

Peer-Peer Mentoring Program

Student Learning Center, Hansraj College

Month and Year: March-April, 2022

Department: Zoology

Name of the Departmental Program Coordinator: Dr. Farhat Jahan

S. No	Name of the Mentor	Semester	Number of sessions	Date and Time (of each session)	Topics covered (in each session)	No. of Mentees attended (per each session)
1	Dhawal Jha	IV	1 (1.30 hrs)	3 April 2022 3:00 pm to 4:30 pm	Endoskeleton System	15
2	Mohammad Ayan Samad	IV	1 (1 hr)	9 April 2022 9:30 pm to 10:30 pm	Urinal System	16
3	Chirag Dhankar	IV	3 (3 hrs)	17 April 2022 5:00 pm to 6:00 pm	Crypto-currency	19
				24 April 2022 9:00 pm to 10:00 pm	T-Test and Z-Test	17
				1 May 2022 9 :00pm to 10:00 pm	Lowrys method, Biological Oxidation Method, Activity of Trypsin	18

Mentor 1: Mr. Dhawal Jha

Course: B.Sc (H) Zoology

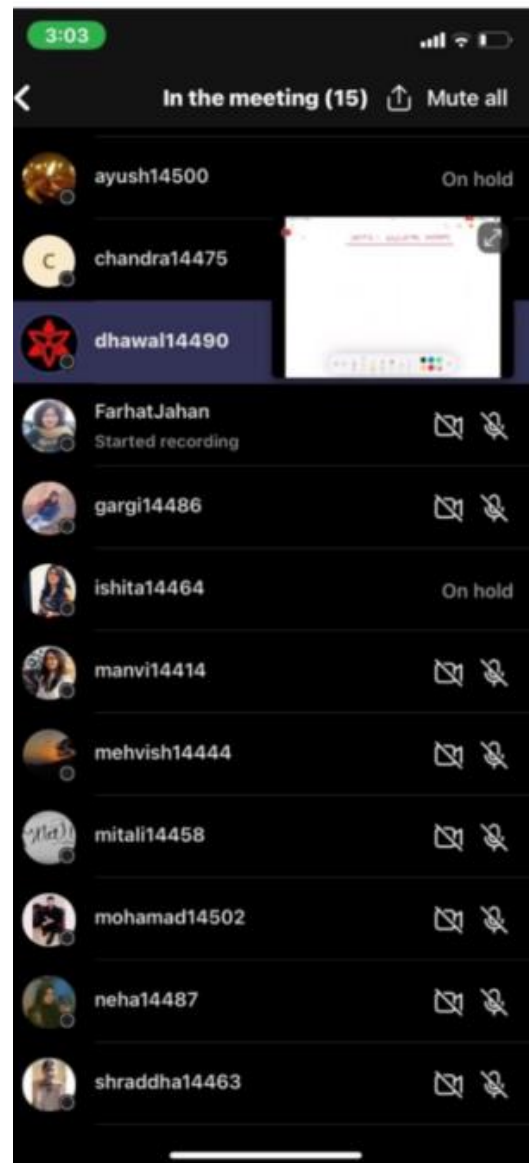
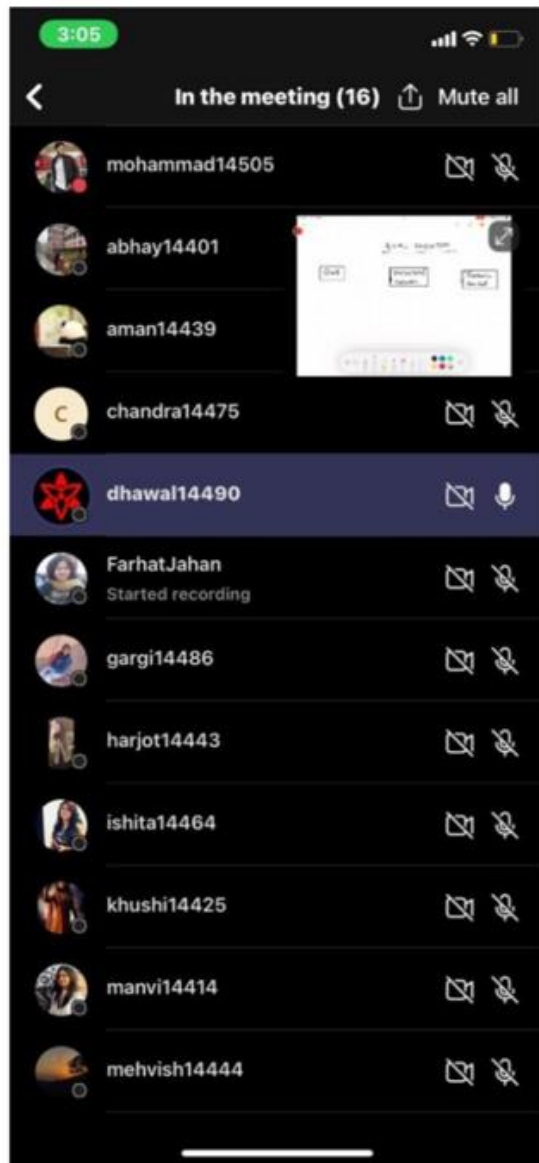
Current Sem: IV

