESTIMATION OF AMMONIA & UREA**

Tests for identificati ... ea & uric acid July 20

TEST FOR AMMONIA

Nessler's reagent is an **alkaline solution of Potassium tetraiodomercurate(II)**

$(K_2[HgI_4])K_2[HgI_4]$



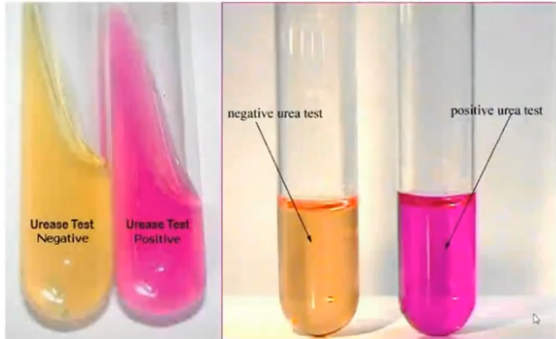
student seminars July 27, 2021

student seminars circulation July 24, 2021

July 24, 2021

vani rupa

TEST FOR UREA



Urease Test Negative Urease Test Positive

negative urea test positive urea test

vani rupa

Photo Gallery

ICT and LMS Classes (202122)

ONLINE CORRECTIONS OF PRACTICAL RECORDS SUBMITTED IN GOOGLE CLASSROOM

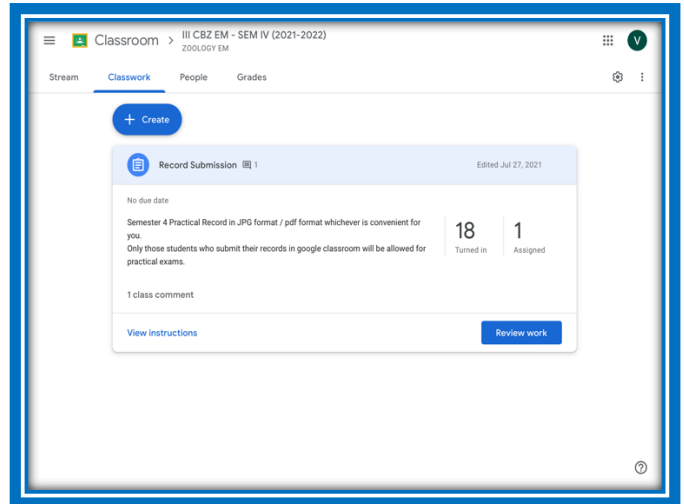
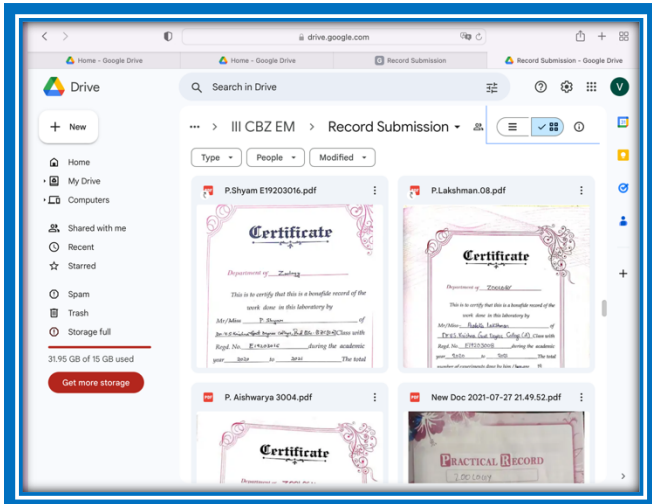
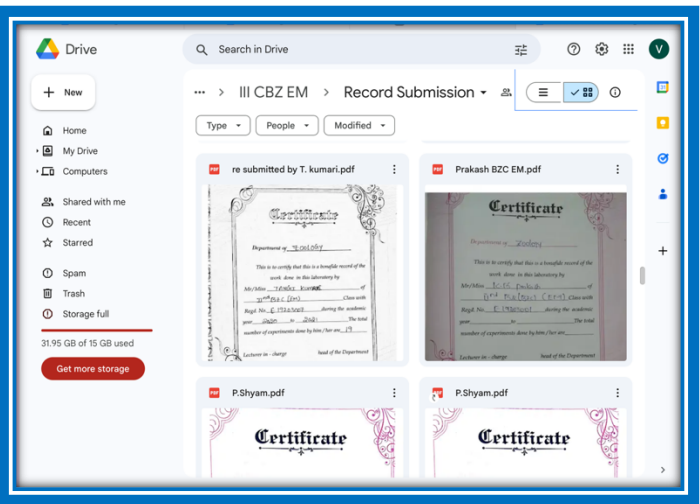
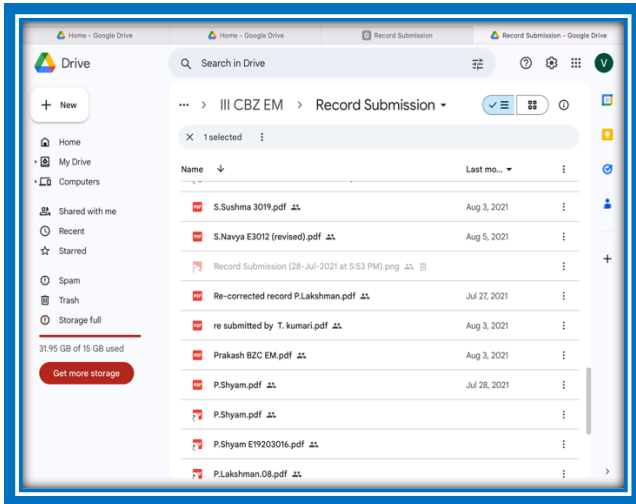
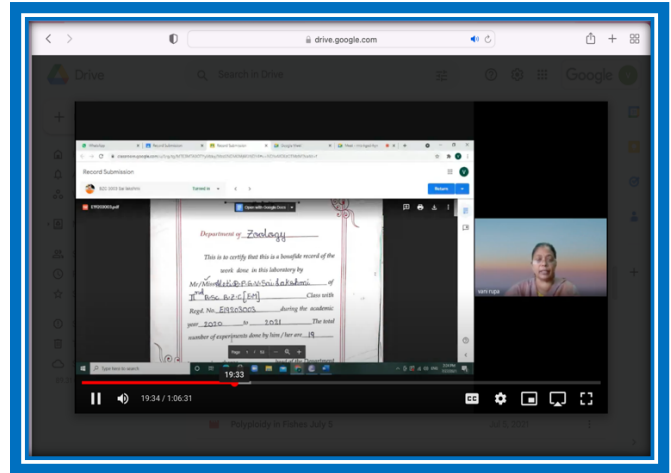
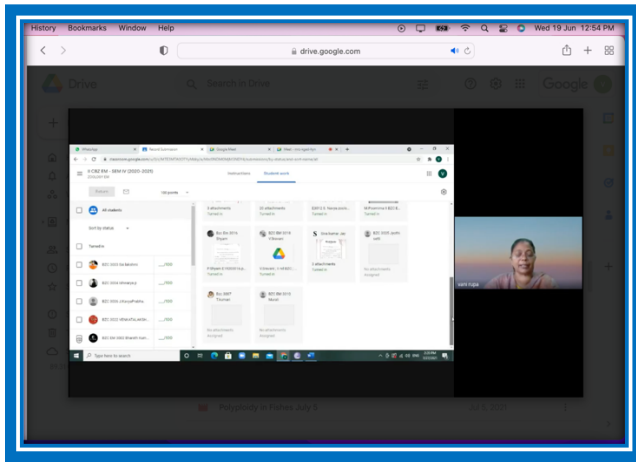
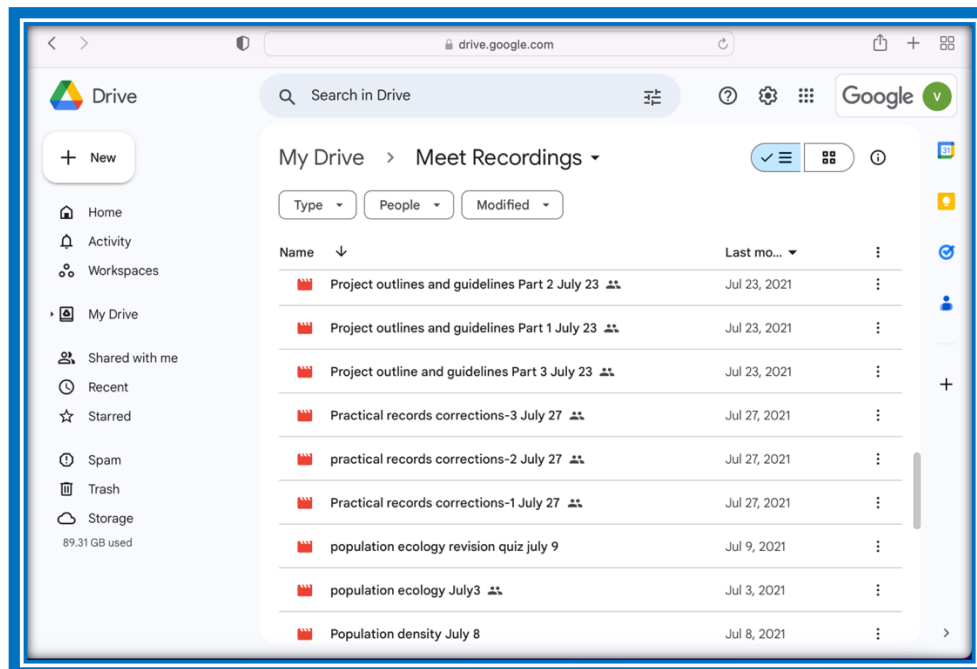
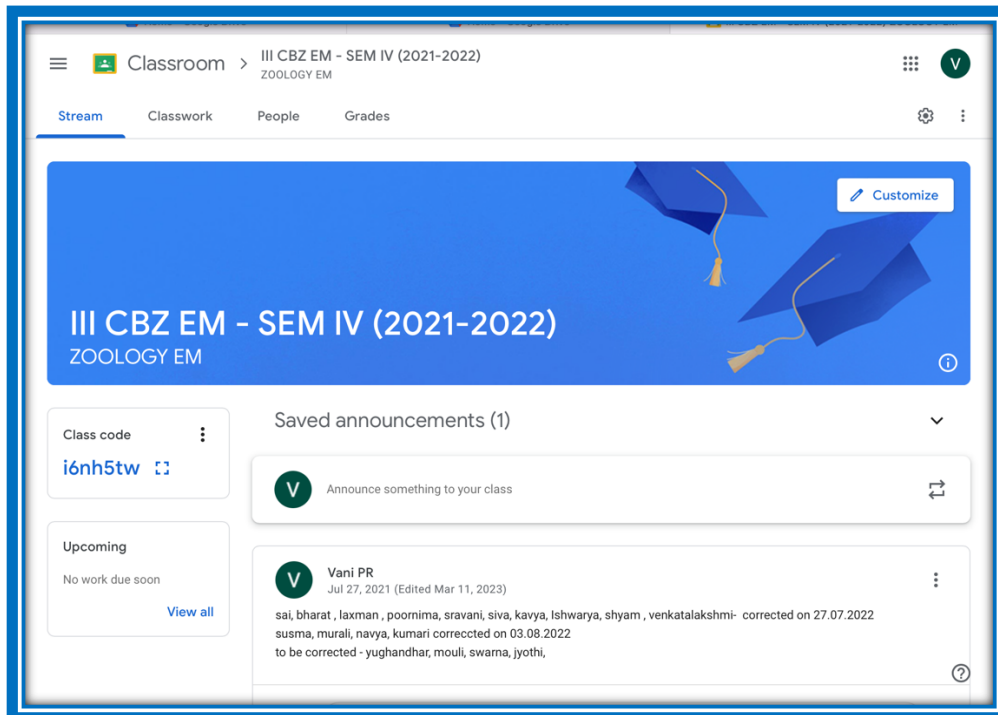


Photo Gallery ICT and LMS Classes (2021-22)

ONLINE CORRECTIONS OF PRACTICAL RECORDS SUBMITTED IN GOOGLE CLASSROOM



MEET RECORDING OF PRACTICAL RECORD CORRECTIONS



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0891-2553262, <https://www.drsvkrishnagdc.edu.in>



ICT and LMS Classes

Name of the Department: **ZOOLOGY**

Year: **2022- 2023**

S.No.	Class	Name of the lecturer	Title of the Lecture	ICT tool/LMS Used
1	I CBZ EM	DR.P.R.VANI	Bird Migration	PODCAST- Anchor
2	I CBZ EM		Water vascular system	PODCAST- Anchor
3	I CBZ EM		Parasitic adaptations in helminths	PODCAST- Anchor
4	I CBZ EM		Community Service Project	G-Meet, Google forms,
5	I CBZ EM		Student assessment: Online mid exam	Google forms
6	I CBZ EM		Virtual Dissections	Online Videos
7	I CBZ EM		Biology of Invertebrates	PPT

Photo Gallery

ICT and LMS Classes (2022-23)

USE OF PPT IN CLASSROOM TEACHING



Photo Gallery
ICT and LMS Classes (2022-23)

ICT BASED CLASSROOM TEACHING USING CELL PHONE

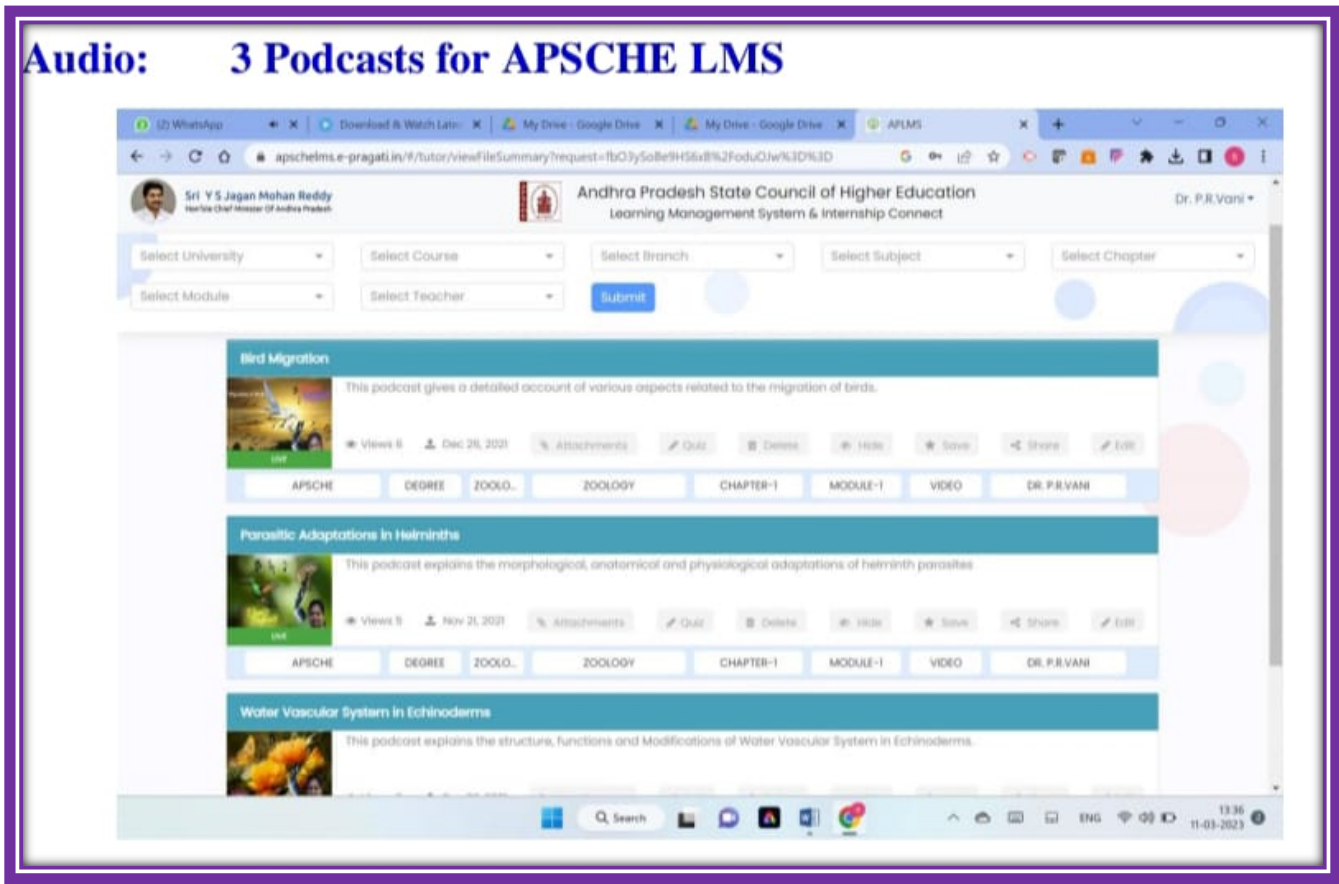


VIRTUAL DISSECTIONS AS PER UGC GUIDELINES



Photo Gallery
ICT and LMS Classes (2022-23)

A JOURNEY THROUGH THE WORLD OF PODCAST



STUDENT ASSESSMENT THROUGH GOOGLE FORMS

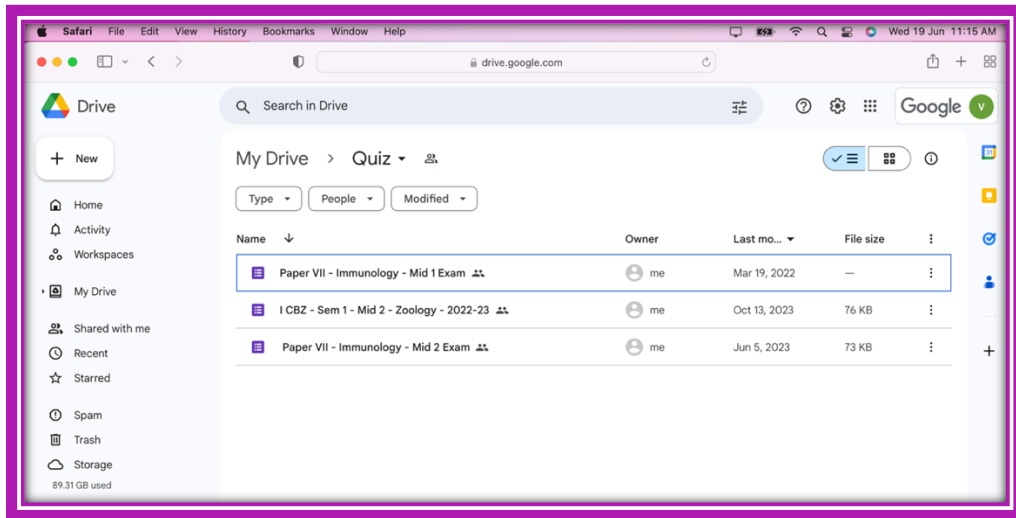


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ICT and LMS Classes (2022-23)

