

Teaching and learning methodology

**Shri Kuleshwar Mahadev Government
College Gobra-Nawapara Raipur CG.**

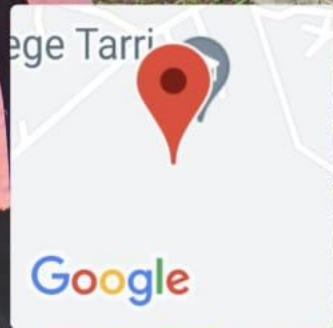
- Experiential learning- Educational tour, Field work, Workshop
- Participative learning- Practical work, Class seminar, Student interaction program
- Problem solving- Projects and model preparation

Experiential learning

Field work



Field Visit



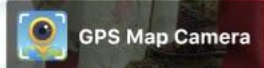
Nawapara, Chhattisgarh, India

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Innovation – Study of Biodiversity around Campus



Nephila pilipes
Golden orb-web spider



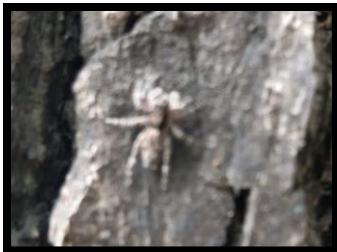
Menemerus
(Wall jumping spider)



Huntsman spider
(heteropoda venatoria)



Phlegra bresnieri



Pardosa agricola



Menemerus bivittatus
(gray Wall jumping spider)



Moth- Xyleutes
(crop/forestry pest)



Hogna carolinensis
(carolina wolf spider)



**Butterfly: Gulf fritillary
(Linnaeus)**



**Danaus chrysippus
(plain tiger)**



**Butterfly: Hypolimn
as misippus (Danaid Eggfly)**



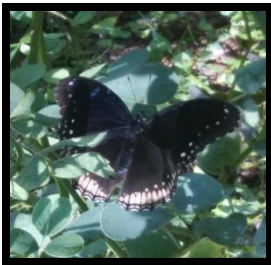
**Byblia ilithyia
(spotted joker)**



**Butterfly: hypolimnas bolina
(blue moon butterfly)**



Danaus chrysippus



**Butterfly: Hypolimnas bolina
(blue moon butterfly) Dark black**



**Orb-weaver
spider**



Butterfly: Acraea terpsicore



**Epocilla
aurantiaca
(Jumping spider)**



**03 larva's of Common Jay
Graphium doson in the same
plant**



1st instars larva



2nd instars larva



3rd instars larva



Boxer mantis (Hestiasula)

Innovation

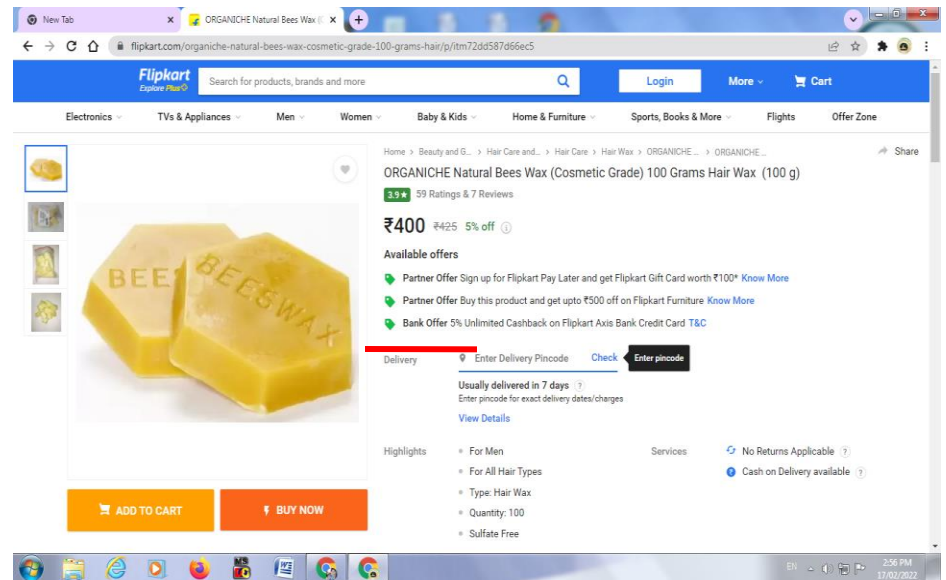


Process of honey bee wax extraction



Making cost and profit

- Total cost of making bee wax
- Use- Cosmetics, antibacterial and antifungal properties, candles are used as air purifier.
- Quantity of wax:
- From one bee hive of 40 x 30 cm we extracted = 250g of bee wax
- Current price of natural bee wax in India:
 - 400 Rs/100g
 - Expected product price:
 - $250 \times 4 = 1000$ Rs.
 - Expected Profit:
 - $1000 - 70 = 930$ Rs.