Email id: dhawaljha123@gmail.com

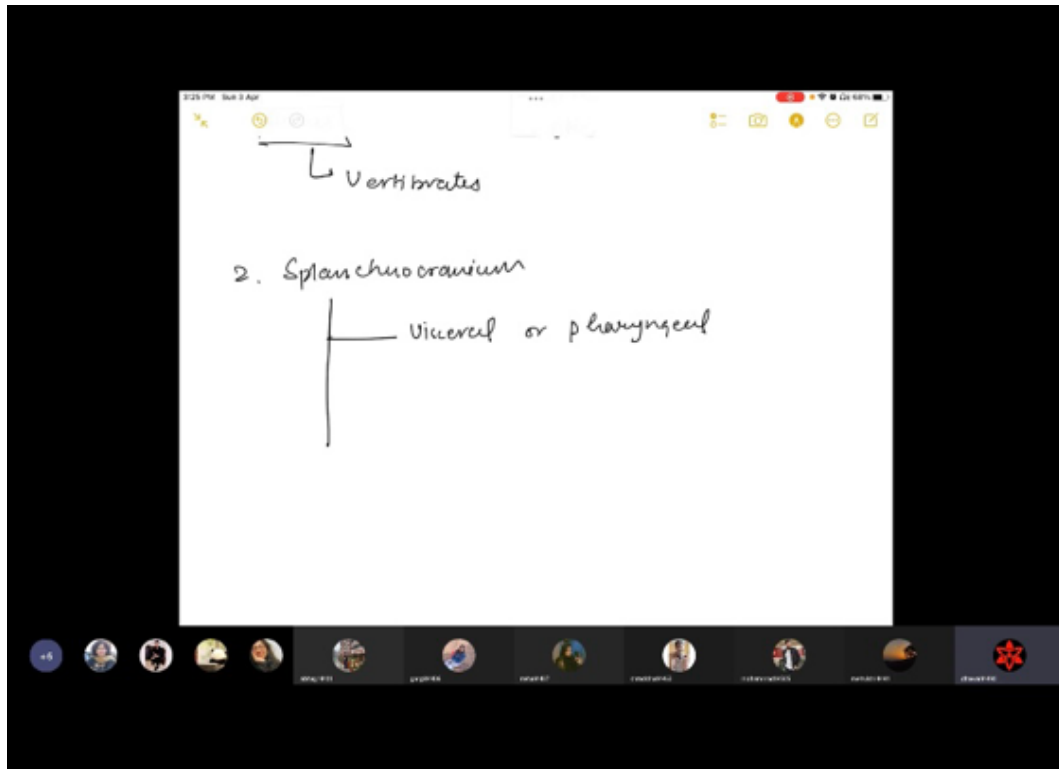


April 3rd, 2022: Topic: Comparative Anatomy of Vertebrates.

Attendance:



Pictures taken on MS Teams:



Mentor 2: Mr. Mohammad Ayan Samad

Course: B.Sc (H) Zoology

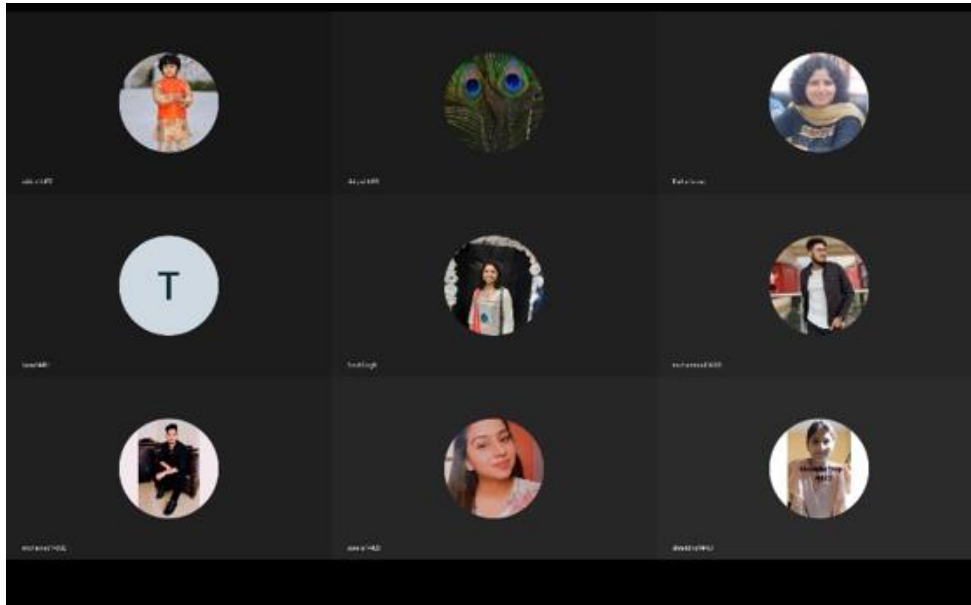
Current Sem: IV

Email id: Ayan8995@gmail.com

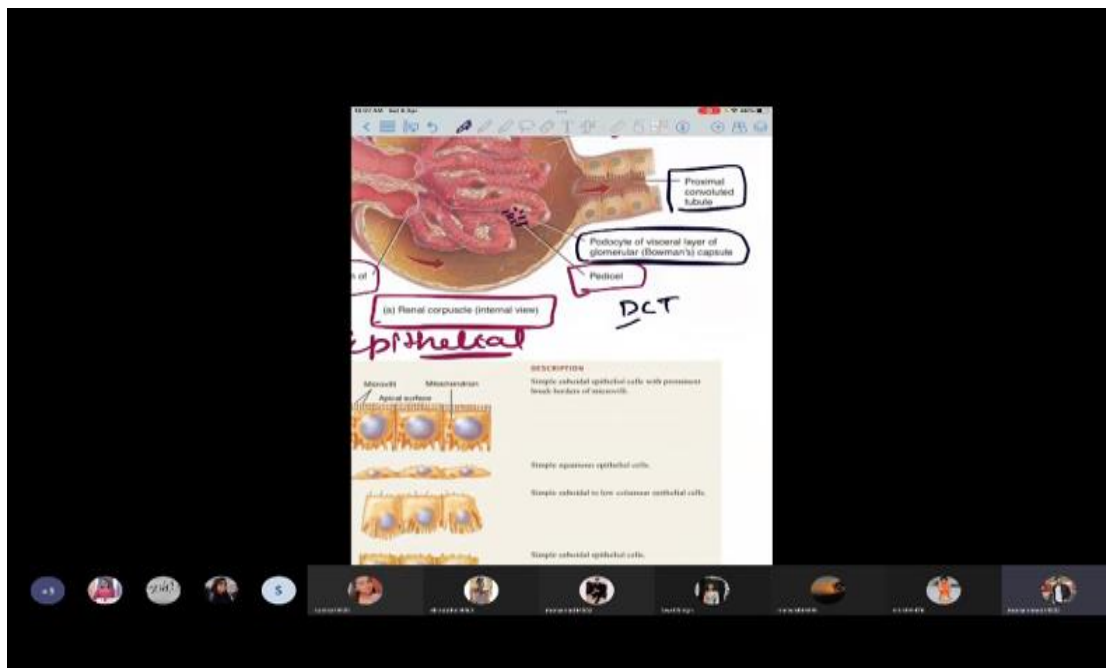


April 9, 2022: Topics: Renal Physiology of Physiology and controlling units.