COMMUNITY SERVICE PROJECT

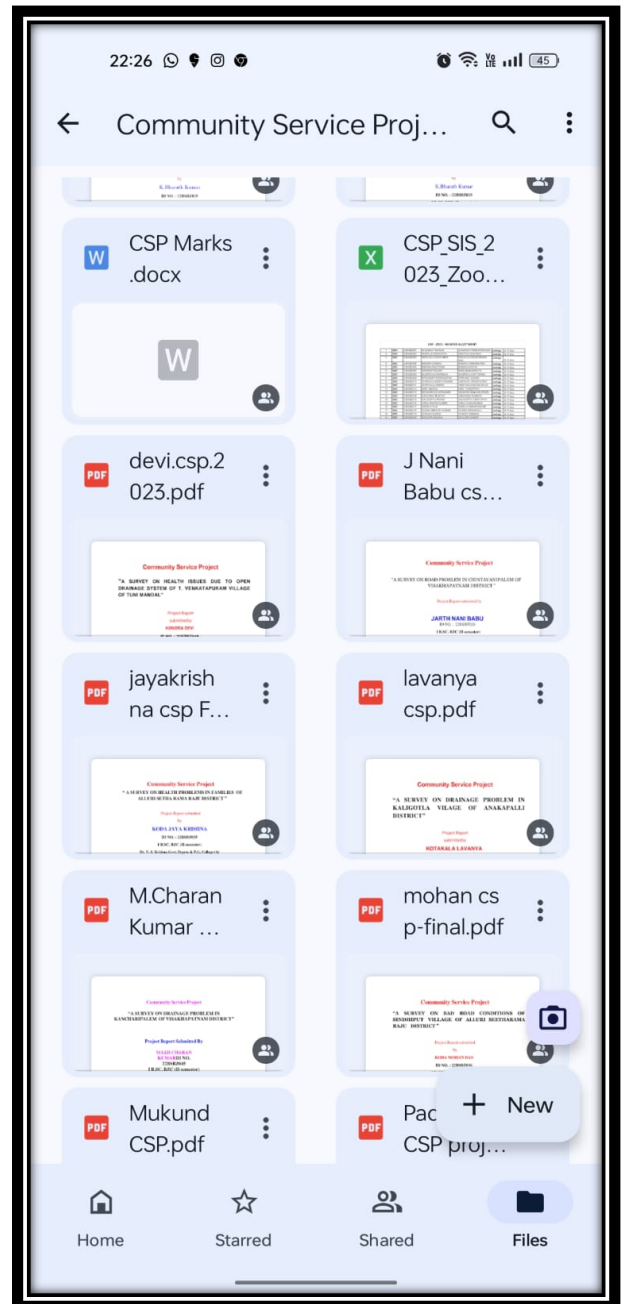
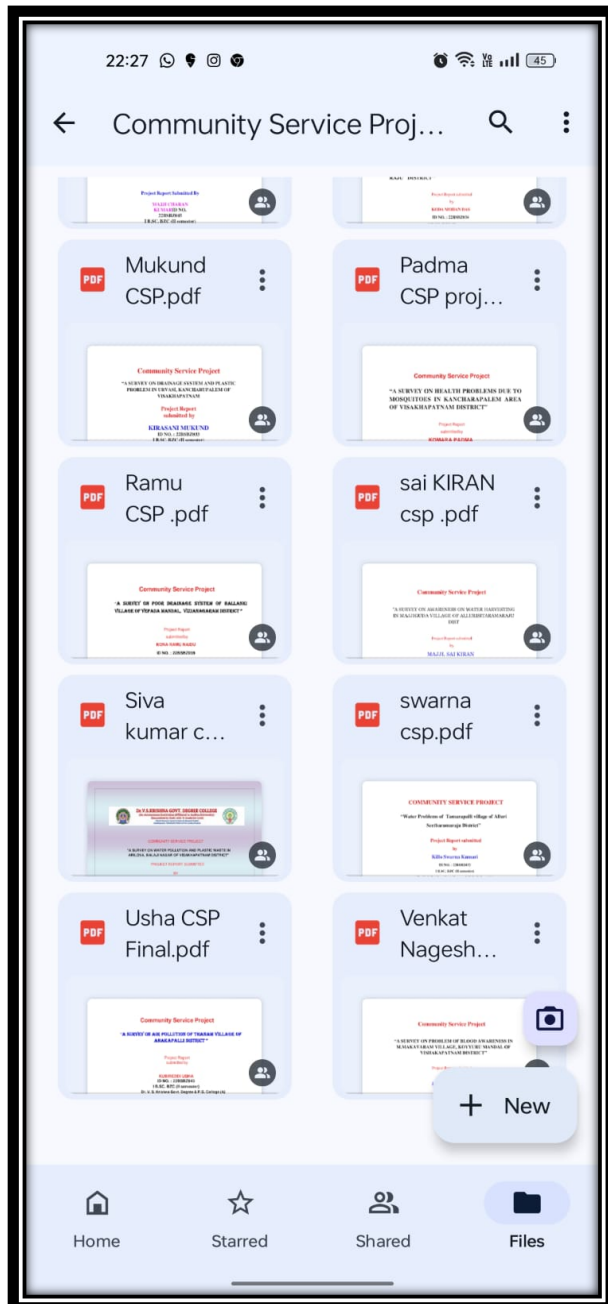
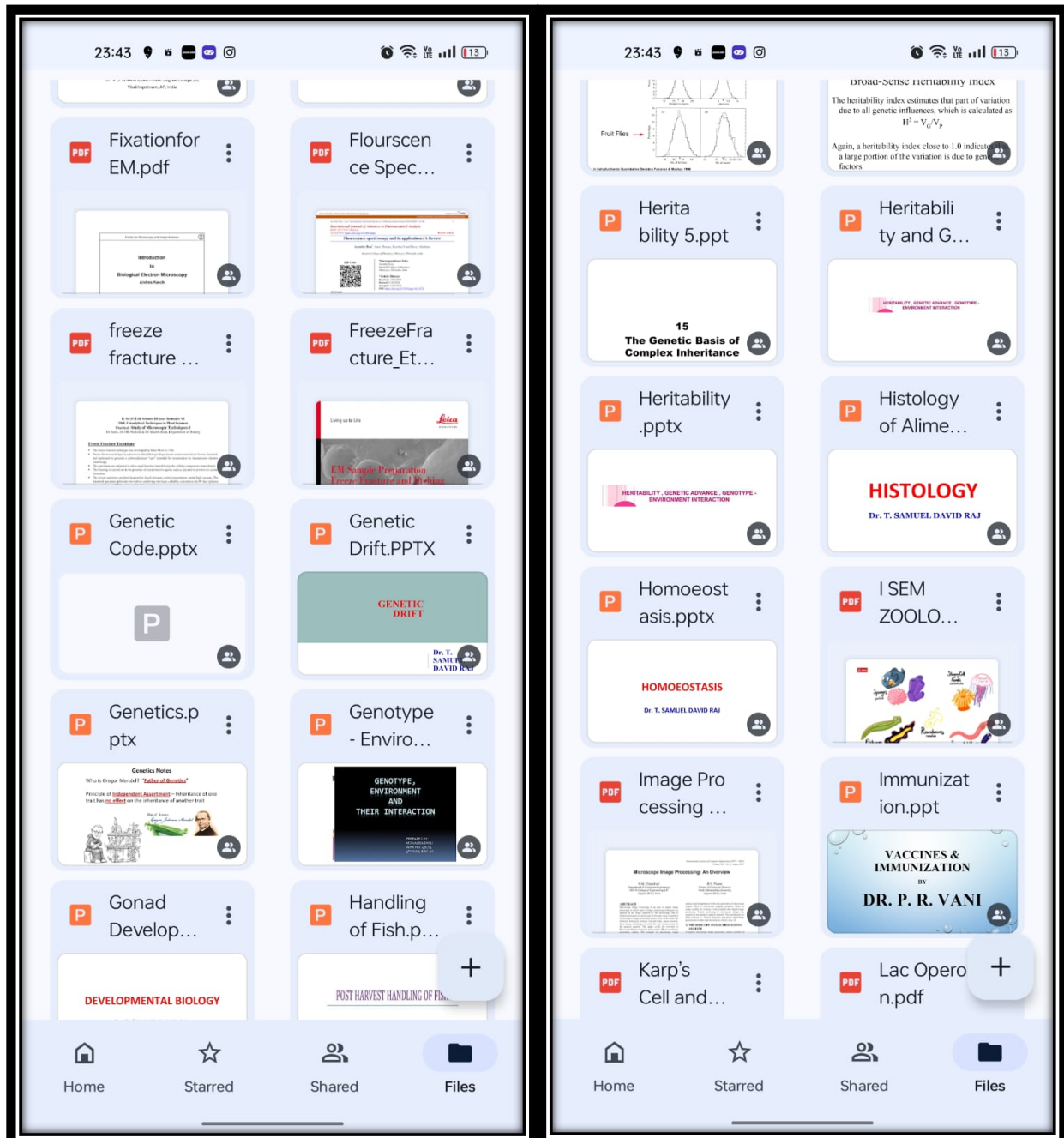


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ICT and LMS Classes (2022-23)

USE OF PPTS FOR ICT BASED CLASSES





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ICT and LMS Classes

Name of the Department: Zoology

Name of the Lecturer: Dr. Y. Shanti Prabha

Year	Class	Paper Title	ICT tool/LMS Used
2019-2020	II CBZ TM	Cell Biology, Genetics, Ecology and Evolution	PPTs and Google Classroom
		Animal Physiology, Biomolecules and embryology	PPTs and Google Classroom
2020-2021	II CBZ TM	Cell Biology, Genetics, Ecology and Evolution	PPTs and Google Classroom
		Animal Physiology, Biomolecules and embryology	PPTs and Google Classroom
	I CBZ EM	Biology of Chordates	PPTs, Recorded Video Explanations and Google Classroom
2021-2022	II CBZ EM	Cell Biology, Genetics, Molecular Biology and Evolution	PPTs, Recorded Video Explanations and Google Classroom
		Animal Physiology, Cellular metabolism and embryology	PPTs, Recorded Video Explanations and Google Classroom
2022-2023	II CBZ EM	Cell Biology, Genetics, Molecular Biology and Evolution	PPTs, Recorded Video Explanations and Google Classroom
		Animal Physiology, Cellular metabolism and embryology	PPTs, Recorded Video Explanations and Google Classroom



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Photo Gallery

2020-2021, 2021-2022

Classroom > 2020-21 II CBZ Zoology class
TM

Home
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Teaching
To review
2021 - 2022 PG Zoology Zoology
1 II sem CBZ EM 2020 - 2021 EM
2 2020-21 II CBZ Zoology class TM
Archived classes
Settings

Stream Classwork People Grades

2020-21 II CBZ Zoology class
TM

Upcoming
No work due soon
View all

Announce something to your class

shanti prabha posted a new material: Pratidehalu nirmaanamu, mariyu rakaali video explanation

Posted Apr 18, 2022

IgG.webm
Video

Classroom > 2020-21 II CBZ Zoology class
TM

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Teaching
To review
2021 - 2022 PG Zoology Zoology
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Stream Classwork People Grades

Add class comment...

shanti prabha posted a new material: Unit 2 topics video explanation

Posted Apr 12, 2022 ▶ 67 students

antigens.webm
Video

Classroom > 2020-21 II CBZ Zoology class
TM

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To review
2021 - 2022 PG Zoology Zoology
1 II sem CBZ EM 2020 - 2021 EM
2 2020-21 II CBZ Zoology class TM
Archived classes
Settings

Stream Classwork People Grades

shanti prabha posted a new material: 3hrs Practical explanation on Salivary amylase kriyaatma...

Posted Jul 10, 2021 ▶ 33 students

Because batch 2 students have missed the practical on second Saturday, I am sharing these recorded videos for you to listen.

8/7/2021.web II tm B1 1st h...
Video

8/7/2021 II tm B1 2nd hour...
Video

8/7/2021 II TM B1 3rd hour ...
Video

Classroom > 2020-21 II CBZ Zoology class TM

Home Calendar Teaching To review 2021 - 2022 PG Zoology Zoology 1 II sem CBZ EM 2020 - 2021 EM 2 2020-21 II CBZ Zoology class TM Archived classes Settings

Stream Classwork People Grades

shanti prabha posted a new material: Test video

Posted Dec 17, 2020

ಲಿಂಗ ನಿರ್ದಾರಣಾ YouTube video • 19 minutes

Add class comment...

shanti prabha posted a new material: test video

Posted Dec 17, 2020 1 student

ಲಿಂಗ ನಿರ್ದಾರಣಾ YouTube video • 19 minutes

Classroom > II sem CBZ EM 2020 - 2021 EM

Home Calendar Teaching To review 2021 - 2022 PG Zoology Zoology 1 II sem CBZ EM 2020 - 2021 EM 2 2020-21 II CBZ Zoology class TM Archived classes Settings

Stream Classwork People Grades

shanti prabha posted a new material: General characters of Aves and mammals video explanat...

Posted Dec 19, 2021

Video explanation

General characters of ave... Video

General characters of ma... Video

Add class comment...

shanti prabha posted a new material: Respiratory system in pigeon or Columba video explanat...

Posted Dec 15, 2021

Respiratory system in Pige... Video

Classroom > II sem CBZ EM 2020 - 2021 EM

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Stream Classwork People Grades

Add class comment...

shanti prabha posted a new material: Migration in birds video explanation

Posted Dec 12, 2021

Migration in birds.webm Video

Add class comment...

Classroom > Il sem CBZ EM 2020 - 2021 EM

Home Calendar Teaching To review 2021 - 2022 PG Zoology Zoology 1 Il sem CBZ EM 2020 - 2021 EM 2020-21 II CBZ Zoology class TM Archived classes Settings

Stream Classwork People Grades

shanti prabha posted a new material: Dentition in mammals

Posted Dec 11, 2021

Dentition in mammals.web... Video

Add class comment...

shanti prabha posted a new material: Calotes heart, respiratory and brain video explanations

Posted Dec 9, 2021

calotes respiratory system... Video

calotes heart.webm Video

Calotes brain.webm Video

Classroom > Il sem CBZ EM 2020 - 2021 EM

Home Calendar Teaching To review 2021 - 2022 PG Zoology Zoology 1 Il sem CBZ EM 2020 - 2021 EM

Stream Classwork People Grades

shanti prabha posted a new material: Flight adaptations remaining part video

Posted Dec 12, 2021

flight adaptations remaini... Video

Classroom > Il sem CBZ EM 2020 - 2021 EM

Home Calendar Teaching To review 2021 - 2022 PG Zoology Zoology 1 Il sem CBZ EM 2020 - 2021 EM

Stream Classwork People Grades

shanti prabha posted a new material: Carbohydrates structure and function

Posted Aug 18, 2022 19 students

carbs struc & function.we... Video

Classroom > Il sem CBZ EM 2020 - 2021 EM

Home Calendar Teaching To review 2021 - 2022 PG Zoology Zoology 1 Il sem CBZ EM 2020 - 2021 EM

Stream Classwork People Grades

shanti prabha posted a new material: digestive system of calotes video explanation

Posted Dec 7, 2021

Calotes digestive system... Video

Classroom > II sem CBZ EM 2020 - 2021 EM

Home | Calendar | Teaching | To review | 2021 - 2022 PG Zoology Zoology | **1** II sem CBZ EM 2020 - 2021 EM | 2020-21 II CBZ Zoology class TM | Archived classes | Settings

Stream | Classwork | People | Grades

shanti prabha posted a new material: External features of calotes

Posted Dec 5, 2021 | 17 students

external features of calote...
Video

Add class comment...

shanti prabha posted a new material: Structure and function of heart in Rana hexadactyla

Posted Dec 4, 2021 | 17 students

04 dec 2021 structure and...
Video

Classroom > II sem CBZ EM 2020 - 2021 EM

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Stream | Classwork | People | Grades

Add class comment...

shanti prabha posted a new material: Respiratory system in scollodon

Posted Nov 3, 2021 | 17 students

please find the study material and video explanation

Mechanism and physiolog...
Video

respiratory system in scoll...
PDF

Classroom > II sem CBZ EM 2020 - 2021 EM

Home | Calendar | Teaching | To review | 2021 - 2022 PG Zoology Zoology | **1** II sem CBZ EM 2020 - 2021 EM | 2020-21 II CBZ Zoology class TM | Archived classes

Stream | Classwork | People | Grades

shanti prabha posted a new material: Transcription, post transcriptional modification , and tra...

Posted Apr 25, 2022

Video explanation on unit 4 chapters

Translation.webm
Video

Transcription and posttran...
Video

Add class comment...

Classroom > II sem CBZ EM 2020 - 2021 EM

Home Calendar Teaching To review 2021 - 2022 PG Zoology Zoology 1 II sem CBZ EM 2020 - 2021 EM 2 2020-21 II CBZ Zoology class TM Archived classes Settings

Stream Classwork People Grades

shanti prabha posted a new material: Video explanation for the chapter sex determination

Posted Apr 17, 2022

chromosomal basis of sex ... Video sex determination part 2.... Video

Add class comment...

shanti prabha posted a new material: Video explanation on chromosomal disorders

Posted Apr 17, 2022

chromosomal disorders.w... Video

Classroom > II sem CBZ EM 2020 - 2021 EM

Home Calendar Teaching To review 2021 - 2022 PG Zoology Zoology 1 II sem CBZ EM 2020 - 2021 EM 2 2020-21 II CBZ Zoology class TM Archived classes Settings

Stream Classwork People Grades

Add class comment...

shanti prabha posted a new material: Structure and functions of Nucleus

Posted Feb 25, 2022 ▶ 19 students

Structure and Functions o... Video

Add class comment...

Online Classes during Covid

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Google Account shanti prabha shantivakgdc1@gmail.com

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d4df90e2-9d73-453e-b01... You opened - Jul 9, 2021	5th july 2021 6th hr.webm You opened - Jul 5, 2021	screen-capture (60).webm You opened - Oct 7, 2021	15/7/2021 6th hr ll cbz tm... You opened - Jul 15, 2021	screen-capture (2).webm You opened - Jul 6, 2021

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8/7/2021 II tm B1 2nd hour.webm	me	Jul 10, 2021	616 MB
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8/7/2021.web II tm B1 1st hour	me	Jul 10, 2021	1.09 GB
13th July 3rd hr III cbz TM.webm	me	Jul 13, 2021	320.1 MB
13th July 5th hr II CBZ EM practical.webm	me	Jul 13, 2021	485.7 MB
13th July 6th Hr II CBZ TM.webm	me	Jul 13, 2021	354.6 MB
14th July 2021 4th hr II CBZ TM.webm	me	Jul 14, 2021	1.22 GB
15/07/2021 II CBZ TM B1 practical 1st hour.webm	me	Jul 15, 2021	1.04 GB
15/07/2021 II CBZ TM B1 practical 2nd hour.webm	me	Jul 15, 2021	1.08 GB
15/07/2021 II CBZ TM B1 practical 3rd hour.webm	me	Jul 15, 2021	1.03 GB
Copy of screen-capture (22).webm	me	Jul 12, 2021	678.8 MB

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shantidrvskgdc2@gmail.com

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17/7/2021 3rd hour.webm	me	Jul 17, 2021	316.7 MB
27/07/2021 III CBZ TM 3rd hour.mp4	me	Jul 27, 2021	68.5 MB
30/7/2021	me	Aug 2, 2021	2.9 MB
30/07/2021	me	Aug 2, 2021	1.1 MB
2021_05_26_11_08_36.mp4	me	Aug 25, 2021	2.51 GB
20210727_120156.mp4	me	Jul 27, 2021	68.5 MB
class work suspended circular dated 02/08/2021	me	Aug 2, 2021	83 KB
Digestive system of calotes.webm	me	Dec 5, 2021	88.9 MB

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shanti prabha
shantivskgdc2@gmail.com

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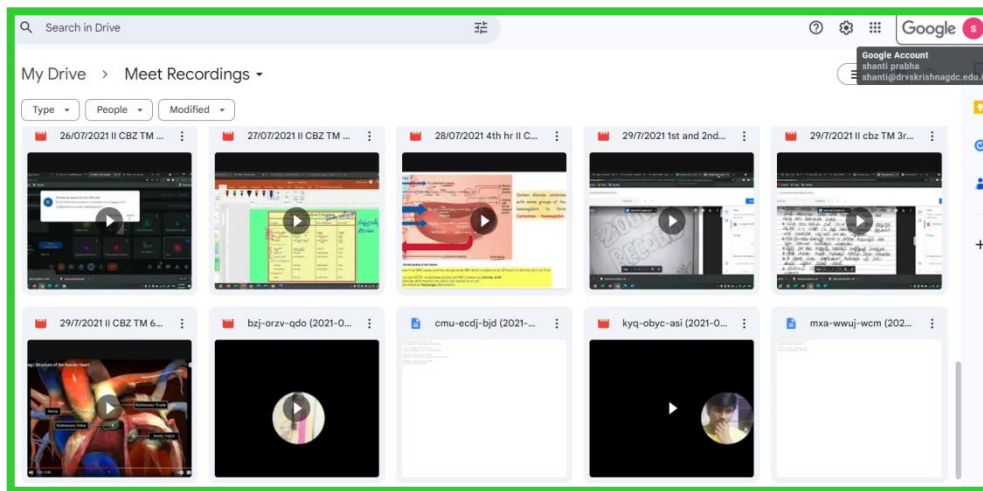
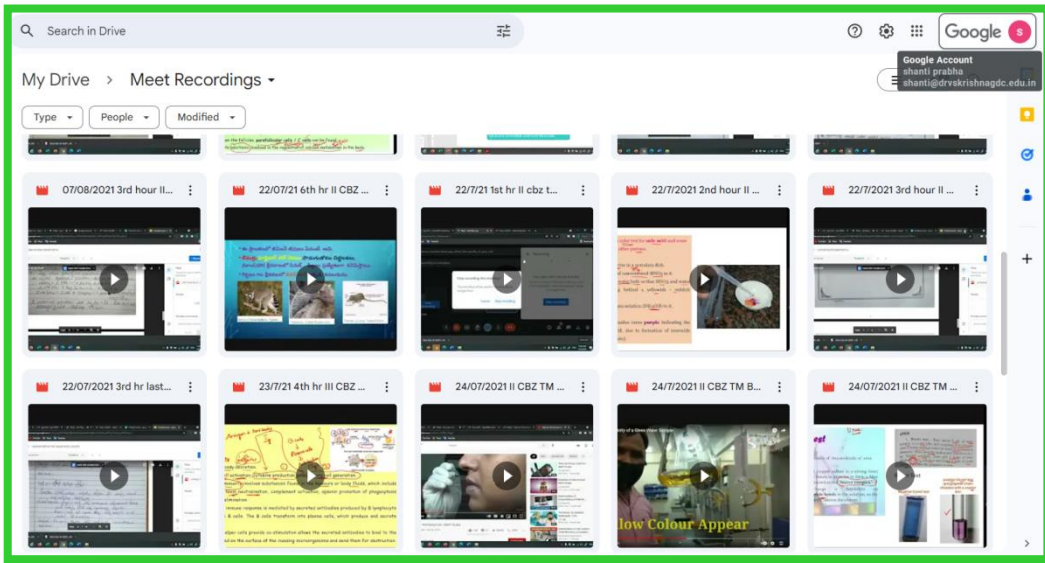
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03/08/2021 3rd hour I...	03/08/2021 6th hour I...	04/08/2021 4th hr II C...	05/08/2021 1st hour II...	05/08/2021 2nd hour ...
05/08/2021 3rd hour I...	05/08/2021 6th hour I...	06/08/2021 4th hour I...	07/08/2021 1st hour II ...	07/08/2021 2 nd hr II ...