Workshop on extraction of natural honey bee culture





Participative learning

STUDENT INTERACTION PROGRAM ON 'PROS AND CONS OF STUDYING ABROAD'

If there's one thing you need to do when studying abroad, it's getting out of your comfort zone. Traveling across the ocean all by yourself was a challenge on its own, but then the adventure still has to start! The objective of this interaction program is to discuss various opportunities abroad for research or higher studies and it's pros and cons.



Department of Zoology Shri Kuleshwar Mahadev Government College Gobra Nawapara Raipur C.G.



Organizer

Dr. Razia Sultana
MSc, PhD Biosciences
Assistant Professor, Zoology

PROGRAM DETAILS Presentation through Virtual mode-Google meet

Date: 10th September 2022
Time: 02:00 PM

Google Meet: <http://meet.google.com/yqa-rapp-ush>



Invited Speaker

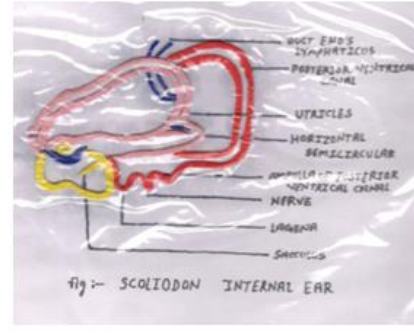
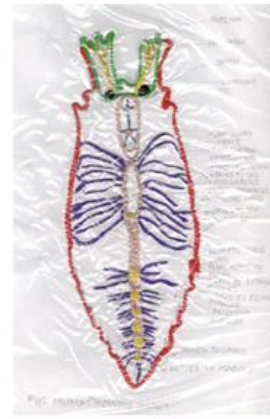
Dr. Yusuf Khan
MSc (Bioinformatics), PhD
(Biotechnology)
Inland Norway University of Applied
Sciences, Hamar, Norway.



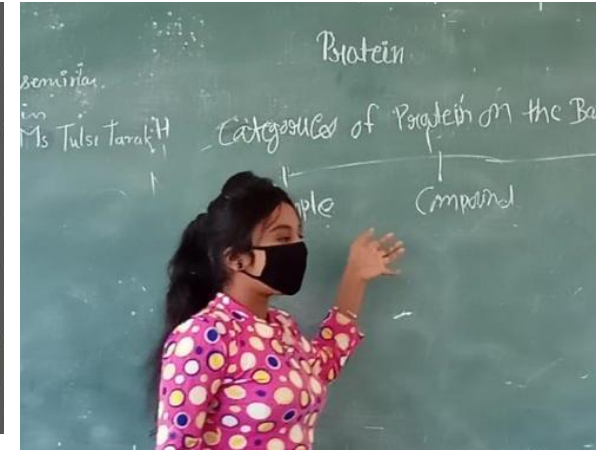
Research Contribution

Dr. Y. Khan is a highly skilled researcher. He published several international publications in Bioinformatics and statistics. He is working on transcriptome analysis, RNA-seq analysis, miRNA-seq data analysis, and comparative genomics. He also has experience in with Perl and R programming languages, single cell and Bi-sulphite sequencing, protein homology modelling and docking, and worked with different visualization software e.g. cytoscape, circose, IGV

Alternative of dissection



Class-seminar outcome- confidence and leadership



...to and their work
for a sector cover
agricultural and
The Department of
and learning at all
the essential roles
...ness or citizens
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We believe in active
curriculum and co-
discussion metho
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B.Sc. III

B.sc I

Class seminar

Participative learning



Plant seedling and raising method

Observations of Mustard seed

- Planting seeds in pots.
- Date – 15/09/2022
- Seed germination.
- Date – 17/09/2022



Observations of Mustard seeds

- Growth of germinate seeds.
- Date – 20/09/2022
- Length - 5c.m.
- Growth
- Date – 21/09/2022
- Length- 7c.m.