Attendance:



Pictures taken on MSTEams:



Mentor 3: Mr. Chirag Dhankar

Course: B.Sc (H) Zoology

Current Sem: IV

Email id: Chiragdhankar07@gmail.com

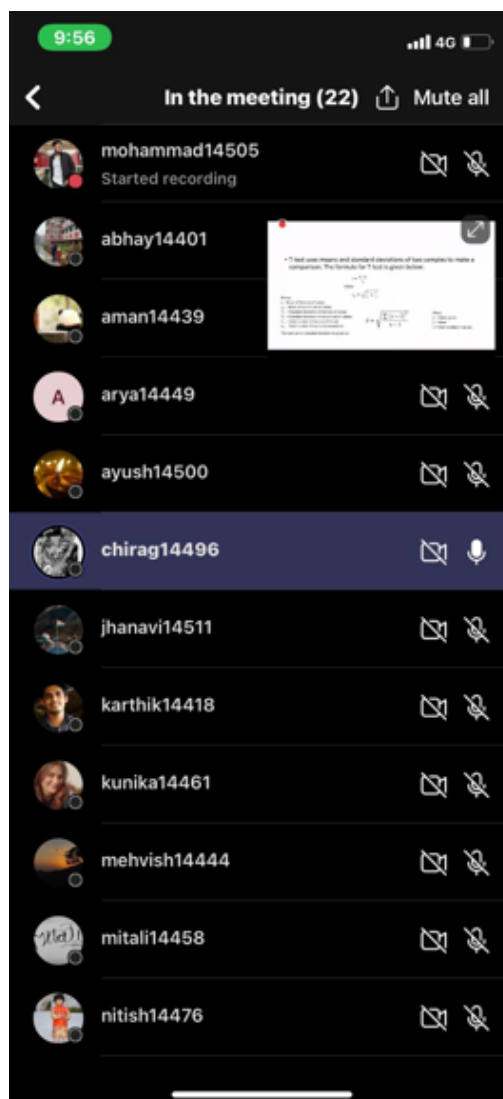
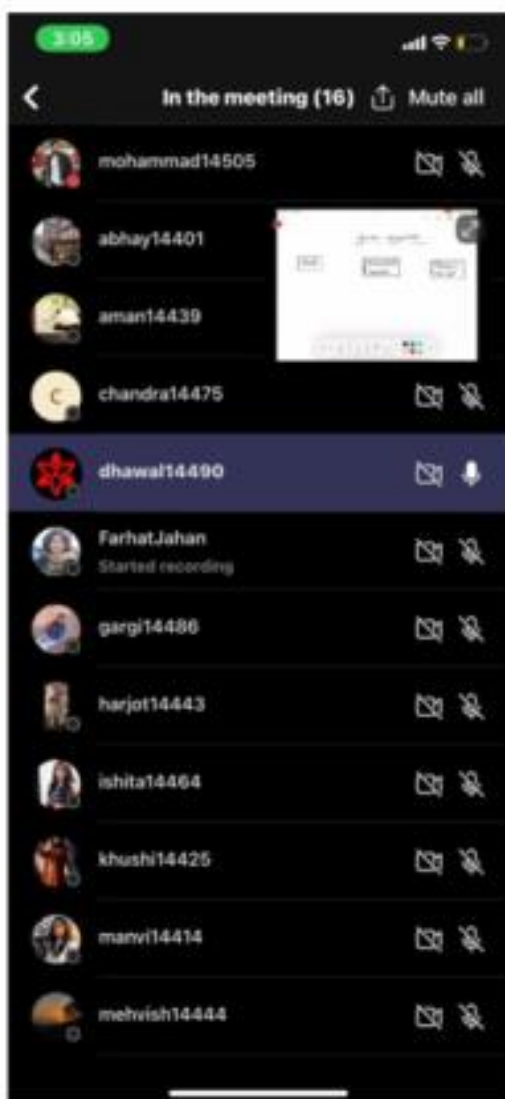


April 17th, 2022: Topics: CRYPTOCURRENCY (ABOUT BLCKCHAIN, BLOCK HALVING, MINING etc.)

April 24th, 2022: Topics: T AND Z TEST (WHEN TO APPLY, CONDIRTIONS, FORMULA, EXAMPLES, NUMERICALS)

May 1st, 2022: Topics: PROCEDURE OF THE EXPERIMENTS OF LOWERY'S METHOD OF PROTEIN ESTIMATION, ACTIVITY OF TRYPSIN, OXIDATION OF GOAT LIVER (SDH)

Attendance:



9:56 4G

In the meeting (22) Mute all

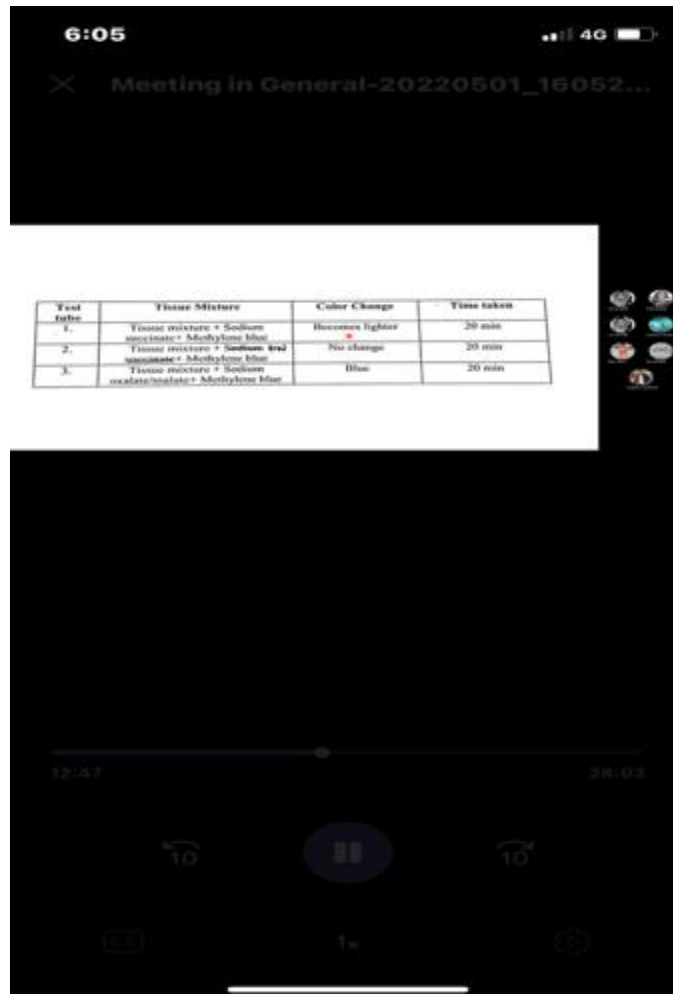
- mitali14458
- nitish14476
- PoojaArora
- sagar14413
- saloni14409
- shivani14456
- shraddha14463
- shreya14426
- siddhant14435
- sivank14484
- vani14447
- yashwant14501

3:03

In the meeting (15) Mute all

- ayush14500 On hold
- chandra14475
- dhawal14490
- FarhatJahan Started recording
- gargi14486
- ishita14464 On hold
- manvi14414
- mehvish14444
- mitali14458
- mohamad14502
- neha14487
- shraddha14463

Pictures taken on MSTeams:



T-score-

1) One sample T-test-

$$t = \frac{\bar{x} - \mu_0}{s/\sqrt{n}}$$

df = n-1

μ_0 = population mean

\bar{x} = mean of sample

s = standard deviation

\sqrt{n} = \sqrt{n} of sample

2) Two sample T-test : UNPAIRED T-test

$$t = \frac{\bar{x}_1 - \bar{x}_2}{\sqrt{s^2 \left(\frac{1}{n_1} + \frac{1}{n_2} \right)}}$$

$$t = \frac{\bar{x}_1 - \bar{x}_2}{SE} \quad (\text{where, } SE = \sqrt{s^2 \left(\frac{1}{n_1} + \frac{1}{n_2} \right)})$$

UNPAIRED T-test is used when two different sets of population are taken and tested for one variable.

If value of 's' is not given-

$$s^2 = \frac{\sum (x_1 - \bar{x}_1)^2 + \sum (x_2 - \bar{x}_2)^2}{n_1 + n_2 - 2}$$

s = standard deviation

x_1, x_2 = data set

n_1 = first sample size

n_2 = second sample size
degree of freedom = $n_1 + n_2 - 2$

*Degree of freedom is required for finding critical value from T-table.

$\alpha = '0.05'$ (if not given in question)

3) Two sample t-test - PAIRED T-test

$$t = \frac{\bar{D}}{s/\sqrt{n}}$$

df = n-1

$\bar{D} = \bar{x} - \bar{y}$

\sqrt{n} = \sqrt{n} of sample

s = standard deviation

If standard deviation is not given-

$$s = \sqrt{\frac{\sum D^2 - \frac{(\sum D)^2}{n}}{n-1}}$$

Paired T-test to be used when only one population is given multiple treatment.

Critical value / T score

Then, null hypothesis is rejected.

Critical value / T score

Then, null hypothesis is accepted.