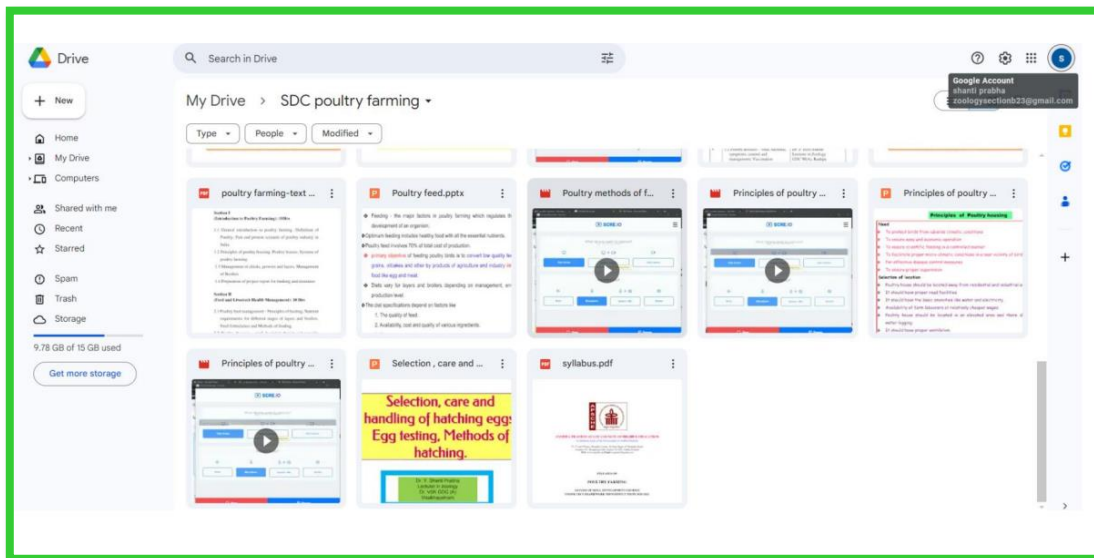
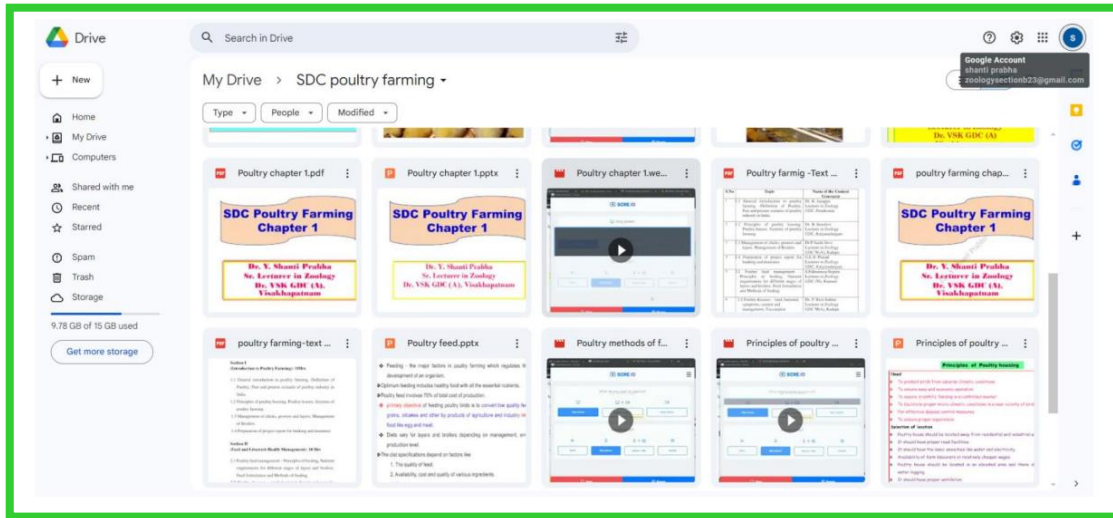
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shanti prabha
shanti@drvskrishnagdc.edu.in



2022-2023

**Recorded Video Explanations and PPTs
on
SDC Poultry Farming**

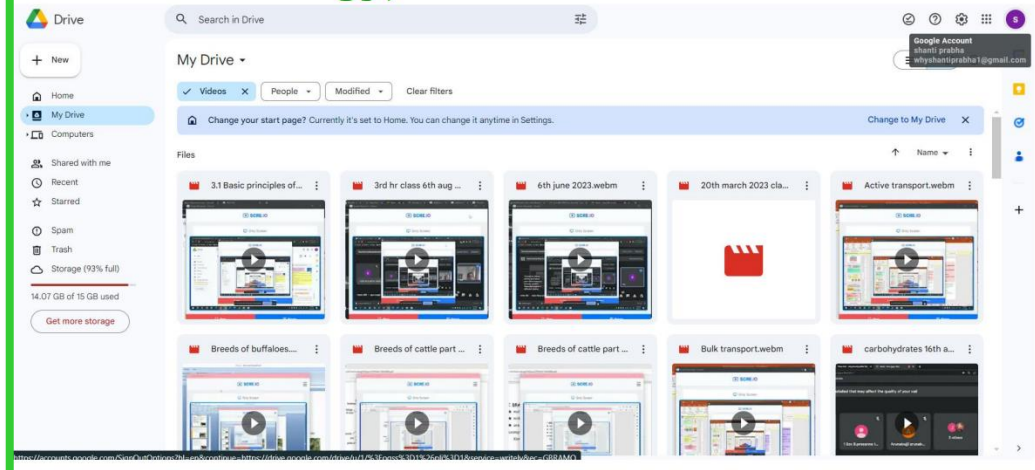


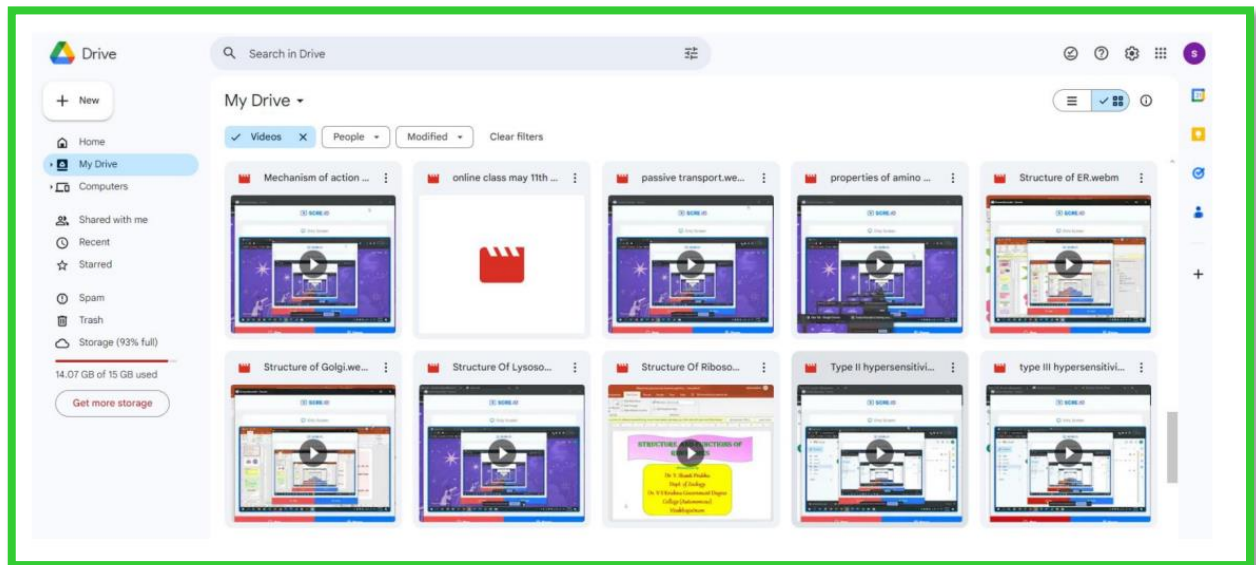
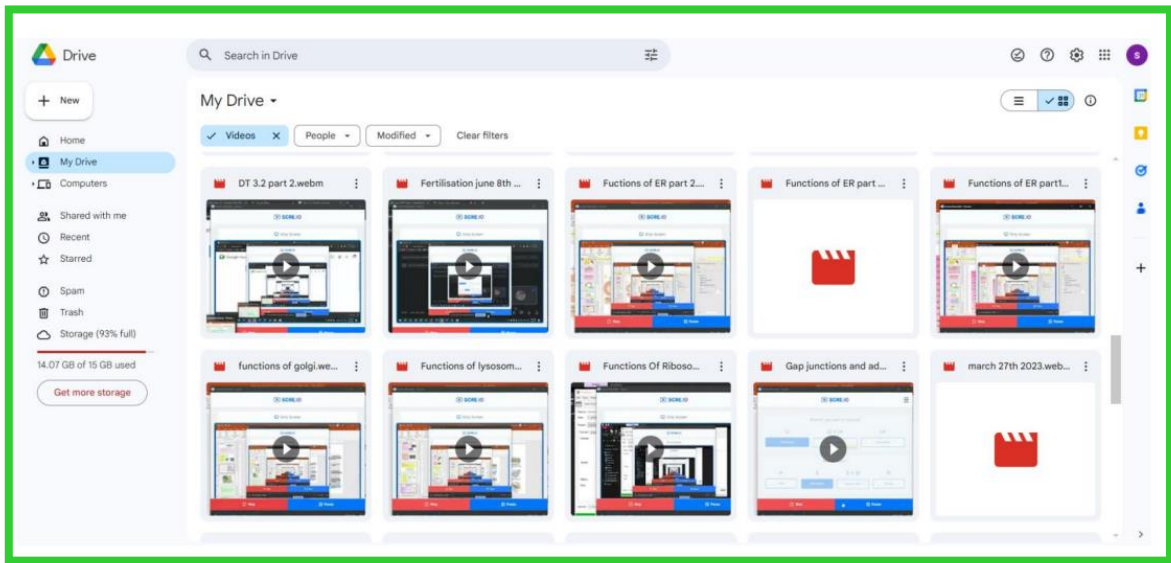
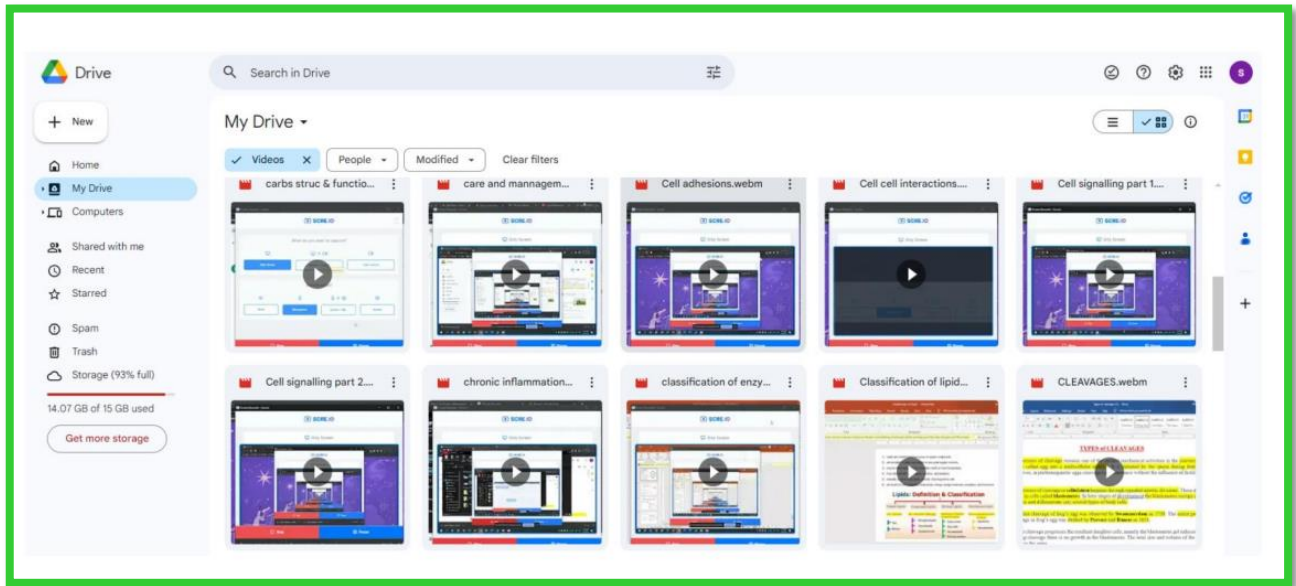


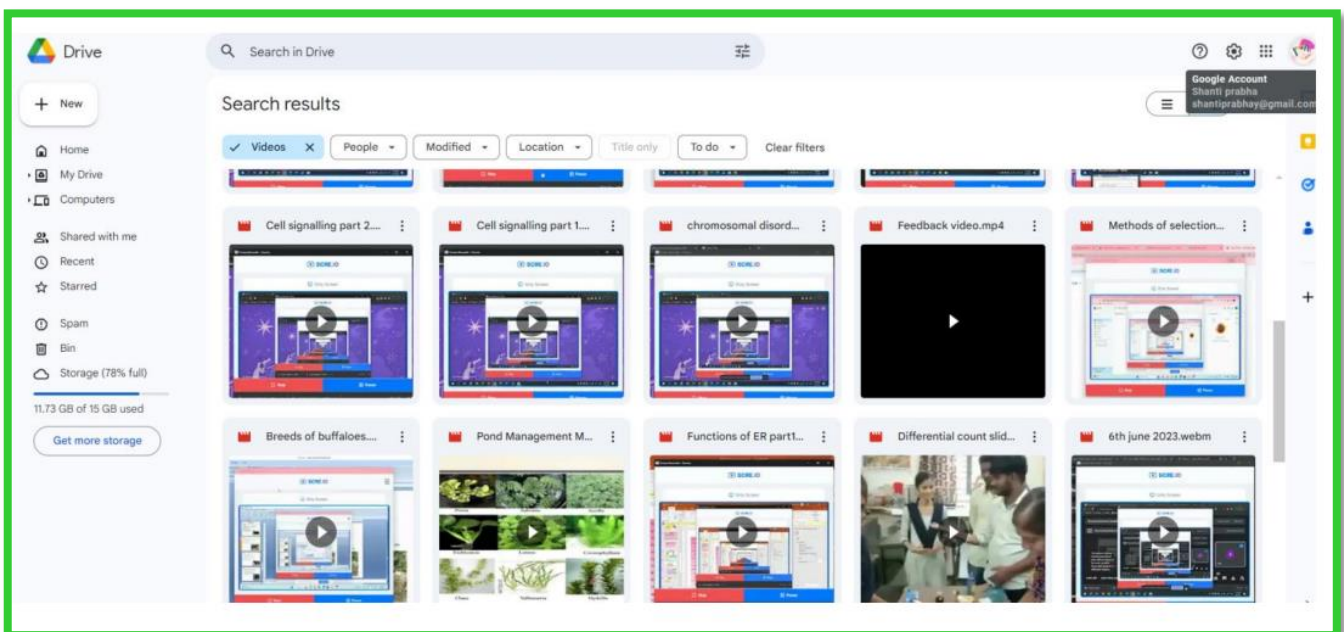
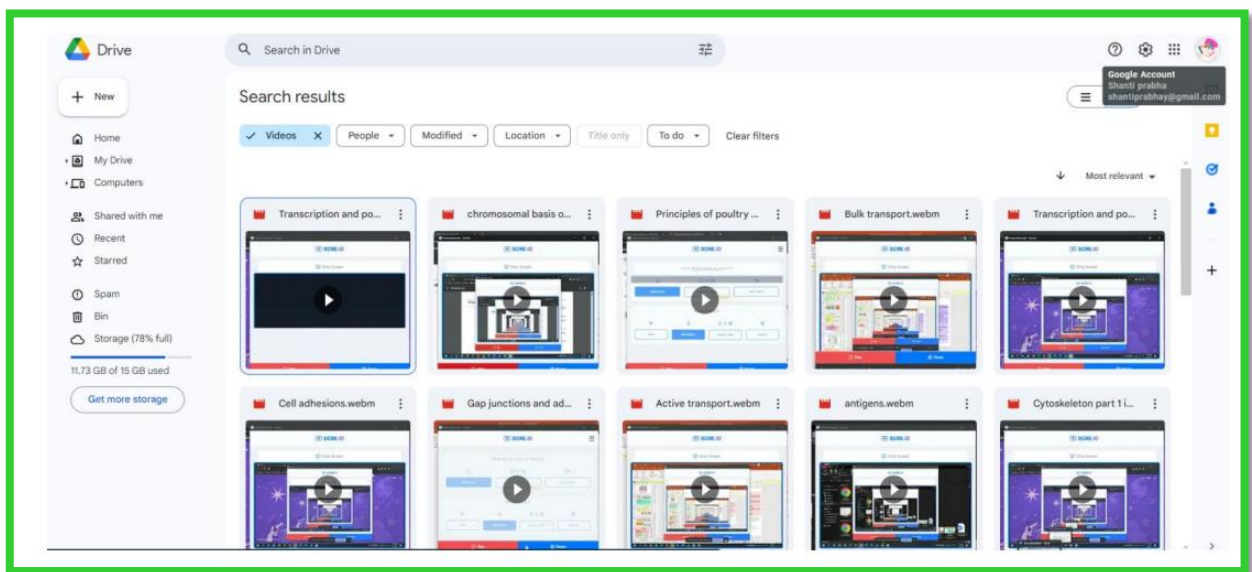
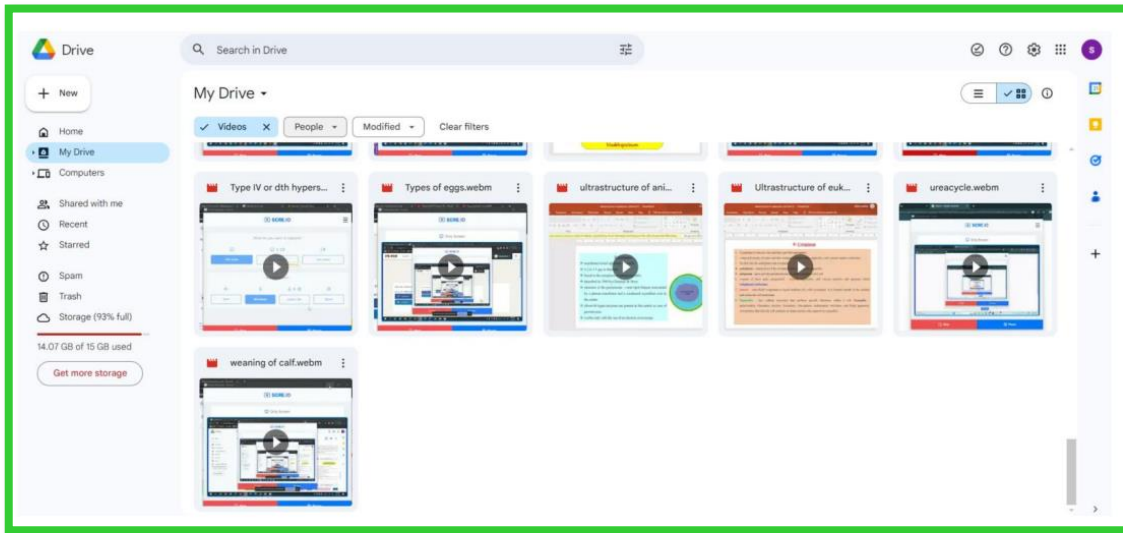
Recorded Video Explanations and PPTs