Show all

Observations of Mustard seeds

- Growth
- Date – 22/09/2022
- Length – 8.5 c.m.
- Growth
- Date – 24/09/2022
- Length- 10.9 c.m.

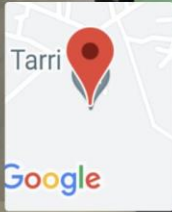


Practical Experiential learning





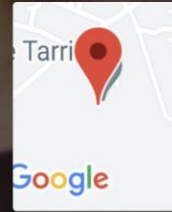
GPS Map Camera



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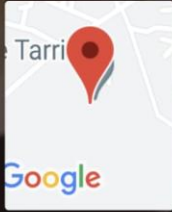
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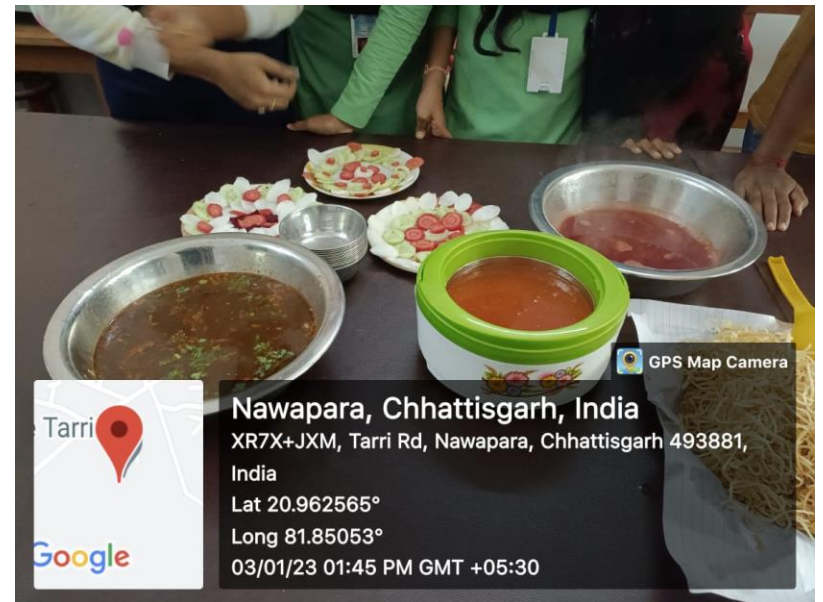
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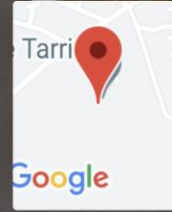
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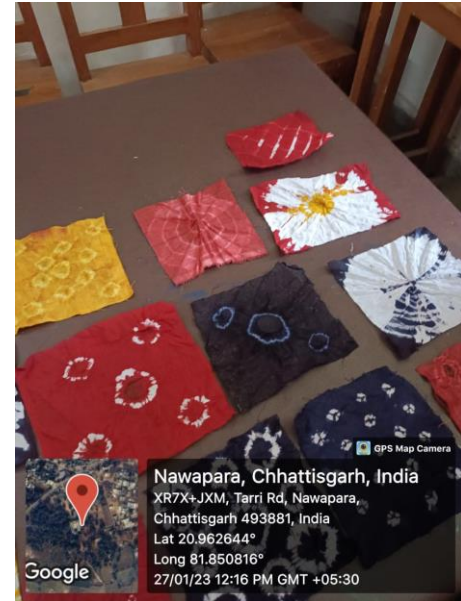
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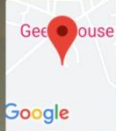