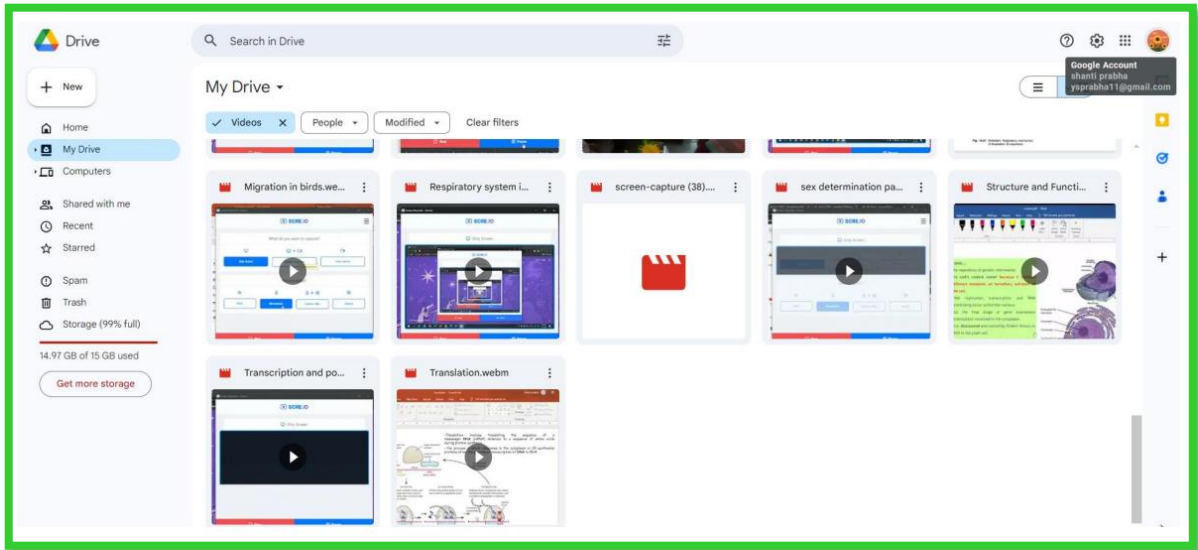
on

Cell Biology, Genetics and Evolution









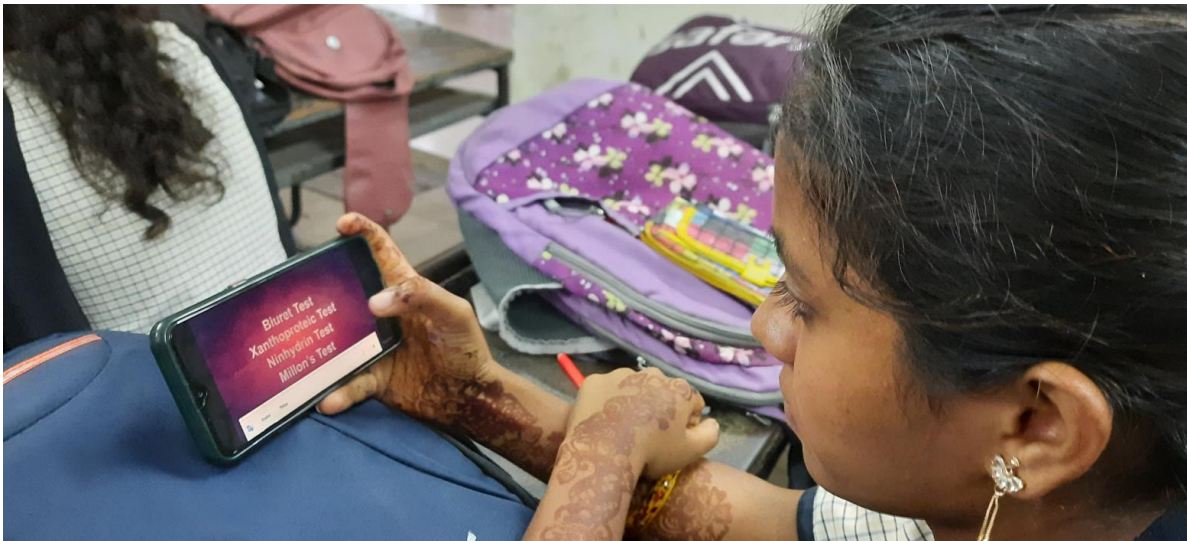
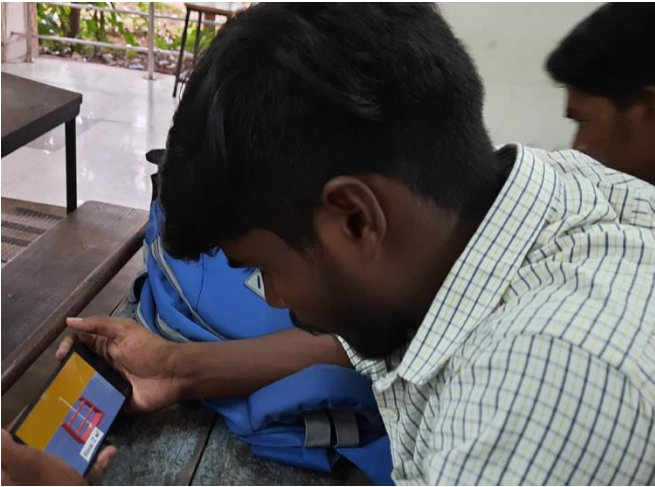
Pedogogy Strategies (I to X)

PI Lecture

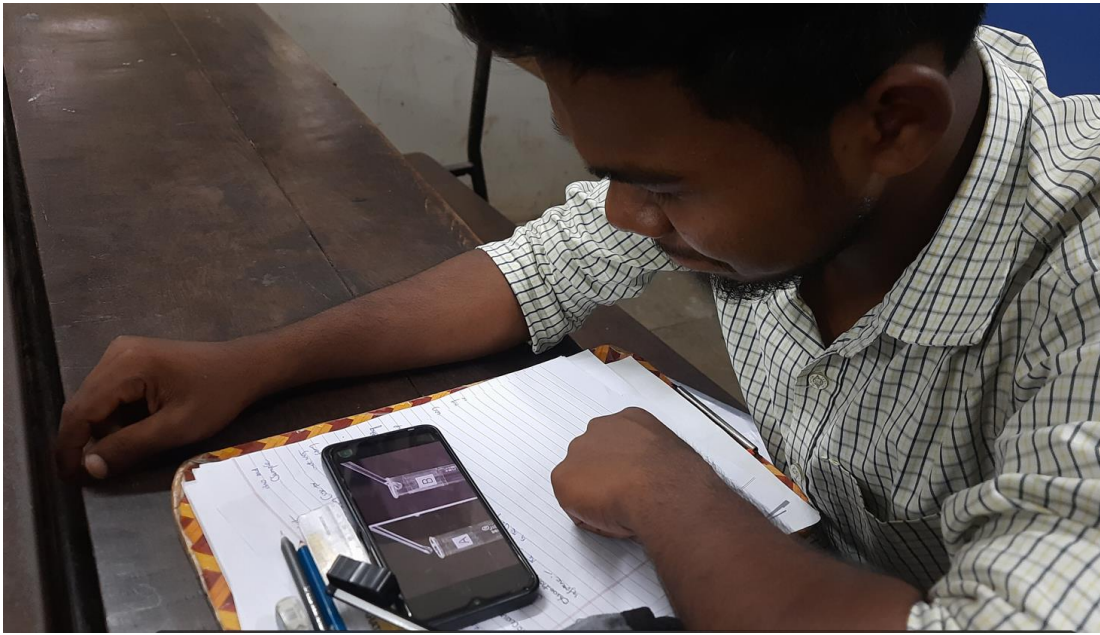


Lecture method of Pedogogy using PPTs

P II Demonstration

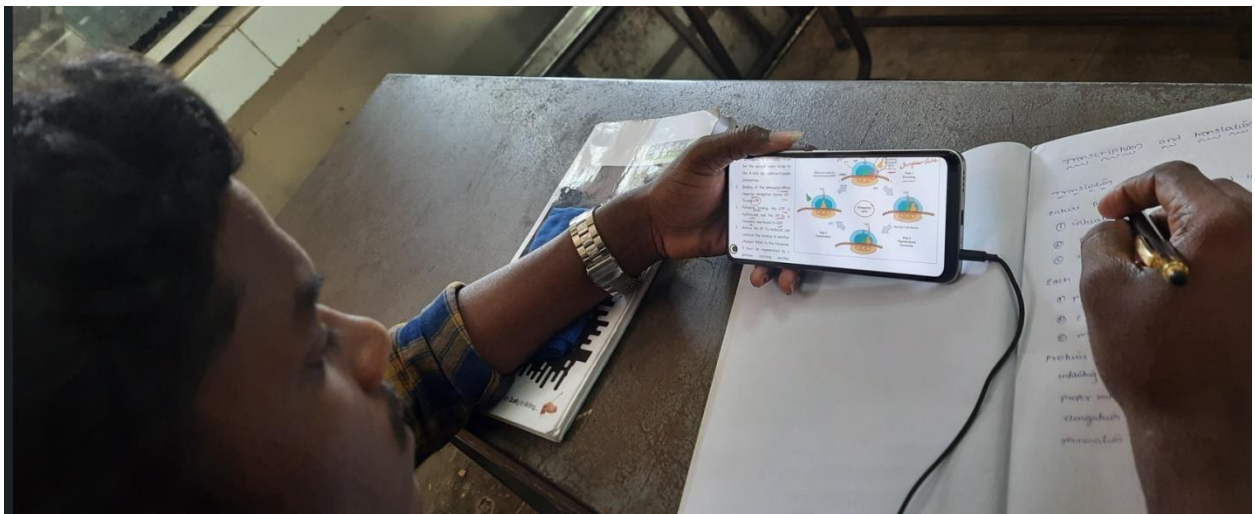


Virtual demonstration using E-Resources



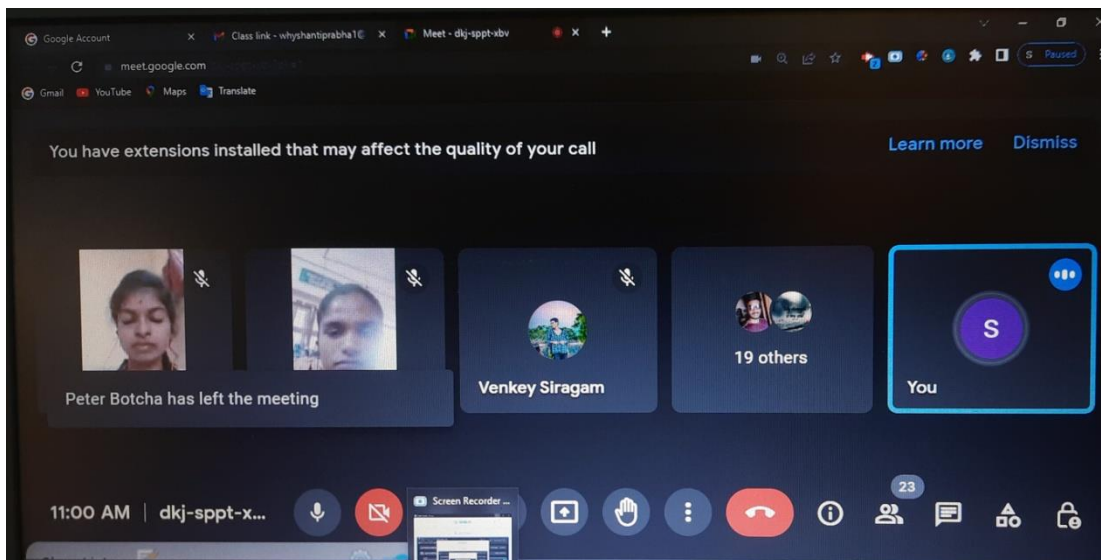
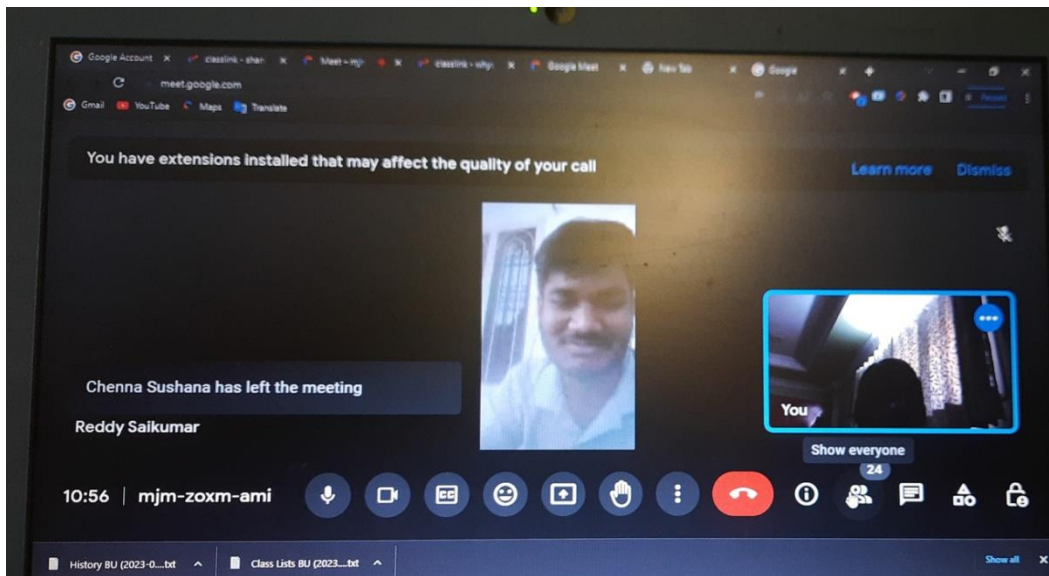
Virtual demonstration using E-Resources

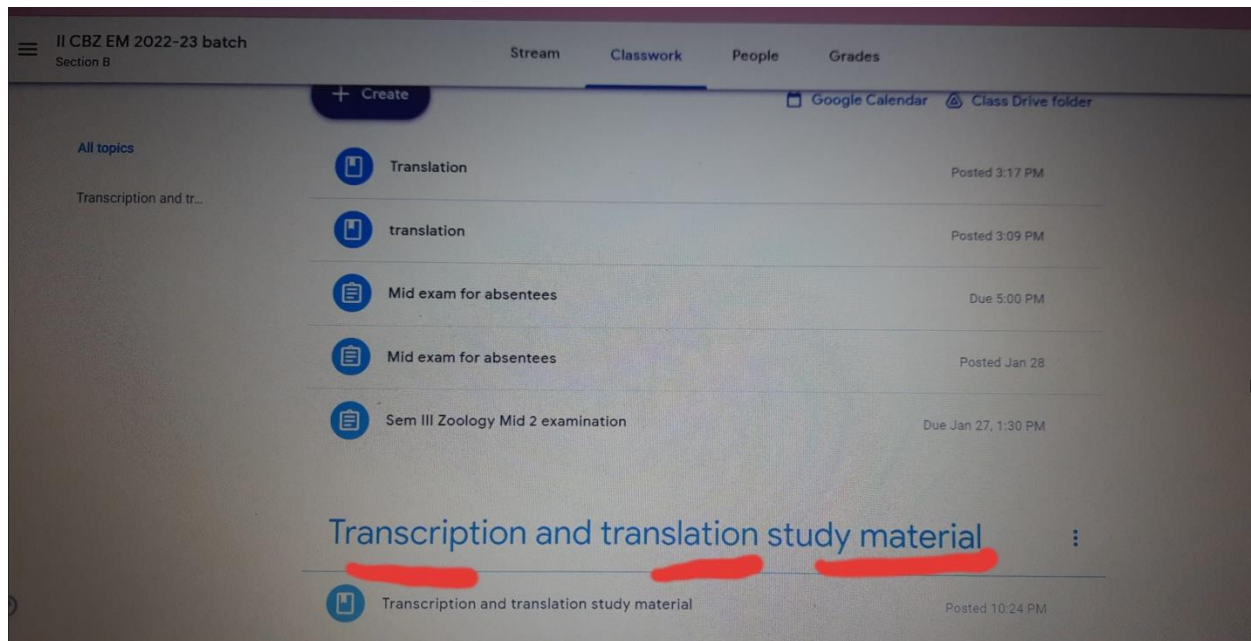
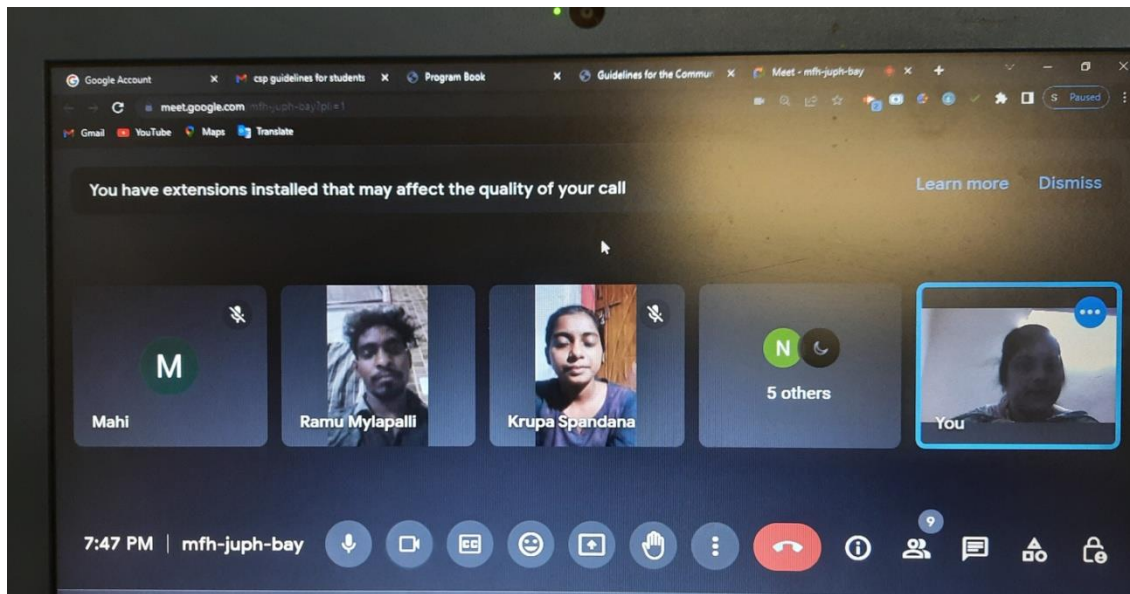
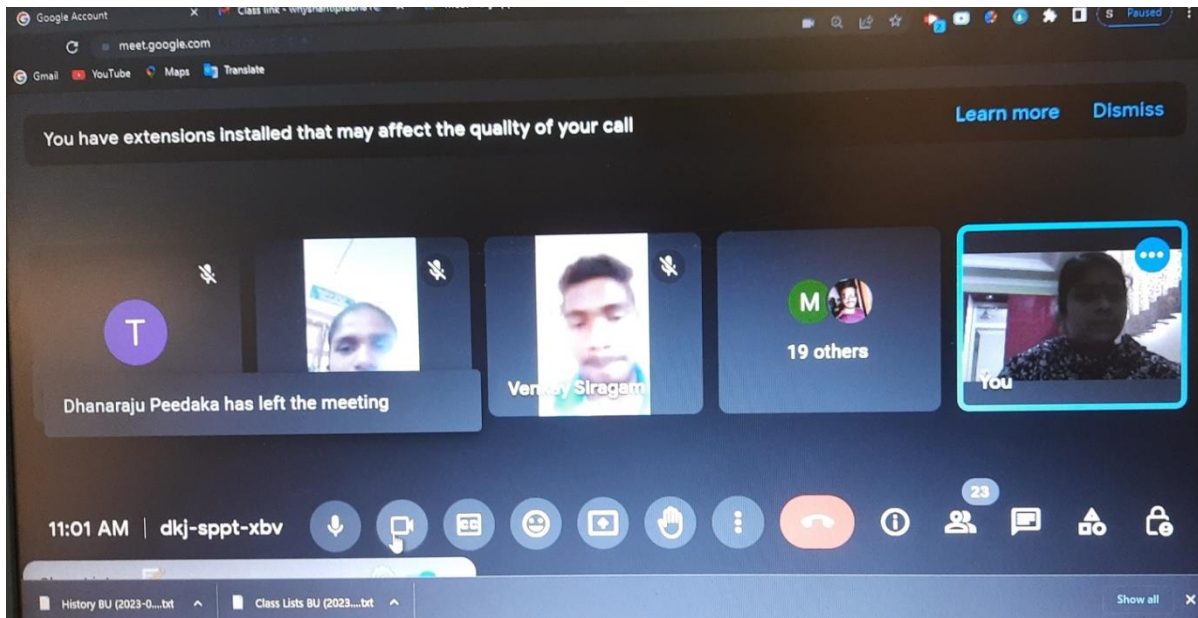
P V Audio and Video



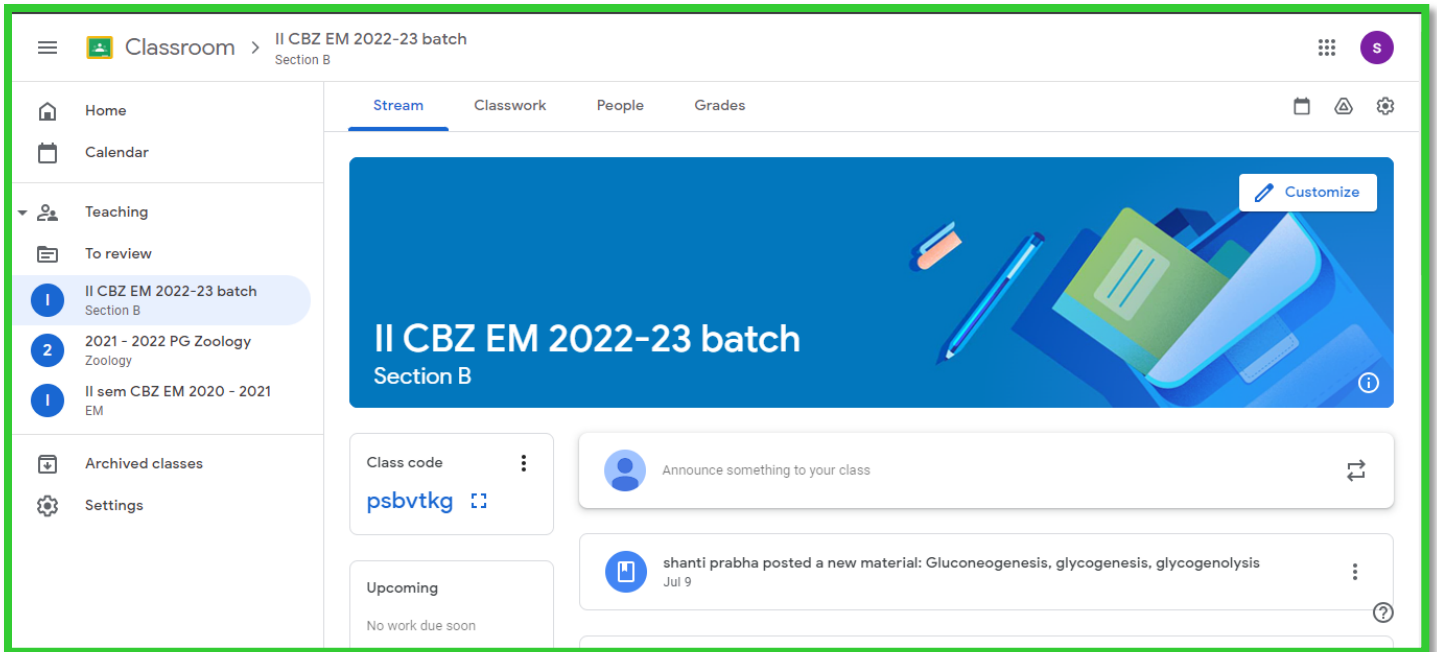


P VI Virtual or online learning

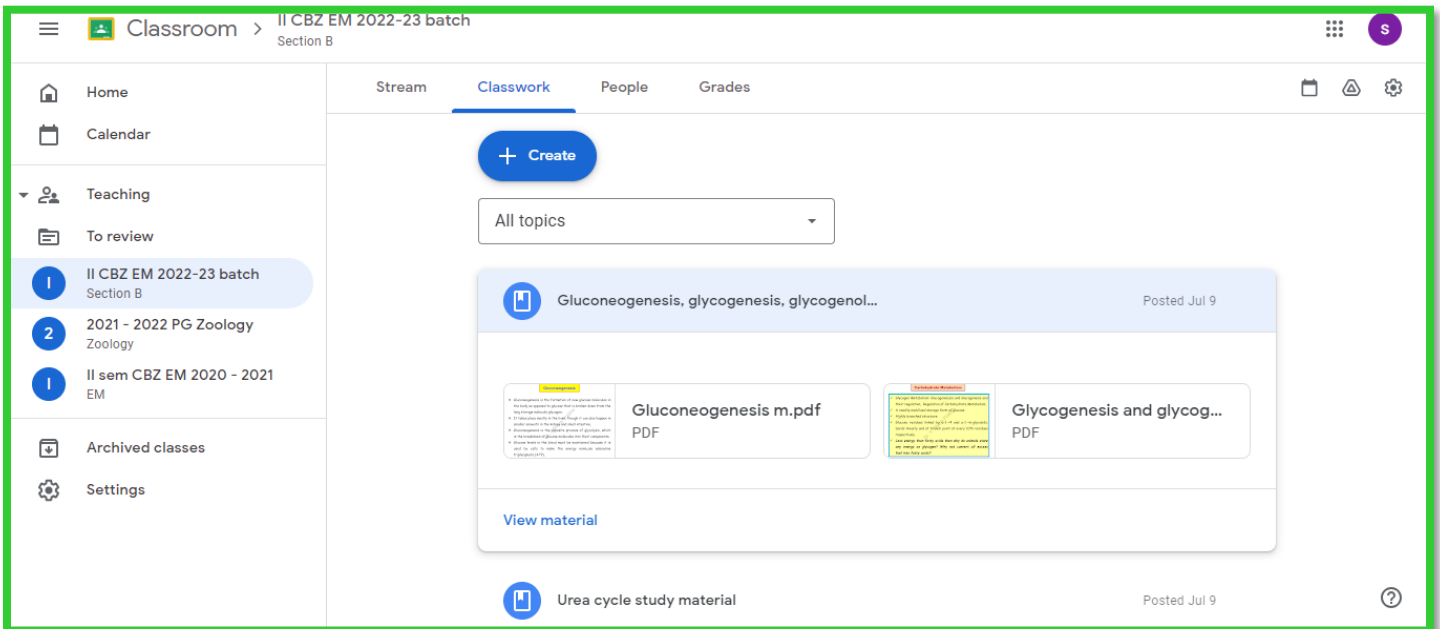




Usage of Google classroom as LMS



This screenshot shows the 'Stream' view of a Google Classroom page for 'II CBZ EM 2022-23 batch Section B'. The left sidebar contains navigation options: Home, Calendar, Teaching (with sub-items 'To review' and a list of classes), Archived classes, and Settings. The main content area features a blue header banner with the text 'II CBZ EM 2022-23 batch Section B' and a 'Customize' button. Below the banner, there is a 'Class code' field displaying 'psbvtkg' with a copy icon. An announcement box says 'Announce something to your class'. A post from 'shanti prabha' dated Jul 9 is visible, titled 'shanti prabha posted a new material: Gluconeogenesis, glycogenesis, glycogenolysis'. An 'Upcoming' section at the bottom indicates 'No work due soon'.



This screenshot shows the 'Classwork' view of the same Google Classroom page. The left sidebar is identical to the Stream view. The main content area has a '+ Create' button and a dropdown menu set to 'All topics'. A post from 'shanti prabha' dated Jul 9 is shown, titled 'Gluconeogenesis, glycogenesis, glycogenol...'. This post contains two PDF materials: 'Gluconeogenesis m.pdf' and 'Glycogenesis and glycol... PDF'. A 'View material' link is present below the materials. Another post titled 'Urea cycle study material' is partially visible at the bottom, dated Jul 9.

Classroom > II CBZ EM 2022-23 batch
Section B

Home | Calendar | Teaching | To review | II CBZ EM 2022-23 batch Section B | 2021 - 2022 PG Zoology Zoology | II sem CBZ EM 2020 - 2021 EM | Archived classes | Settings

Stream | **Classwork** | People | Grades

- Urea cycle study material (Posted Jul 9)
- Urea cycle** (Posted Jul 9)
 - Watch the video and prepare the answer.
 - ureacycle.webm Video
 - [View material](#)
- Properties of amino acids (Posted Jul 4)
- Sem 4 p4 Zoology model qp and question b... (Posted Jul 4)

Classroom > II CBZ EM 2022-23 batch
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Home | Calendar | Teaching | To review | II CBZ EM 2022-23 batch Section B | 2021 - 2022 PG Zoology Zoology | II sem CBZ EM 2020 - 2021 EM | Archived classes | Settings

Stream | **Classwork** | People | Grades

All topics

- Gluconeogenesis, glycogenesis, glycogenol... (Posted Jul 9)
- Urea cycle study material (Posted Jul 9)
- Urea cycle (Posted Jul 9)
- Properties of amino acids** (Posted Jul 4)
 - Watch the explanation and prepare an essay.
 - properties of amino acid... Video

Classroom > II CBZ EM 2022-23 batch
Section B

Home | Calendar | Teaching | To review | II CBZ EM 2022-23 batch Section B | 2021 - 2022 PG Zoology Zoology | II sem CBZ EM 2020 - 2021 EM | Archived classes | Settings

Stream | **Classwork** | People | Grades

- Urea cycle (Posted Jul 9)
- Properties of amino acids (Posted Jul 4)
- Sem 4 p4 Zoology model qp and question b...** (Posted Jul 4)
 - Sem 4 p4 Zoology questi... PDF
 - [View material](#)
- Mechanism of action of enzymes (Posted Jul 4)
- Sem 4 paper 4 mid 2 examination (Due Jul 3, 1:00 PM)

Classroom > II CBZ EM 2022-23 batch
Section B

Home | Calendar | Teaching | To review | II CBZ EM 2022-23 batch Section B | 2021 - 2022 PG Zoology Zoology | II sem CBZ EM 2020 - 2021 EM | Archived classes | Settings

Stream | **Classwork** | People | Grades

Properties of amino acids | Posted Jul 4

Sem 4 p4 Zoology model qp and question b... | Posted Jul 4

Mechanism of action of enzymes | Posted Jul 4

Watch the video and prepare an essay with neat labelled diagrams

Mechanism of action of e...
Video

View material

Classroom > II CBZ EM 2022-23 batch
Section B

Home | Calendar | Teaching | To review | II CBZ EM 2022-23 batch Section B | 2021 - 2022 PG Zoology Zoology | II sem CBZ EM 2020 - 2021 EM | Archived classes | Settings

Stream | **Classwork** | People | Grades

Sem 4 paper 4 mid 2 examination | Due Jul 3, 1:00 PM

Classification of lipids study material | Posted May 15

Study material

Classification of lipids w...
PDF

classification of enzymes...
PDF

View material

Classroom > II CBZ EM 2022-23 batch
Section B

Home | Calendar | Teaching | To review | II CBZ EM 2022-23 batch Section B | 2021 - 2022 PG Zoology Zoology | II sem CBZ EM 2020 - 2021 EM | Archived classes | Settings

Stream | **Classwork** | People | Grades

Sem 4 paper 4 mid 2 examination | Due Jul 3, 1:00 PM

Classification of lipids study material | Posted May 15

Classification of enzymes | Posted May 13

classification of enzymes...
Video

View material

Classification of lipids | Posted May 13

Classroom > II CBZ EM 2022-23 batch Section B

Home Calendar Teaching To review II CBZ EM 2022-23 batch Section B 2021 - 2022 PG Zoology Zoology II sem CBZ EM 2020 - 2021 EM Archived classes Settings

Stream **Classwork** People Grades

Classification of lipids study material Posted May 15

Classification of enzymes Posted May 13

Classification of lipids Posted May 13

Video explanation

Classification of lipids.w... Video

View material

View more

Classroom > II CBZ EM 2022-23 batch Section B

Home Calendar Teaching To review II CBZ EM 2022-23 batch Section B 2021 - 2022 PG Zoology Zoology II sem CBZ EM 2020 - 2021 EM Archived classes Settings

Stream **Classwork** People Grades

Oogenesis

Oogenesis

shanti prabha posted a new material: Oogenesis study material

Posted Apr 19

Oogenesis wm.pdf PDF

Add class comment...

Classroom > II CBZ EM 2022-23 batch Section B

Home Calendar Teaching To review II CBZ EM 2022-23 batch Section B 2021 - 2022 PG Zoology Zoology II sem CBZ EM 2020 - 2021 EM Archived classes Settings

Stream Classwork People Grades

May 11

shanti prabha posted a new material: Carbohydrates ▶ 35 students Apr 27

shanti prabha posted a new material: Oogenesis study material Apr 19

shanti prabha posted a new material: Muscle chapter ▶ 35 students Apr 17

shanti prabha posted a new material: Structure and functions of carbohydrates ▶ 34 students Apr 4

shanti prabha posted a new material: Qualitative analysis of proteins ▶ 13 students

https://classroom.google.com/w/16...

Classroom > II CBZ EM 2022-23 batch
Section B

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2 2021 - 2022 PG Zoology Zoology

1 II sem CBZ EM 2020 - 2021 EM

Archived classes | Settings

Stream | Classwork | People | Grades

shanti prabha posted a new material: Pulmonary ventilation and Transport of ... ▶ 33 students Mar 28

shanti prabha posted a new material: Carbohydrates tests ▶ 1 student Mar 27

shanti prabha posted a new material: Carbohydrates tests ▶ 1 student Mar 27

shanti prabha posted a new material: Qualitative tests for carbohydrates ▶ 9 students Mar 27

shanti prabha posted a new material: Embryology 2 chapters ▶ 33 students

Classroom > II CBZ EM 2022-23 batch
Section B

Home | Calendar | Teaching | To review

1 II CBZ EM 2022-23 batch Section B

2 2021 - 2022 PG Zoology Zoology

1 II sem CBZ EM 2020 - 2021 EM

Archived classes | Settings

Stream | Classwork | People | Grades

shanti prabha posted a new material: Spermatogenesis study material ▶ 33 students Mar 20

shanti prabha posted a new material: Process of digestion ▶ 30 students Mar 9

shanti prabha posted a new material: Lamarkism Feb 8

shanti prabha posted a new material: Lamarkism Feb 8

Classroom > II CBZ EM 2022-23 batch
Section B

Home | Calendar | Teaching | To review

1 II CBZ EM 2022-23 batch Section B

2 2021 - 2022 PG Zoology Zoology

1 II sem CBZ EM 2020 - 2021 EM

Archived classes | Settings

Translation

shanti prabha · Feb 4

Translation.webm
Video

Class comments

Add class comment...

Home
Calendar

Teaching
To review

- 1 II CBZ EM 2022-23 batch
Section B
- 2 2021 - 2022 PG Zoology
Zoology
- 1 II sem CBZ EM 2020 - 2021
EM

Archived classes
Settings

Transcription and translation study material

shanti prabha · Feb 3



Transcription WM.pdf
PDF



Translation.pdf
PDF

Class comments



Add class comment...



**ONLINE CONTENT GENERATION
TEACHING LEARNING MATERIALS**

**By
Dr. Karri Rama Rao
Department of Zoology**



1. Feeding Rates on Growth, Feed Utilization and Nutrient Absorption, Protein and Energy Requirement for Maximum Growth

https://drive.google.com/drive/folders/1SaiCQ8lz0j3k0LEmH-Uh8c_7WgjXwQ7L





GOVERNMENT OF ANDHRA PRADESH
COMMISSIONERATE OF COLLEGIATE EDUCATION



Feeding Rates on Growth, Feed Utilization and Nutrient Absorption, Protein and Energy Requirement for Maximum Growth

AQUACULTURE

Dr. Karri. Rama Rao
M.Sc; M. Ed; Ph.D; PDF; D. Lit


Govt. Degree College, Tekkali
Email. Id : drkarramarao@gmail.com

Learn more at <http://cclms.ap.gov.in>

The feeding rate has a profound impact on practices and it has also a profound impact on fish health and survival. Water temperature is a major influence on feeding rate. Each species has an optimum temperature range in which the fish can grow.

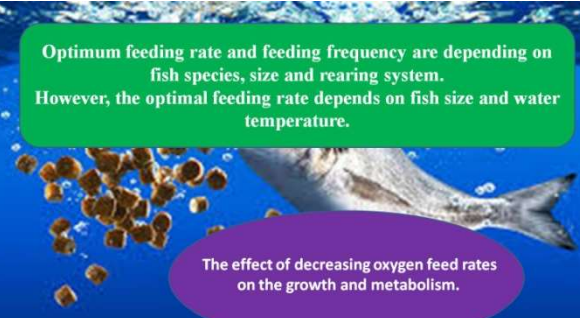
Each species has an optimum water temperature range in which the fish can grow.

maximum growth. All species are affected the growth of which are characterized by an ideal range of temperature. temperature and fish size are 2 important factors affecting the growth of fish. Feeding rate, water.



Optimum feeding rate and feeding frequency are depending on fish species, size and rearing system. However, the optimal feeding rate depends on fish size and water temperature.

The effect of decreasing oxygen feed rates on the growth and metabolism.



2. Healthy seed production, Good Feed for health, Probiotics in health management Multiple choice questions

https://drive.google.com/drive/folders/1SaiCO8lz0j3k0LEmH-Uh8c_7WgjXwQ7L



GOVERNMENT OF ANDHRA PRADESH
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Healthy seed production, Good Feed for health, Probiotics in health management

AQUACULTURE

Dr. Karri. Rama Rao
M.Sc., M. Ed., Ph.D., P.D.F., D. Litt.

Govt. Degree College, Tekkali
Email. Id : drkarramarao@gmail.com

Learn more at <http://ccelms-ap.gov.in>

Objectives

- To know the good quality brood stock for both traditional and emerging species through domestication, genetic, nutritional intervention and the implementation.
- To study the improve quality and production of seed stock through methods of spawning
- The role of animal nutrition in improving animal health
- To know the specific nutritional requirements for health
- To understand the positive effects of Probiotics on health management
- To use of Probiotics efficiency ratio in food consumption

Introduction

Most of the Asian countries have developed and refined seed production and farming techniques for major commercially important aquaculture species and are now more aware of the merits of using quality seeds in aquaculture.

Fish and shrimp have specific nutritional requirements like proteins, fats, carbohydrates, vitamins and minerals.

Probiotics in aquaculture are an established management tool for improving gut health and environmental quality. There are many different probiotics were developed in aquaculture industry after Blue revolution

Healthy seed production

The quality seed is a fundamental pre-requisite for sustainable and successful aquaculture. Seed which are active, healthy, clean appearance, uniform sized fry, fingerlings or juveniles, potential for high survival, better growth, no disease usually fit the definition of good quality seed, irrespective of the species.

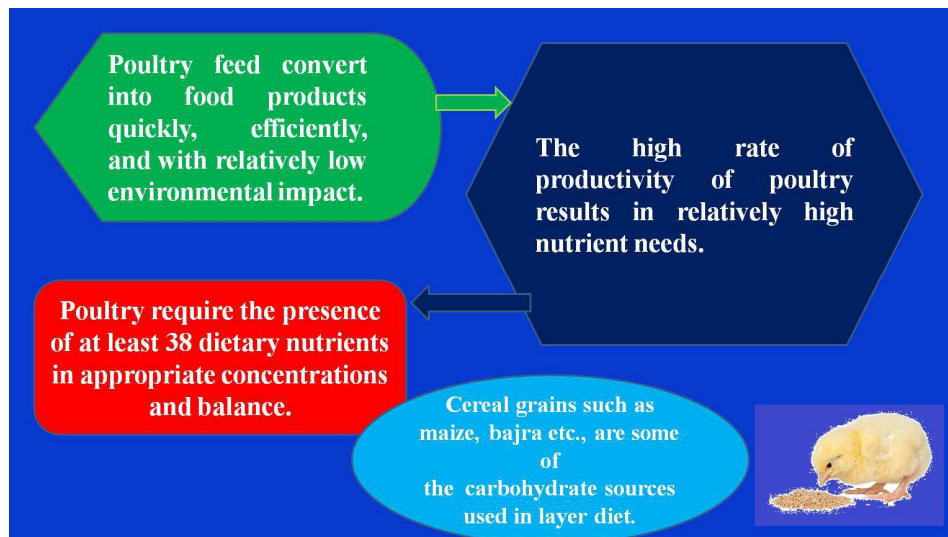
Collection of fish, shrimp, molluscan and other aquatic organisms seed life stages. Wild seed so many disadvantages comparatively to hatchery seed for stocking in aqua farming.





(i) Methods of spawning - natural spawning, hormone injection
(ii) Spawning of crustaceans: maturation and induced spawning of shrimps and prawns; eye ablation

(iii) Methods of induced spawning of oysters, mussels and other molluscs; manipulation of temperature in oyster spawning.
(iv) Induced breeding is done for artificial propagation of fish.
(v) There is an increasing need to develop artificial reproduction technology for high commercially valuable species and consequently the production of fingerlings for fish culture.

3. Nutrient requirements for different stages of Layers and Broilers

https://drive.google.com/drive/folders/1bCsqRn5g_RR8C4TLN2Knfp_19GJkrwi8



 <p>Chicks need a high amount of protein, energy, vitamins and minerals for their starter period.</p> <p>They need more carbohydrates, proteins, vitamins and minerals to maintain good health.</p>  <p>Calcium, phosphorus are needed for the chick to have strong bones and develop the body correctly.</p> 	<p>Birds drink water about twice by weight of feed consumed.</p> <p>Water consumption is affected by environmental temperature. Water regulates the animal's body temperature and flushing out the unwanted waste.</p> <p>Many factors influence water intake, including environmental temperature, relative humidity, salt and protein levels of the diet, birds' productivity, egg production. Cool, clean water, uncontaminated by high levels of minerals must be available at all times.</p> 
---	---

4. లేయర్ మరియు బ్రాయిలర్ కోళ్ల పెరుగుదలకవసరమైన పోషకాంశాలు

https://drive.google.com/drive/folders/1bCsgRn5g_RR8C4TLN2Knfp_I9GJkrwj8



GOVERNMENT OF ANDHRA PRADESH
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లేయర్ మరియు బ్రాయిలర్ కోళ్ల పెరుగుదలకవసరమైన పోషకాంశాలు

జంతు శాస్త్రము

డా. కర్తి. రామారావు
M.Sc; M. Ed; Ph.D; PDF; D. Lit
Govt. Degree College, Tekkali
Email. Id : drkarramarao@gmail.com

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2. మాంసకృత్తులు

మాంసకృత్తుల్లో ముఖ్యమైనవి అపైసే అపూలు. సుమారు 23 అపైసే అపూలు కోళ్ళ శరీరంలో మాంసకృత్తుల తయారీకి ఉపయోగపడతాయి.