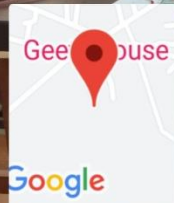








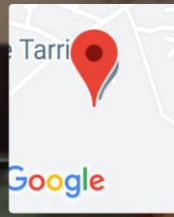
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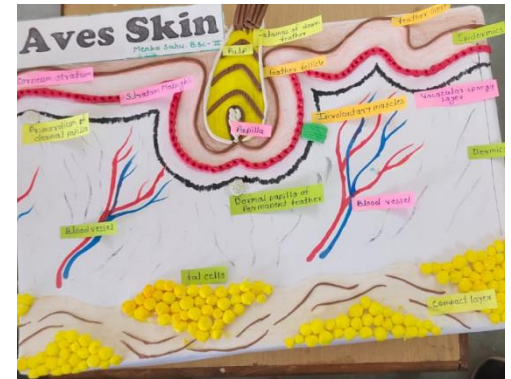
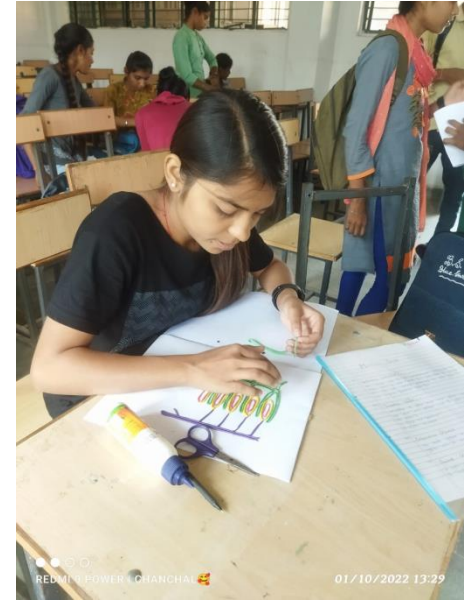
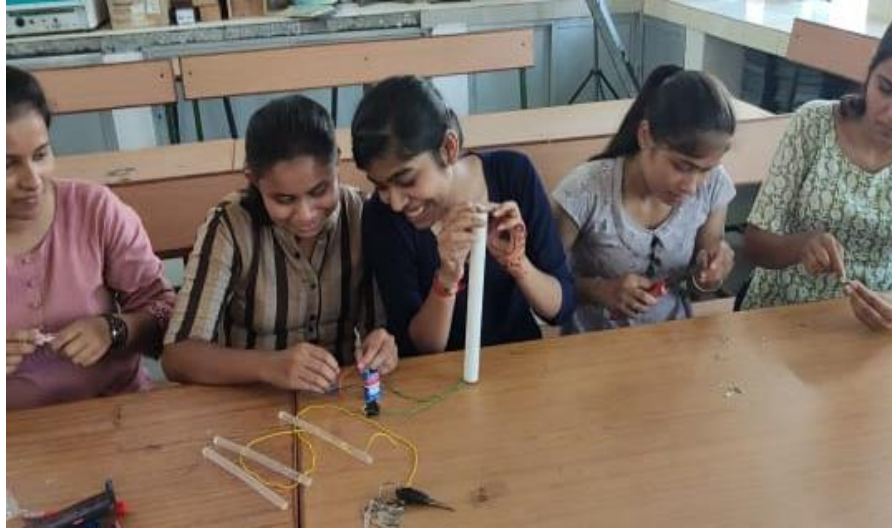
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Problem solving learning

Zoological Model



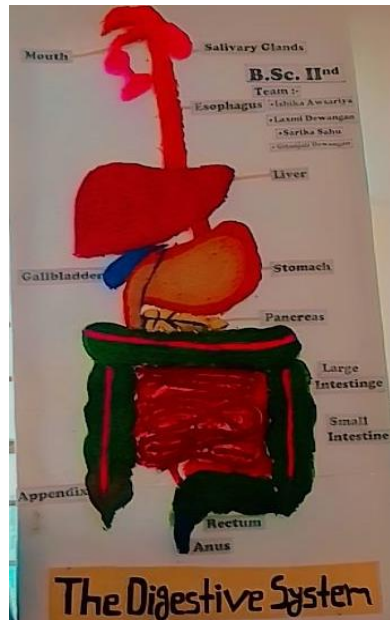
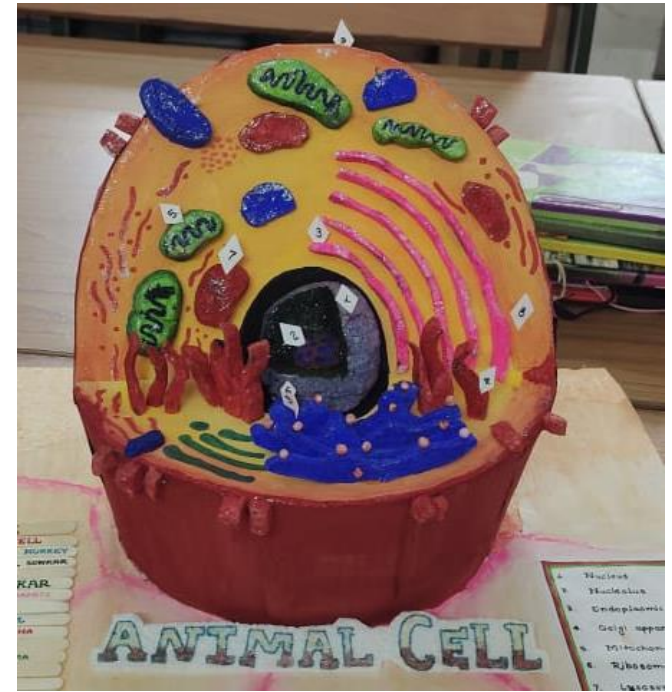
AMAZING ZOOLOGY MAGAZINE