కాని వీటిలో ఆర్జినిన్, గైసిన్, హైస్టడీన్, థైరోసిన్, మిథయోసైన్, లైసిన్ మొదలైనవి.

కాబట్టి వీటిని దాణాలో కలపడం ద్వారా కోళ్ళకు అందించాల్సి ఉంటుంది. సాధారణంగా కోళ్ళలో, లైసిన్, మిథయోసైన్ లోటు కనిపిస్తుంది. మాంసకృత్తులు రెండు రకాలు.

అపైసే అపూలు శరీరంలో తయారుకావు.

1. కార్బోహైడ్రేట్లు :

కోళ్ళ యజమాన్యములో దాణాలో వాడే వివిధ రకాల పోషక పదార్థములు

కార్బోహైడ్రేట్లు శక్తిని విడుదలచేసే మూలకాలు ఇవి కోళ్ళకు చురుకుదనాన్ని మరియు వేడిని కలుగజేస్తాయి.

కార్బోహైడ్రేట్లు కోళ్ళలో తేలికగా తీర్గమయ్యే ఆహార పదార్థము.

మొక్కజొన్నలు, గోధుమలు, సజ్జలు, బియ్యము, బార్లీ మొక్కజొన్నలు, పొద్దున, మంది, రుచికరమైన, బాగా తీర్గమయ్యే ఆహారపదార్థము.

కోళ్ళను విడిగా పెంపెటప్పుడు అవి ఆహారాన్ని స్వీకరణగా సకరించుకుంటాయి.

కోళ్ళను విడిగా పెంపెటప్పుడు అవి ఆహారాన్ని స్వీకరణగా సకరించుకుంటాయి.

శాస్త్రీయ వాడే ఆహార పదార్థములలో తృణదాణ్యాలు, వాటి యొక్క ఉత్పన్నకాలు, వృక్ష, జంతు సంబంధమైన మూలకాలు ముఖ్యమైనవి.

కేంద్రీకృత విధానములో మంచి దిగుబడికి కోళ్ళ పోషణ, దాణా విషయములో ప్రత్యేక శ్రద్ధ కనబర్చాలి.

అప్పుడే మాంసము మరియు గుడ్ల దిగుబడి అధికముగా వస్తుంది.

వృక్ష సంబంధ మాంసకృత్తులు

వృక్ష సంబంధ దాణాలో వాడే పోయాసిండి, వేరుశనగపిండి, నువ్వుల పిండి, ఆవాలపెక్కి, పొద్దుతిరుగుడు వువ్వుల పిండి, పత్తిగింజలపిండి ద్వారా లభ్యమవుతాయి.

వీటిని 18-22% వరకు దాణాలో కలపవచ్చు.


జంతు సంబంధ మాంసకృత్తులు

వేపల పొడి, మాంసం పొడి, పట్టు పురుగుల పొడి, కాలేయపొడి ద్వారా జంతు సంబంధ మాంసకృత్తులు లభ్యమవుతాయి.

వీటిని 5-8% వరకు దాణాలో కలుపవచ్చు.

5. Principles of Poultry Feeding

<https://drive.google.com/drive/folders/17DA42c3bdTA32LyRq0KoiHw6rHj2BDYK>



GOVERNMENT OF ANDHRA PRADESH
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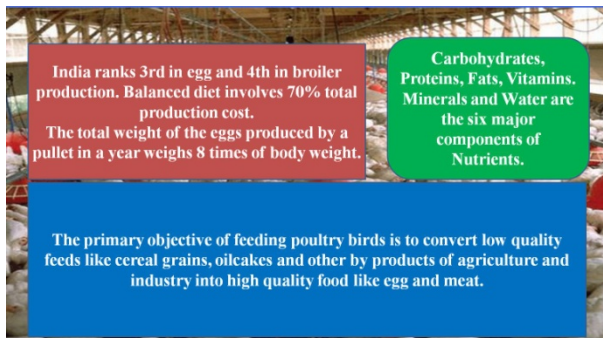
Principles of poultry feeding

ZOOLOGY

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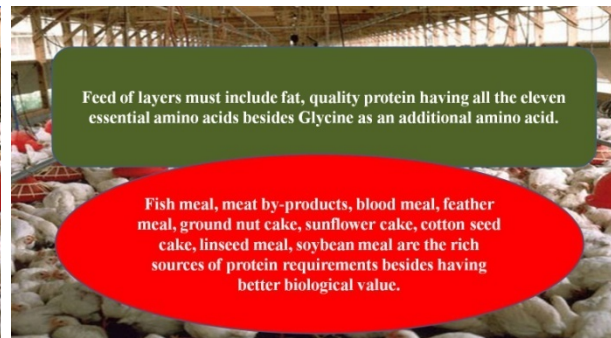
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India ranks 3rd in egg and 4th in broiler production. Balanced diet involves 70% total production cost. The total weight of the eggs produced by a pullet in a year weighs 8 times of body weight.

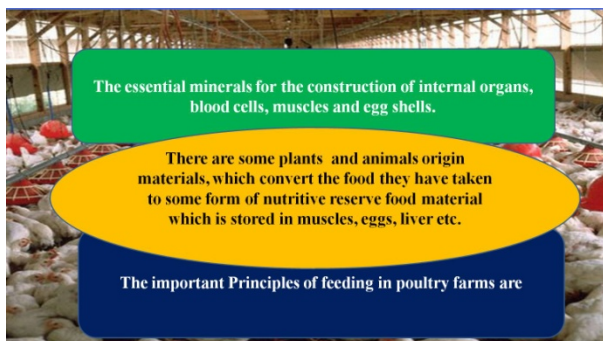
Carbohydrates, Proteins, Fats, Vitamins, Minerals and Water are the six major components of Nutrients.

The primary objective of feeding poultry birds is to convert low quality feeds like cereal grains, oilcakes and other by products of agriculture and industry into high quality food like egg and meat.



Feed of layers must include fat, quality protein having all the eleven essential amino acids besides Glycine as an additional amino acid.

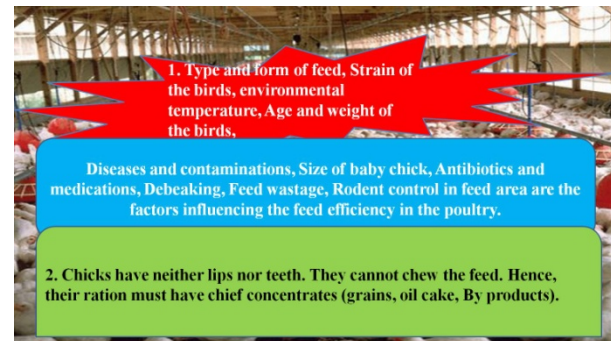
Fish meal, meat by-products, blood meal, feather meal, ground nut cake, sunflower cake, cotton seed cake, linseed meal, soybean meal are the rich sources of protein requirements besides having better biological value.



The essential minerals for the construction of internal organs, blood cells, muscles and egg shells.

There are some plants and animals origin materials, which convert the food they have taken to some form of nutritive reserve food material which is stored in muscles, eggs, liver etc.

The important Principles of feeding in poultry farms are



1. Type and form of feed, Strain of the birds, environmental temperature, Age and weight of the birds.

Diseases and contaminations, Size of baby chick, Antibiotics and medications, Debeaking, Feed wastage, Rodent control in feed area are the factors influencing the feed efficiency in the poultry.

2. Chicks have neither lips nor teeth. They cannot chew the feed. Hence, their ration must have chief concentrates (grains, oil cake, By products).

6. కోళ్ళ పెంపకంలో పాటించవలసిన ఆహార నియమాలు

https://drive.google.com/drive/folders/1bCsqRn5g_RR8C4TLN2Knfp_I9GJkrwj8

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కోళ్ళ పెంపకంలో పాటించవలసిన ఆహార నియమాలు
జంతు శాస్త్రము

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కోళ్ళ పరిశ్రమ ఉత్పత్తి వ్యయంలో 70 శాతము ఖర్చు దాణాచలననే అవుతుంది. కోళ్ళ దాణాలో పోషక విలువలు ఎక్కువైనా, తక్కువైనా దాని ప్రభావం ఉత్పాదకశక్తి పై గణనీయంగా ఉంటుంది.

లేయర్స్ కు ట్రాయిలర్స్ కు సరిచంద పోషక విద్యాలనను తగుపాళ్ళలో అందిస్తే మాంసం, గ్రుడ్ల దిగుబడి బాగా వుంటుంది.

అందువల్ల దాణా తయారీలో, వినియోగం విషయంలో అత్యంత శ్రద్ధ వహించాలి. తక్కువ నాణ్యత కలిగిన తృణదాణ్యాలు, సూనె చక్కలు మరియు ఇతర పరిశ్రమ ఉత్పన్నాలను కలిపి అధిక నాణ్యత కలిగిన మేతగా రూపొందించడం ప్రథమ సూత్రము.

కోళ్ళ పరిశ్రమ ప్రోత్సాహకరంగా ఉండాలంటే సరియైన నాణ్యతగల దాణాను అందచేయటం మరియు మేతలో పొదుపు పాటించడం అత్యవసరం.

ఎందుకంటే కోళ్ళ పెంపకంలో దాదాపు 70-75% వరకు మేతకు మాత్రమే ఖర్చు అవుతుంది.

ఇటీవలి కాలంలో కోళ్ళ పరిశ్రమ పెరిగినంత వేగంగా కోళ్ళమేతకు కావలసిన ముడిసరుకులు దిగుబడి అభివృద్ధి కాకపోవటం వలన మేతరలు విపరీతంగా పెరిగిపోతుంది.

కోళ్ళలో అధిక జీవక్రియరలు ఉంటుంది. అందుకు అనుగుణంగా, వాటి దాణాలో మార్పులు, చేర్పులు చేయాలి.

మాంసం దిగుబడికి, గుడ్ల ఉత్పత్తి దృష్ట్యా శక్తినిచ్చే మాంసకృత్తులు, ఇతర పోషకాల విస్తృతి సరిగా వుండాలి.

వారావరణ మార్పులను కోళ్ళు అంతగా భరించలేవు. అందువలన ఒత్తిడిని నివారించి, తదనుగుణంగా పోషకషుద్ధాల్ని సరిచేయాలి.

కోళ్ళ పెంపకం లో పాటించవలసిన ఆహార నియమాలులో ముఖ్యమైనవి.

(1) పెంచే కోళ్ళజాతి, వాటిని పెంచే పద్ధతి, ఏయిస్సు, శరీరం, ఉత్పాదక సామర్థ్యం, సిజన్, తినే మేత పరిమాణం, మాంసం లేదా గుడ్ల ఉత్పత్తి మొదలగు వాటిని దృష్టిలో పెట్టుకొని ట్రాయిలర్స్ కు, లేయర్స్ కు కూడా దాణా రూపొందించుకోవలసి వుంటుంది.

(2) కోళ్ళకు పెదవులు మరియు దంతాలు వుండవు, అందువల్ల వీటి దాణాలో గింజలు, సూనె చక్కలు ఉండాలి.

7. Structure of Elphidium-Difference between Megalosporic and Microsporic (Telugu)

<https://drive.google.com/drive/folders/1vuF99d16ZTDD3VnKHSLORkrK2IKDBrdK>



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ఎల్ఫీడియం - నిర్మాణము మరియు మెగలోస్పొరిక్, మైక్రోస్పొరిక్ జీవుల మధ్య భేదములు

జంతు శాస్త్రం

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<p style="text-align: center; color: red;">నిర్మాణము</p> <p>❖ ఎల్ఫీడియం జీవి సూక్ష్మ నిర్మాణము కలిగి యున్నప్పటికీ సామాన్యనేత్రముతో చూడగలము.</p> <p>❖ కర్మరము, జీవపదార్థము, మిథ్యాపాదములు ఎల్ఫీడియంలోని ముఖ్య భాగములు.</p> <p style="text-align: center; color: red;">కర్మరము</p> <p>❖ ఎల్ఫీడియం యొక్క కర్మరము పరిమాణములో తప్ప అన్ని విధములుగా మలస్కాజీవుల కర్మరములను పోలియుండును.</p> <p>❖ ఈ కర్మరము లేతపసుపు వర్ణములో గుండ్రముగా వుండి దృఢముగాను అర్ధపారదర్శకముగాను వుండును.</p>	 <p style="text-align: center; font-size: small;">అర్ధపారదర్శకము</p>  <p style="text-align: center; font-size: small;">కర్మరము</p> <div style="background-color: red; color: white; padding: 5px; margin-top: 10px;"> <p>❑ ఉప్పునీటి కయ్యలలో కూడ ఈ జీవులు లభ్యమగును. పాలీస్టామెల్లా జీవికరము ఏకకణ నిర్మితమై కర్మరసహితమై యుండును.</p> <p>❑ ఈ లక్షణము వలన జీవులు ఇతర ప్రోటోజోవస్ల నుండి భిన్నముగా యుండును.</p> <p>❑ వీటి కర్మరములు అట్లాంటిక్ మహాసముద్రము అడుగున 1/3 వంతు ఏర్పడి బురదతో ఒక చొరవల యుండును.</p> <p>❑ ఈ సారామిని ఫెరా జీవులు ప్రీకేంబ్రియస్ కాలములో ఏర్పడి, నేటి వరకు జీవించియున్నవి.</p> </div>
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<p style="text-align: center; color: red;">ఎల్ఫీడియం - నిర్మాణము (పాలీస్టామెల్లా)</p> <div style="background-color: red; color: white; padding: 5px; margin-bottom: 10px;"> <p>❑ ఎల్ఫీడియంను సాధారణముగా పాలీస్టామెల్లా అని కూడా అంటారు.</p> <p>❑ ఈ జీవి సముద్ర ప్రాంతములలో తీరప్రాంతములనుండి 300 ఫాతము ల లోతు వరకు విరివిగా లభించును.</p> <p>❑ ఈ జీవులు సముద్రములోనున్న చిన్న చిన్న మొక్కల మొదళ్ళలో ప్రాకూతా జీవించును.</p> </div> <div style="background-color: red; color: white; padding: 5px; margin-bottom: 10px;"> <p>వర్ణము ప్రోటోజోవా రంగు రైకోపోడా క్రమము ఫోరామినిఫెరా ప్రజాతి ఎల్ఫీడియం జాతి కర్మరము</p> </div> 	 <div style="background-color: orange; color: white; padding: 5px; margin-bottom: 10px;"> <p>❖ ఈ కర్మరము ఇంచుమించు 90% కాల్షియం కాల్షినేటుతోను మిగిలిన 10% మెగ్నీషియం, సిలికాన్ పదార్థములతో నిర్మితమై ఉండును.</p> <p>❖ కర్మరము రంధ్రయుతమైయుండి, ఆ రంధ్రముల నుండి మిథ్యా పాదములు బయటకు ఏర్పడి విస్తరించి ఉండును.</p> </div> <div style="background-color: red; color: white; padding: 5px; margin-bottom: 10px;"> <p>❖ లోపల కర్మరము అడ్డు గోడలద్వారా అనేక గదులుగా విభజింపబడి ఉండును.</p> <p>❖ అందువలన ఈ కర్మరము ను "పాలీథెలమస్" కర్మర ముందురు.</p> </div> <div style="background-color: red; color: white; padding: 5px;"> <p>❖ కర్మరము యొక్క గదులు (అరలు) బల్బువరుపుగా ఒకదాని పైన ఒకటి ఏర్పడి ఉండుటవల్ల, కొత్తగా ఏర్పడినగది అన్నిటికన్నా వెలుపల నిర్మితమై యుండును.</p> <p>❖ అనగా మొట్టమొదట ఏర్పడిన గది అన్ని టికన్నా లోపల ఉండును.</p> </div>  <p style="text-align: center; font-size: small;">కర్మరము</p>
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8. ELPHIDIUM - STRUCTURE AND DIFFERENCES BETWEEN MICROSPHERIC & MEGALOSPHERIC FORMS

<https://drive.google.com/drive/folders/1vuF99d16ZTDD3VnKHSL0RkrK2IKDBrdK>



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Elphidium – Structure and Differences between Microspheric & Megalospheric forms

ZOOLOGY

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STRUCTURE OF ELPHIDIUM (POLYSTOMELLA)

- ❑ Elphidium is also called 'Polystomella' is a 'dimorphic rhizopod'.
- ❑ It is found creeping on Sea weeds to a depth of 300 fathoms.
- ❑ It is a unicellular microscopic protozoan, and 1 mm in diameter.
- ❑ It is pale yellow in colour.
- ❑ It lives in marine water.


Phylum : Protozoa
Class : Rhizopoda
Order : Foraminifera
Genus : *Elphidium*
Species: *crispum*





- ❑ The surface of the shell is chiseled.
- ❑ The chambers of the shell are V-shaped, laid down serially and arranged in a flat spiral in which each whorl of chambers overlaps the previous whorl.
- ❑ The overlapping portions are known as alar processes.

- ❑ Body of Elphidium is covered with a hard and translucent shell made up of calcium carbonate and small amounts of silica and magnesium sulphate.
- ❑ The shell is biconvex, polythalamus or multilocular and perforated.
- ❑ Perforate calcareous shell consisting of 45 to 50 chambers.



- ❖ Due to the overlapping of the chambers only, the last chamber is visible from outside.
- ❖ The hinder margin of each chamber has a row of numerous minute backwardly directed, hollow, blind protoplasmic pockets called retral processes.
- ❖ The chambers are interconnected or communicate with each other as well as with the exterior through minute pores present in the septa.

CCE LMS additional resources

<https://ccelms.ap.gov.in/rusa/additional-resources>

PPTs uploaded for students

<https://www.youtube.com/watch?v=QQxh6gEhSvE&t=143s>

<https://www.youtube.com/watch?v=ufcGrAeDswE&t=205s>

https://www.youtube.com/watch?v=Sd_2MQinCNk&t=129s

<https://www.youtube.com/watch?v=G6GUjNXk3tU&t=66s>

<https://www.youtube.com/watch?v=fAj7ACC9zDY&t=7s>

<https://www.youtube.com/watch?v=HdmoZaI5rig&t=121s>

<https://www.youtube.com/watch?v=Mqyzt0bVTuE&t=6s>

<https://www.youtube.com/watch?v=0hhp4GfQajE&t=39s>

<https://www.youtube.com/watch?v=2T309vlDbLE> Cage culture

<https://www.youtube.com/watch?v=38EDC77jKcE> Plasmodium vivax

<https://www.youtube.com/watch?v=0iKZQYFsKH8> Enterobius vermicularis

<https://www.youtube.com/watch?v=RSyqk7NU6sI> cystosoma haematobium

<https://www.youtube.com/watch?v=KMaInatFlkk> Menstrual cycle

<https://www.youtube.com/watch?v=UzAs7NKaJfo> Entamoeba histolytica

<https://www.youtube.com/watch?v=EKoRCR68ukI> Blood Groups identification (Demo)

ETHIOPIAN REGION

<https://www.youtube.com/watch?v=QQxh6gEhSvE&t=143s>



ETHIOPIAN REGION



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ఇథోపియన్ ప్రాంతము జంతు భౌగోళిక ప్రాంతములు ఇందులోని ప్రాంతములు ధక్షిణ కర్కాటక రేఖ, ఆఫ్రికా ముఖ్యప్రాంతము అంతయూ, ధక్షిణ అరేబియా మరియు మెడగాస్కార్ ఇథోపియన్ ప్రాంతమును 4 ఉప ప్రాంతములు గా విభజించారు. తూర్పు ఆఫ్రికా: ఆఫ్రికా వేడిగాను. పొడి గాను ఉంటుంది. ఈ ఉపప్రాంతము లో అరేబియన్ ప్రాంతము కూడా ఉంటుంది. పశ్చిమ ఆఫ్రికా: ఆఫ్రికా పశ్చిమ భాగము కాంగో వరకు పొడిగించబడి ఉంటుంది. ధక్షిణ ఆఫ్రికా: ఇందులో ధక్షిణ ఆఫ్రికా ప్రాంతము అంతా ఉంటుంది. మలగస్సి: ఇందులో మొత్తము మెడగాస్కార్ ప్రాంతములు ఉంటుంది. వాతావరణముపరిస్థితులు చాలా ప్రాంతాలలో ఉష్ణం ఎక్కువగా ఉంటుంది. సంత్రము మొత్తము వేడి గా ఉంటుంది పరిసర పరిస్థితులు: ఈ ప్రాంతముభూమధ్యరేఖ మీద ఉంటుంది. పశ్చిమ ఆఫ్రికా ప్రక్కన పెద్ద నదులతో వర్షాధారప అడవులతో ఉంటుంది. చాలాప్రాంతాలు ఆకురాల్చు అడవులు ఉంటాయి. ఉత్తర ధక్షిణ ప్రాంతాలలోని భాగాలు ఎడారులుగా మారి ఉంటాయి. సకశేరుకాల జంతు సమూహము చేపలు: ఈ ప్రాంతములో Cat fishes, lung fishes (Protopterus, Polypterus) మరియు మంచి నీటి చేపలు తక్కువగా ఉంటాయి. ఆంఫిబియా: జీనోఫన్ మరియు కొన్ని రకాల సినిలియన్లు ఈ ప్రాంతములో ఉంటాయి. యూరోడిల తరగతికి సంబంధించిన జంతువులు ఉండవు. సరీసృపాలు: snakes, Leptorhynchus, Ramnophis, lizards, Monotrophis, Cordylus, Agama, Chame-leon మొదలైన ప్రజాతుల చాలా ఎక్కువ గా ఉంటాయి. పక్షులు: 67 కుటుంబాలకు చెందిన పక్షులు గుర్తించ బడ్డాయి. ఇందులో ముక్యముగా Ostrich, Cuckoo, Parakeet, Eagle, Kite, Pigeon, Hornbill మొదలైనవి. క్షీరదాలు: 51 కుటుంబాలక్షీరదాలుగుర్తించ బడ్డాయి. ఇందులో15 జాతులు ఈప్రాంతమునకు ప్రత్యేకము. Zebra, Gorilla, Antilope, Leopard, Two Horned Rhino-ceros, Hippopotamus, Lemur, gnu, Beboon, lion, giraffe, chimpanzee, loxodonta మొదలైనవి. డా. కర్రి. రామారావు జావాళి విభాగము