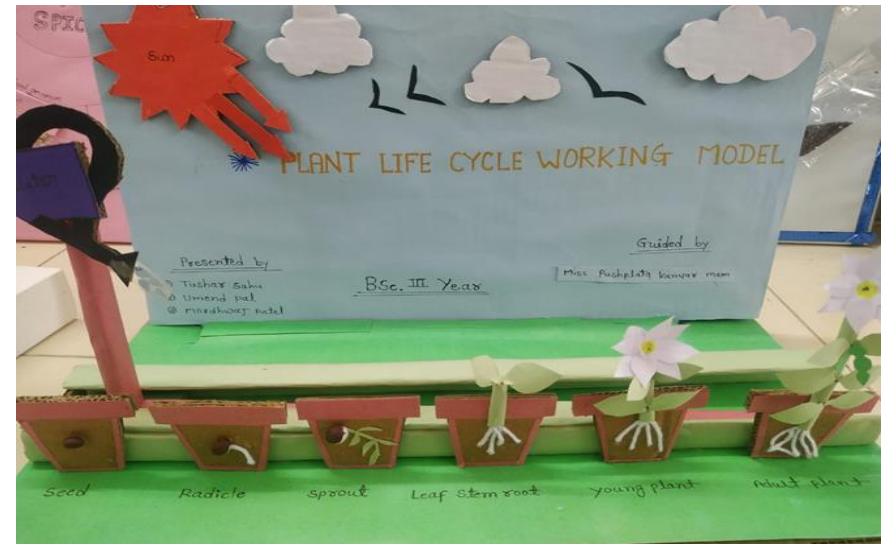
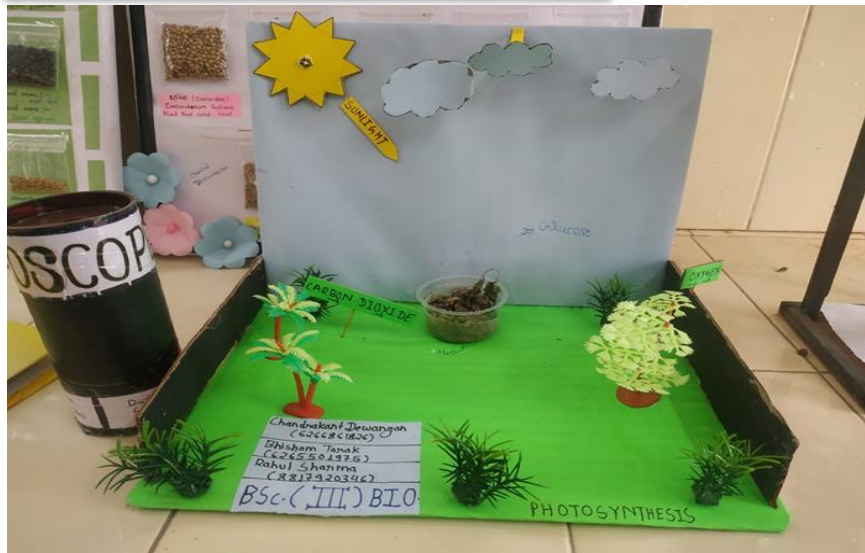


Listen to Everyone!
and
Learn From Everone!
Because..
Nobody Knows everything..
But..
Everyone Knows
Something...



Dedicated to all zoology lovers....





Project preparation
department of Botany



Department of Geography