ZOOGEOGRAPHICAL REGIONS

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జంతు భౌగోళిక ప్రాంతములు అనే భావన మొట్టమొదట స్కాట్లర్ 1857 లో ఖండాలను ౬ రాజ్యాలుగా విభజించాడు. ఇతను పక్షుల సమూహాలను ఆధారము చేసుకొని రెండు రాజ్యాలు గా విడదీసాడు. I. పేలియోజీన, (పేరాచీన ప్రపంచము), II. నియోజీన (ఆధునిక ప్రపంచము) I. పేలియోజీన 4 రాజ్యములగా విడదీసారు. 1. పేలియోరిటిక్ (ఉష్ణ మండల యురేసియా), 2. ఇథోపియన్ (పశ్చిమ పేలియోటిరోఫిక్) ఆఫ్రికా, 3. ఇండియా (మధ్య పేలియోటిరోఫిక్) ఉష్ణ మండల ఆసియా, 4. ఆస్ట్రేలియా (తూర్పు పేలియోటిరోఫిక్) ఆస్ట్రేలియా, న్యూగీనియా, టాస్మేనియా. II. నియోజీన (ఆధునిక ప్రపంచము): 2 రాజ్యములగా విడదీసారు, a) నియోరిటిక్ (ఉత్తర అమెరికా) గోరీన్ లాండ్, ఉత్తర అమెరికా నుండి మెక్సికో వరకు b) నియోటిరోపిక్ (ధక్షిణ అమెరికా): ధక్షిణ అమెరికా నుండి ధక్షిణ మెక్సికో వరకు హక్సలె 1868 లో ఈ ప్రాంతాలను 3 సమూహాలు గా విడదీసాడు. 1. నియోజియా (నియోటిరోపిక్) 2. నోటోజియా (ఆస్ట్రేలియా) 3. ఆర్కటోజియా (మిగతా ప్రపంచము అంతయు) వల్లెస్ (1876) జంతు భౌగోళిక పిత గాపిలవబడతాడు ఇతను స్లాటర్ వర్గీకరణను అంగీకరించాడు. కాని ఇండియన్ ప్రాంతమును ఒరియంటల్ ప్రాంతము అని, ఆఫ్రికా ప్రాంతమును ఇథోపియన్ ప్రాంతమును అని ప్రతిపాదించాడు. అంతకు ముందు ఉండే ఈ జంతు భౌగోళిక ప్రాంతాల పేర్లు ఇప్పుడు లేవు. వల్లెస్(1876) మరియు డార్లింగ్ టన్ (1957) పతిపాదించి, ఇప్పుడు వప్రపంచ వ్యాప్తముగా అంగీకరించాడు నూతన వర్గీకరణ ప్రకారము 3 రాజ్యాలుగా విడదీసారు. I. మోగాజియ రాజ్యము: A. పేలియోరిటిక్ ప్రాంతము, (యూరప్, రష్య, మెడిటేరియన్) B. నియోరిటిక్ ప్రాంతము: ఉత్తర అమెరికా నుంచి మధ్య మెక్సికో వరకు C. ఆఫ్రికన్ (ఇథోపియన్) ప్రాంతము: ఆఫ్రికా నుంచి దక్షిణ సహార వరకు D. ఒరియంటల్ ప్రాంతము: ఉష్ణ మండల ఆసియా 30౦ అక్షాంశము లో II. నియోజియ రాజ్యము: A. నియోటిరోపిక్ ప్రాంతము: ధక్షిణ అమెరికా, ఉష్ణ మండల మెక్సికో మరియు కరేబియన్ దీవులు III. నోటోజియ రాజ్యము: ఆస్ట్రేలియన్ ప్రాంతము: న్యూగీనియా, టాస్మేనియా, న్యూజిలాండ్ జంతువుల విస్తరణ: భూమి మీద మరియు మంచి నీటిలో జంతువుల విస్తరణ సమానముగా లేదు. జంతువుల వ్యాప్తి చాలా కారకాల వలన నిరోధించబడుతుంది. ముఖ్యముగా వాతావరణము, ఆహారము, నివాసము, ప్లోరా, ఫానా మొదలైనవి. జంతువుల వ్యాప్తి 3 రకములుగా ఉంటుంది. నిరంతర విస్తరణ, విచ్ఛిన్న విస్తరణ, ద్వీదీప విస్తరణ నిరంతర విస్తరణ: వివిధ రకాల పరిసరాలలో జంతువుల విస్తరణ నిరంతరాయముగా జరుగుతుంది. ఈ విస్తరణ ఆహారమునకు గాని, ప్రత్యుత్పత్తికి గాని ఎటువంటి అడ్డంకులనైనా సరే ఎగురుటవలనగాని, ఈదుటవలన గాని

Australian region

https://www.youtube.com/watch?v=Sd_2MQinCNk&t=129s



Australian region



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Australia region This region includes Australia, Tasmania, New Guinea, New Zealand and islands east of Wallace's Line. New Guinea is tropical with rain forests. Eastern Australia is covered with lush green forests, Western Australia is desert and there are grasslands in the middle. Mammals. Eight of the 9 families of marsupials are unique. There are 52 genera of 6 families of marsupials that are unique and are not found in the Neotropical Region. Marsupials show parallelism with their counterpart placentals in other parts of the world in their evolutionary modifications. Placental mammals that were introduced by man or some of them immigrated themselves include rodents and bats, rabbits, foxes, rats, mice, dingo dogs, cats, pigs and murid mice. Monotremes are represented by *Ornithorhynchus* and *Echidna*. Birds. There are 58 families of birds out of which 44 are widely distributed. Species having wide range are trogons (*Harpactes*), hawks, kingfisher, cuckoos, parrots and pigeons. Shared with Oriental are frogmouths, wood-swallows, flowerpeckers and megapods. There are 10 families of endemic birds which include cassowary, emu, kiwi, lyrebird, bower birds, honey suckers, birds of paradise, magapods and cookabura or laughing jackass that feeds on lizards and snakes. Birds not present are pheasants, finches, barbets and woodpeckers. Reptiles. There are pythons, biting snakes, elapid coral snakes, geckos, skinks, agamid lizards, scale-footed lizard (*Pygopus*) and Komodo Dragon (*Varanidae*), crocodiles and turtles. Chelyd turtles and snake-necked turtles (*Chelodina*) possess strikingly long necks. *Sphenodon pounctatus* is found exclusively in New Zealand. Amphibia. There are no tailed amphibians. Common toads are absent and frogs are few. Tree frogs belong to family *Hylidae* which is also found in the New World and Palaeartic but absent in African and Oriental Regions. The Australian Green Tree Frog secretes mosquito repellent compound from the skin glands. The

ORIENTAL REGION

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This region includes Indian subcontinent, southern China south of 30° latitude, Malaya, Philippines and Indonesian islands up to Wallace's Line. There are rainforests in the east, high mountains in the north and the western part is arid. Along the south-western coast there is a forested low mountainous belt.

PLACENTA

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3



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జెరాయువు రకాలు జెరాయువు వివిధ అంశాలపరాతిపదికన అనేక రకాలుగా పేర్కొంటారు 1. జెరాయువు ఏర్పాటులో పాల్గొనే పిండ బాహ్యత్వచాల పరంగా జెరాయువు రకాలు 2. గర్భాశయ కుడ్యంతో జెరాయువు కలయిక ఆధారముగా జెరాయువు రకాలు 3. అంకురికల విస్తరణ, ఆకృతి పరముగా జెరాయువు రకాలు 4. జెరాయువు ఏర్పాటులో పాల్గొనే కణజాలలు ఆధారముగా జెరాయువు రకాలు (కణస్తరములు వాటిలక్షణములు బట్టి జెరాయువును 5 రకములుగా విభజించిరి 1. ఎపిథీలియో కోరియల్, 2. సిన్ డెస్మోకోరియల్, 3. ఎన్టోథీలియో కోరియల్, 4. హీమోథీలియో కోరియల్, 5. హీమోఎన్టోథీలియో కోరియల్) జెరాయువు విధులు పోషణ: ఆహార పదార్థాలు తల్లి రక్తము నుండి భ్రూణరక్తము లోకి సరఫరా చేయును శ్వాసక్రియ: ఆక్సిజన్ తల్లి రక్తము నుండి భ్రూణరక్తము లోకి, CO2 భ్రూణరక్తము నుండి తల్లి రక్తము లోకి రవాణా చేయును విసర్జన: యూరియా, యూరిక్ ఆమ్లము భ్రూణరక్తము నుండి తల్లి రక్తము లోకి సరఫరా చేయును పోషక పదార్థాలు నిలువ: గ్లైకోజన్, అకర్బన పదార్థాలు జెరాయువు లో నిలువ చేయటకు జెరాయువు డైఎమెనోఆక్సైడ్ వంటి ఎంజైమ్ లు ఉత్పత్తి జెరాయువు ఈస్ట్రోజెన్, ప్రోజెస్టెన్, గోనెడ్ ట్రోఫిన్ వంటి హెర్మోన్లు ఉత్పత్తి మరియు శిశు జనన సమయములో రిలాక్సిన్ విడుదల చేయును. పాల ఉత్పత్తికి ఆక్సిటోసిన్ విడుదలచేయును. జెరాయువు సూక్ష్మజీవుల ప్రవేశమునకు ప్రతిబంధకముగా ఉంటుంది

Types of Eggs

<https://www.youtube.com/watch?v=HdmoZaI5rig&t=121s>



Types of Eggs



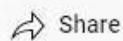
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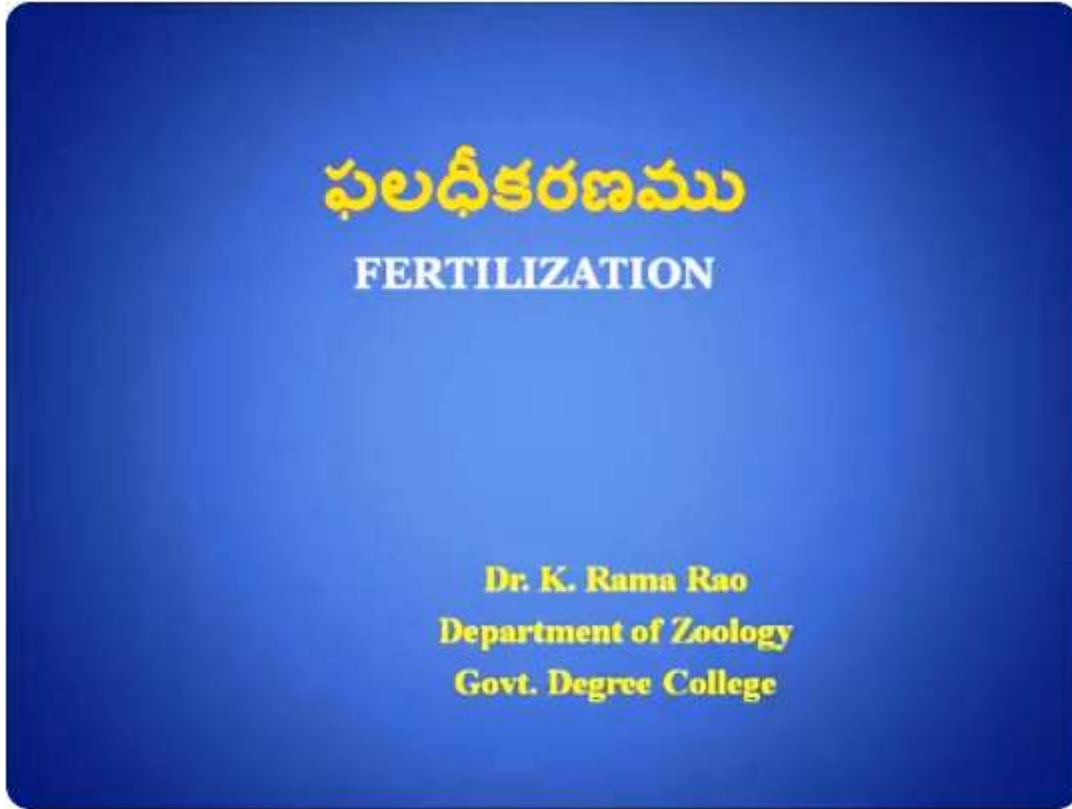
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Classification of Egg I. On the Basis of the Amount of yolk Eggs are grouped into Four types on the basis of the amount of yolk present in them. 1. Alecithal Egg: When the egg contains no yolk, it is called alecithal egg. Eg. The eggs of eutherian mammals 2. Microlecithal Egg: When the egg contain. Small or negligible amount of yolk it is said to be microlecithal. Romer and Balinsky named these eggs as oligolecithal eggs Eg'. Amphioxus, Tunicates 3. Mesolecithal egg: In amphibian, Dipnoi and Petromyzon the amount of yolk present is moderate and is not high Hence these eggs are also named as mesolecithal eggs 4. Macrolecithal or Megalecithal or Polylecithal Egg: When the egg contains large amount of yolk it is said to be macrolecithal or megalecithal egg. It is also called Polylecithal egg Eg. Reptiles, Birds, Prototheria (Monotremata) Egg laying mammals. II. On the Basis of the distribution of yolk A. Isolecithal or Homolecithal Egg: In isolecithal eggs, the very little amount of yolk present is uniformly distributed throughout the ooplasm (eg.. echinoderms, Amphioxus, mammals). This condition is usually observed in eggs with very little amount of yolk.

FERTILIZATION

<https://www.youtube.com/watch?v=Mqyzt0bVTuE&t=6s>



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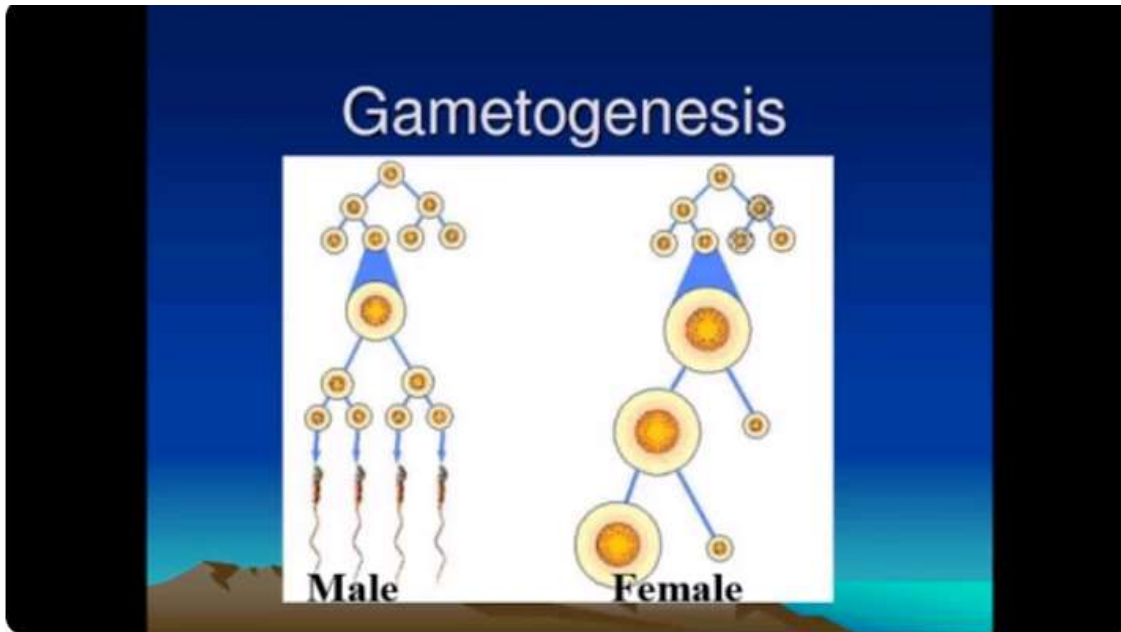


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The process of fertilization involves a sperm fusing with an ovum. The sperm plasma then fuses with the egg's plasma membrane, triggering the sperm head to disconnect from its flagellum as the egg travels down the Fallopian tube to reach the uterus.

Gametogenesis

<https://www.youtube.com/watch?v=0hhp4GfQajE&t=39s>



Gametogenesis



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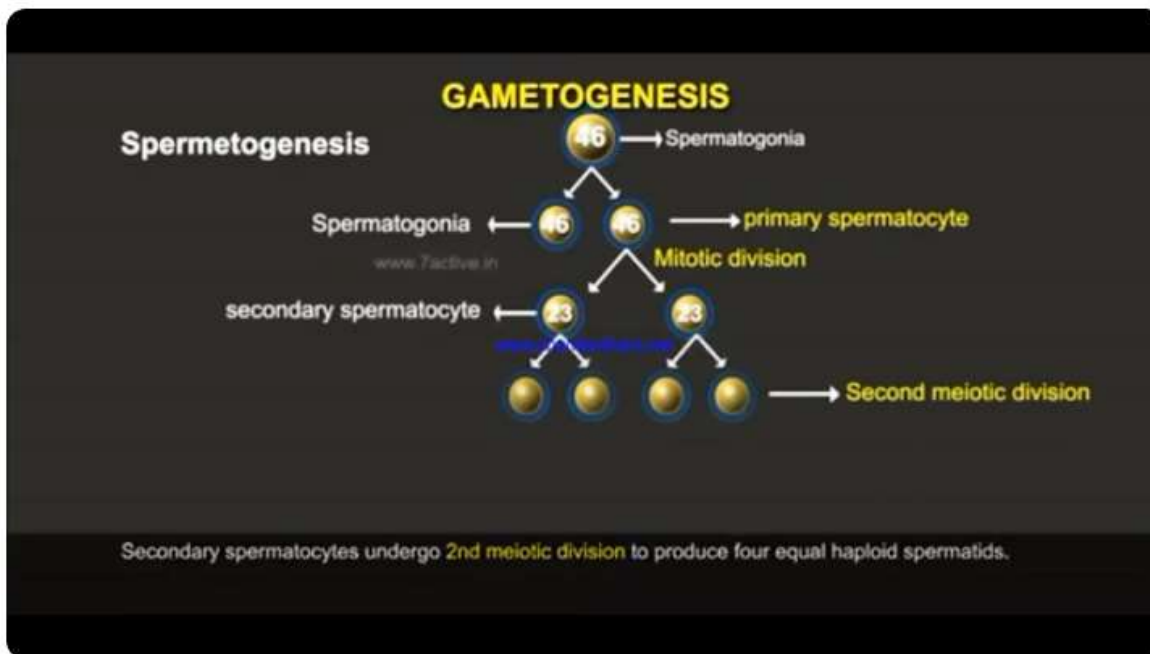
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Gametogenesis

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Gametogenesis is a biological process by which diploid or haploid precursor cells undergo cell division and differentiation to form mature haploid gametes. The existence of a multicellular, haploid phase in the life cycle between meiosis and gametogenesis is also referred to as alternation of generations.

Cage culture

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The production method for raising aquatic species using enclosures made of wire or netting around rigid frames which are placed in water. A cage or net pen is a system that confines the fish or shellfish in a mesh enclosure. There are 4 types of fish-rearing cages namely: i) Fixed cages, ii) Floating cages, iii) Submerged cages and iv) Submersible cages.

Plasmodium vivax

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Plasmodium vivax (Mobile phone - online video lecture)



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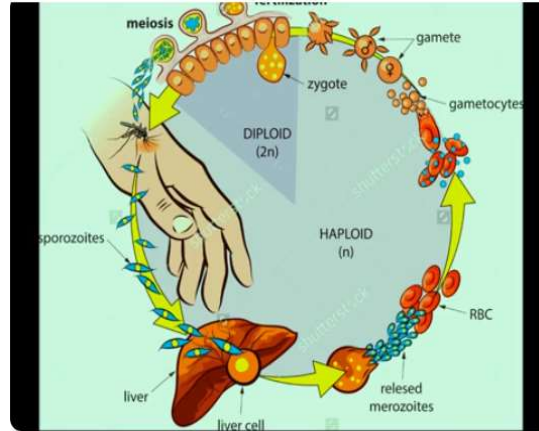


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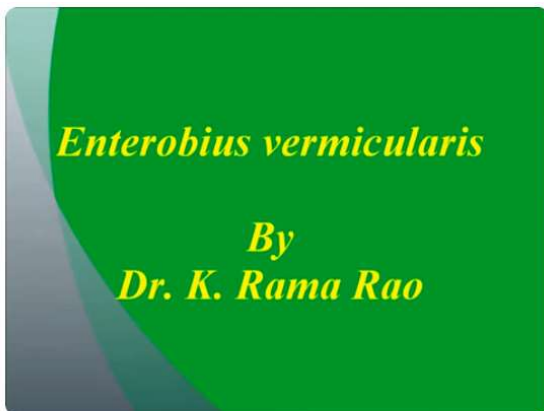
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Enterobius vermicularis

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Enterobius vermicularis (Telugu medium)



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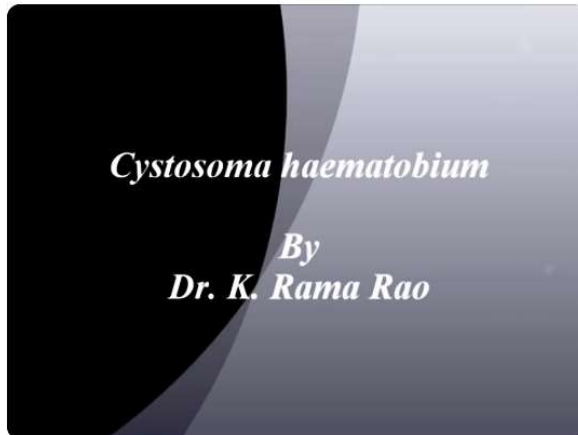
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Mobile phone and online videos of Zoology lessons The entire life cycle, from egg to adult, takes place in the human gastrointestinal tract of a single host,[16][17] from about 2–4 weeks[23] or about 4–8 weeks.

cystosoma haematobium

<https://www.youtube.com/watch?v=RSvgk7NU6sI>

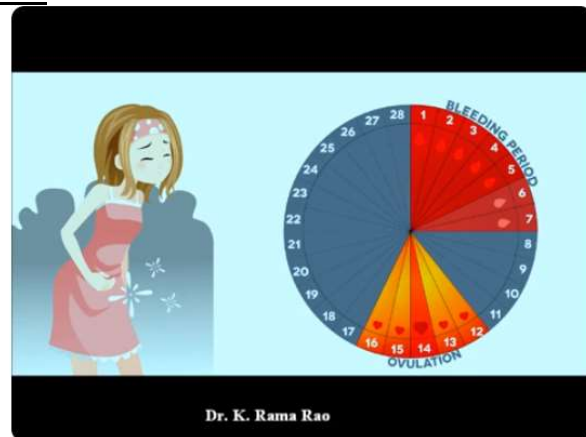
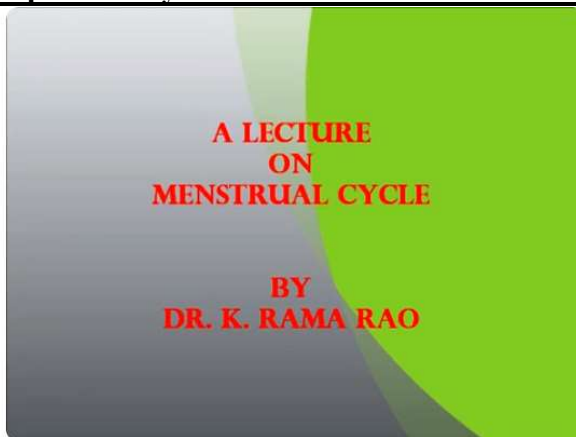


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Schistosoma haematobium is an important digenetic trematode, and is found in Africa and the Middle East. It is a major agent of schistosomiasis; more specifically, it is associated with urinary schistosomiasis.

Menstrual cycle

<https://www.youtube.com/watch?v=KMAlnatFlkk>



Menstrual cycle



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Menstrual cycle



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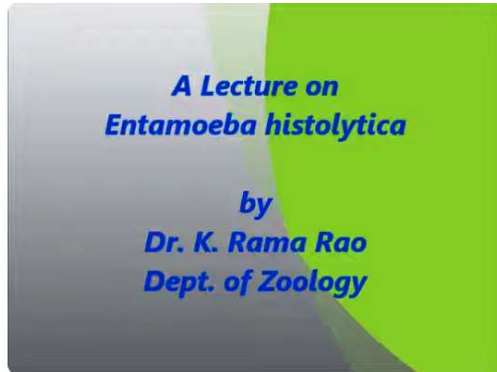
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The menstrual cycle is the regular natural change that occurs in the female reproductive system (specifically the uterus and ovaries) that makes pregnancy possible. The cycle is required for the production of oocytes, and for the preparation of the uterus for pregnancy. Up to 80% of women report having some symptoms during the one to two weeks prior to menstruation. Common symptoms include acne, tender breasts, bloating, feeling tired, irritability and mood changes. These symptoms interfere with normal life and therefore qualify as premenstrual syndrome in 20 to 30% of women. In 3 to 8%, they are severe.

Entamoeba histolytica

<https://www.youtube.com/watch?v=UzAs7NKAJfo>



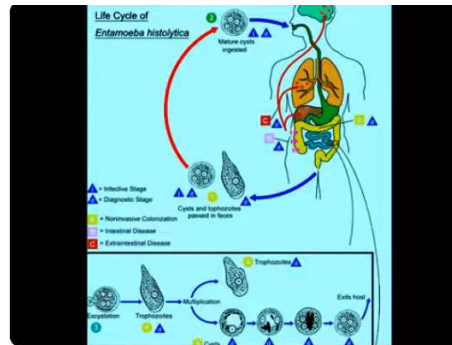
Entamoeba histolytica



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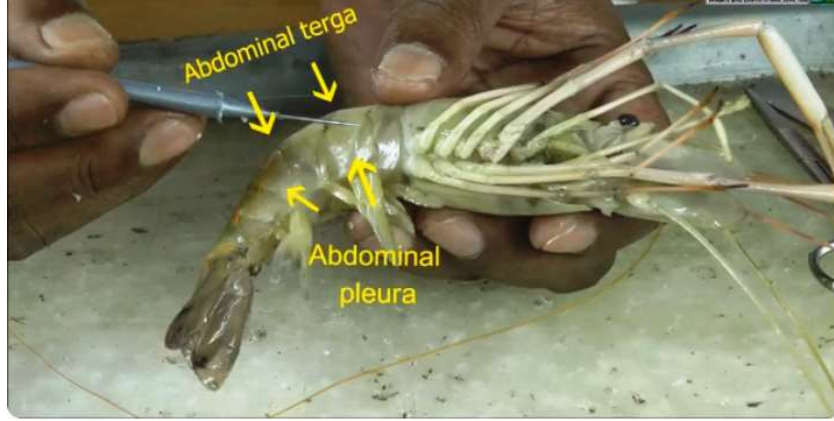
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Entamoeba histolytica is an anaerobic parasitic protozoan. Predominantly infecting humans and other primates causing amoebiasis, *E. histolytica* is estimated to infect about 50 million people worldwide. Previously, it was thought that 10% of the world population was infected, but these figures predate the recognition that at least 90% of these infections were due to a second species, *E. dispar*. Mammals such as dogs and cats can become infected transiently, but are not thought to contribute.

Virtual dissections

Prawn - Appendages Dissection మంచి నీటి రొయ్య ఉపాంగాలు విచ్ఛేదనము

<https://www.youtube.com/watch?v=iqrVmz625WA0> ^{21 / 10:58}



మంచి నీటి రొయ్య ఉపాంగాలు విచ్ఛేదనము (Prawn - Appendages Dissection)

1,806 views Jul 20, 2019 SUBSCRIBE 310

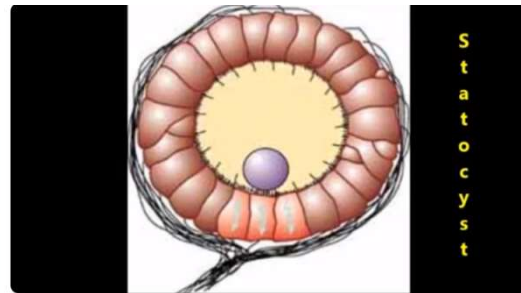
Courtesy to Dr. S. M. Iqbal <https://www.youtube.com/watch?v=4PJA5...> In prawns one pair of appendages in each segment of the body. The prawn carries, nineteen pairs of appendages of which the first five are cephalic, the following eight are thoracic, and the remaining six are abdominal. Each of the first two segments bears a pair of prehensile antennae or feelers. The first antenna or antennule lies behind the eye. The second antenna or antenna is just posterior to the antennule.

DISSECTION OF PRAWN STATOCYST

<https://www.youtube.com/watch?v=sMutOON6zHE> ^{1:04 / 4:32}



DISSECTION OF PRAWN STATOCYST (రొయ్య సంతలన కోశము విచ్ఛేదన)



DISSECTION OF PRAWN STATOCYST (రొయ్య సంతలన కోశము విచ్ఛేదన)

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Take an antennule either from the animal or else you will be provided one in the laboratory. Look along the dorsal surface of its precoxa and locate the depression. Now, make incisions, one each, along its lateral edges. Holding the posterior end of upper flap of precoxa pull it upwards and forwards. Locate a round greyish structure attached to inner surface of precoxa. Hold it between thumb and first finger of the left hand and cut few thin sections. Select one section, wash, stain with Borax carmine, dehydrate, clear in Xylol and mount in Canada balsam. Dr. K. Rama Rao Dept. of Zoology Govt. Degree College TEKKALI

Prawn Nervous system Dissection

<https://www.youtube.com/watch?v=5V1J59oX7G0>



Prawn Nervous system Dissection (రొయ్య నాడి వ్యవస్థ విచ్ఛేదన)

1,352 views Jul 17, 2019

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Hold the prawn in left hand or put it in dissecting tray with its dorsal side upwards. Make a lateral-cut, just above the hinge joints, on either side in all the abdominal segments as well as in carapace. Remove the tergal plates and median piece of carapace. Remove the alimentary canal and blood vessel from mid dorsal groove. Now make a deep cut in the median line with the help of scalpel. Stretch the two sides laterally and pin them on sides. Locate the thick double, ganglionated and white nerve cord in the median ventral line just above sternal plates.

Crab Digestive System Dissection

<https://www.youtube.com/watch?v=UavQAs1TgFs>

28 Aug 2019



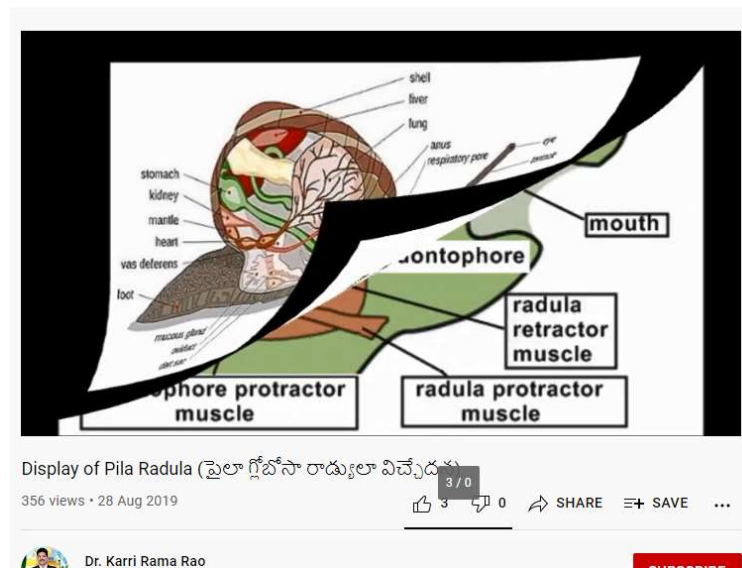
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Crabs are usually dissected live in most cases, after clipping the last one or two segments of the walking legs. Hold the crab with left hand in its walking position. Turn it upside down and clip off portion of legs with a pair of stout scissors or a bone cutter. Cut along the margin of the dorsal carapace joining the ventral sternites. Turn the dorsal surface upwards, carefully separates the carapace from the lining membrane below it and the carapace is free. Release the flexed abdomen off the groove formed by sternites on the ventral surface and straightens it. Place the specimen on the dissecting tray keeping the dorsal surface upwards.

Display of Pila Radula

<https://www.youtube.com/watch?v=zSTYRtliac0>



538 views Aug 28, 2019

After exposing the pila by removing its shell and mantle locate the buccal mass, which is present just behind the tentacles as a large soft muscular nodule. Remove the integument from above the buccal mass. Now take it out by cutting the muscles from around with the help of scalpel and after cutting the tentacles.

Blood Groups identification (Demo)

<https://www.youtube.com/watch?v=EKoRCR68ukI>



Blood Groups identification (Demo)



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1,122 views Jan 31, 2016

The test to determine your blood group is called ABO typing. Your blood sample is mixed with antibodies against type A and B blood, and the sample is checked to see whether or not the blood cells stick together (agglutinate). If blood cells stick together, it means the blood reacted with one of the antibodies.



Blood Groups identification (Demo)



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Rare Gobid Fish Identified

<https://www.youtube.com/watch?v=Z6yhpsVQ2aY>

CVR News



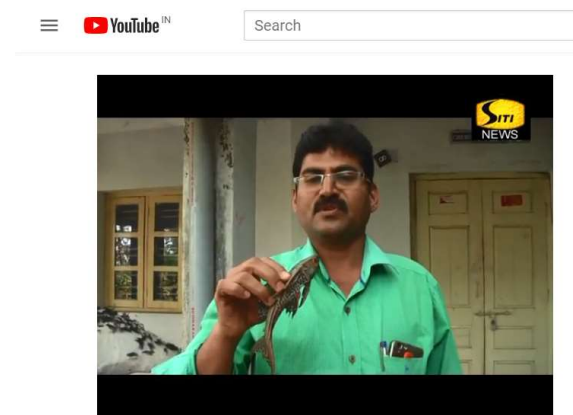
Rare fish Gobid Fish Identified at Karimnagar professor Rama Rao CVR News

387 views May 16, 2018

Body elongate. Head elongate, border than deep; inter-orbital space broad. Small finger like flap on shoulder girdle. Mouth oblique, upper jaw prominent; lips thick; teeth on both jaws in several rows Dorsal fin close to each other, all dorsal spines thin and flexible; pelvic fins a disc, Scales on a body ctenoid. Black dot on middle of base of caudal fin. Tropical species, primarily found in fresh water and upper parts of brackish water Few species; two in Indian region.

Pterygoplichthys paradalis

https://www.youtube.com/watch?v=_C4YZPztF0g



Pterygoplichthys paradalis

711 views Feb 18, 2017SUBSCRIBE 526

Pterygoplichthys paradalis commonly known as Amazon Sailfin Sucker mouth catfish observed at Kundaram village, Janagam Dt. First time observed at Telangana State. P. paradalis earlier reports in India from Coastal Andhra Pradesh, West Bengal, Behr and Uttar Pradesh Dr. K. Rama Rao Asst. Professor Dept. of Zoolgy

<https://www.youtube.com/watch?v=oBQFOsJZuEs>

Pterygoplichthys pardalis

1,219 views Feb 23, 2017 36SHARESAVE

Badis badis Fish

<https://www.youtube.com/watch?v=N3AUUnyC4sk>



Badis badis (HAMILTON, 1822)

Badis badis Fish



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Freshwater Salt dry fish preparation

<https://www.youtube.com/watch?v=47faTA7T0eA>



SS 529

101 views Jul 22, 2022 [VISA KHAPATNAM](#)

Fish and fisheries are the intrinsic part of life of Andhra Pradesh fishermen from the past and play a vital role to generating employment, nutrition, earning currency and other aspects of the economy. The culture ponds, rivers and reservoirs are famous for producing huge amount of fish in various places from Srikakulam to Nellore districts. During monsoon season fishing activities are strengthened and a huge amount of fishes are harvested than the other seasons. As huge quantities of fresh fish are caught every day, much of them remain unsold because of shortage of customers. In freshwater fish culture ponds oxygen problems identified when more number of big fishes died at various pails, as a result big amount of post-harvest loss occurs. Bulk catches are destroyed at that time due to unavailability of processing and preservation facilities. Preparation of salt dry fishes is an eco-friendly method and it may consider as healthy food product. If prepared scientifically with attractive packaging for retail sale, these would add to the value products. It is need of the day that fishermen along with entrepreneurs come forward to produce dried salt fish. It would definitely capture the urban markets in India and women get more economically benefitted.

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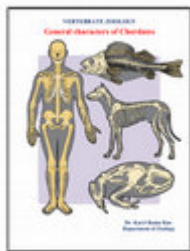
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Conditioning and packing of ornamental fishes

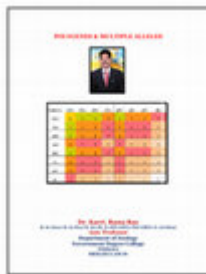
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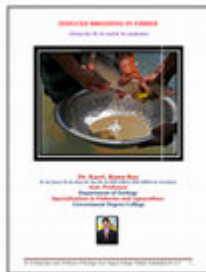
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Types of Fisheries

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The production method for raising aquatic species using enclosures made of wire or netting around rigid frames which are placed in water. A cage or net pen is a system that confines the fish or shellfish in a mesh enclosure. There are 4 types of fish-rearing cages namely: i) Fixed cages, ii) Floating cages, iii) Submerged cages and iv) Submersible cages.



The video player shows a large body of water with several rectangular cages made of blue floating material. The cages are arranged in a grid pattern. In the background, there are hills and a clear sky. The video player interface includes a play button, a progress bar at 1:20 / 5:01, and various control icons like volume, full screen, and share.

Cage culture

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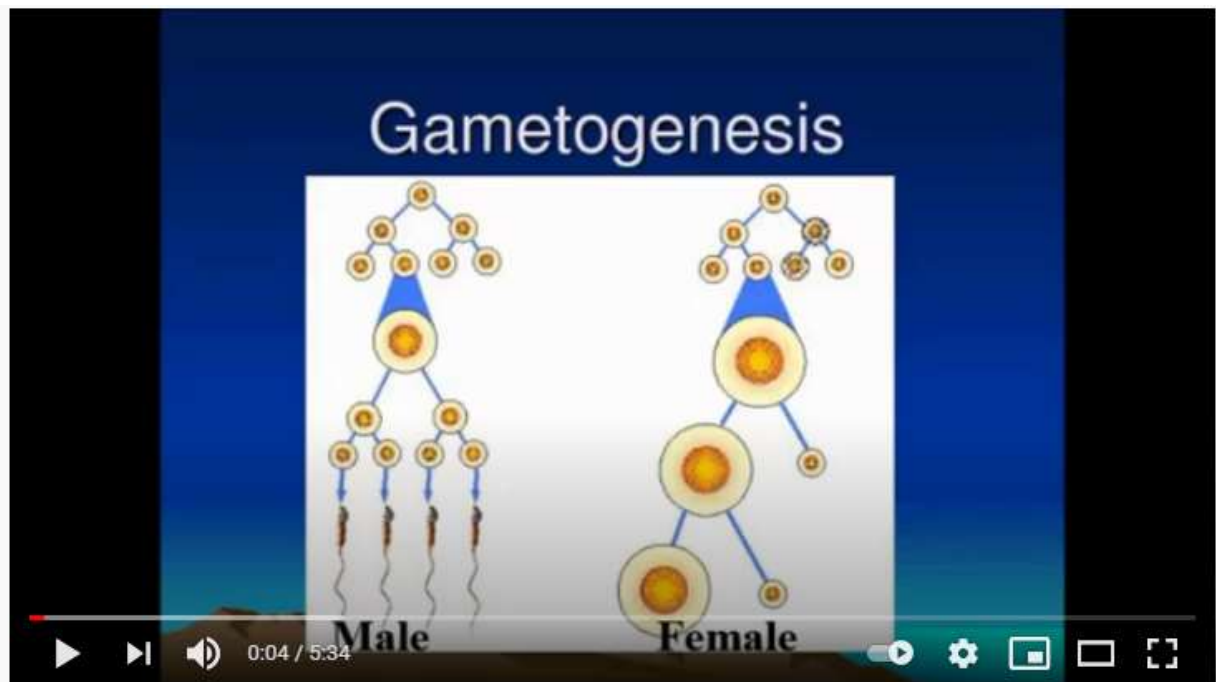
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Gametogenesis is a biological process by which diploid or haploid precursor cells undergo cell division and differentiation to form mature haploid gametes. The existence of a multicellular, haploid phase in the life cycle between meiosis and gametogenesis is also referred to as alternation of generations.