

**PHYSICS,
CHEMISTRY &
BIOLOGY
PRACTICAL LAB
COURSE 2026-27
For Class 12
[2nd Phase]**



DETAILS OF COURSE

- Experiments will be done according to the given specific dates and Time
- Students have to attend the classes on TUESDAY and FRIDAY.
- The data sheet of each of the experiment will be given to the students
- The questions of the Viva exam will be given to the students
- All the practical classes will be organized under the guidance of Mr. Subhadip Ray.

DATE & BATCH TIMING

Starting from 11th AUGUST 2026

INSTRUCTIONS

1. Seats are limited in the Batch.
2. No students will be admitted if the maximum number of seats is allotted in any batch
3. No students will be allowed to attend the practical without taking the Admission in Lab Course

Batch will be started from 11th AUGUST 2026

CHEMISTRY PRACTICAL TIME TABLE

DATE	TIME	EXPERIMENT
14/08/2026 [FRIDAY]	10 AM	Exp 1: Preparation of Standard Mohr's Salt Solution
	11.30 AM	Exp 1: Determine the Concentration and Strength of KMnO_4 Solution Using (M/20) Standard Mohr's Salt Solution.
	1 PM	Lunch Brake
	1.30 PM	Exp 2: To confirm the basic (cation) radicals in a given sample

DATE	TIME	EXPERIMENT
25/08/2026 [TUESDAY]	10 AM	Exp 3: To confirm the acidic (anion) radicals in a given sample.
	11.30 AM	Exp 4: To separate the basic (cation) and acidic (anion) radicals [Group Separation] for a given sample Exp 5: To perform the salt analysis of NH_4Cl
	1 PM	Lunch Brake
	1.30 PM	Exp 6: To perform the salt analysis of Pb_2NO_3 Exp 7: To perform the salt analysis of FeSO_4 Exp 8: To perform the salt analysis of ZnSO_4

DATE	TIME	EXPERIMENT
20/11/2026 [FRIDAY]	10 AM	Exp 9: To perform the salt analysis of $(\text{CH}_3\text{COO})_2\text{Ca}$ Exp 10: To perform the salt analysis of BaCl_2 Exp 11: To perform the salt analysis of $\text{Sr}(\text{NO}_3)_2$
	11.30 AM	Exp 12a: Identification of organic compound present in given organic compound Exp 12b: Identification of unsaturation in a given sample of organic compound. Exp 12c: Identification of alcoholic group in a given sample of organic compound. Exp 12d: Identification of ketone and aldehyde groups in an given sample of organic compound
	1 PM	Lunch Brake
	1.30 PM	Exp 12e: Identification of phenol in an given sample of organic compound. Exp 12f: Identification of amine group in an given sample of organic compound. Exp 12g: Identification of carboxylic acid group in an given sample of organic compound.

BIOLOGY PRACTICAL TIME TABLE

DATE	TIME	EXPERIMENT
18/08/2026 [TUESDAY]	10 AM	Exp 21. Study of Common Disease -Causing Organisms
	11.30 AM	Exp 1. To study the pollen germination on a slide Exp 14. To study the pollen germination and growth of pollen tube in a pollinated pistil (in Portulaca/grass or any other suitable flower)
	1 PM	Lunch Brake
	1.30 PM	Exp 15. To study and identify the stages of gamete development in mouse (mammal) i.e., T.S. of testis and L.S. of ovary through permanent slide Exp 17: To study T.S of blastula through permanent slide

DATE	TIME	EXPERIMENT
28/08/2026 [FRIDAY]	10 AM	Exp 7: To study population density and percentage frequency of different plant species of a given area. Exp 9. To study the action of salivary amylase on starch Exp 10. To study the effect of different temperatures on the activity of salivary amylase on starch Exp 11. To study the effect of different pH on the activity of salivary amylase on starch
	11.30 AM	Exp 13: To study flowers adapted to pollination by different agencies. Exp 20: To comment on the exercises of hybridization (Emasculation, tagging & bagging) through charts.
	1 PM	Lunch Brake
	1.30 PM	Exp 19. To study the prepared pedigree charts of genetic traits such as rolling of tongue, blood groups, widow's peak, colour blindness etc.

DATE	TIME	EXPERIMENT
24/11/2026 [TUESDAY]	10 AM	Exp 8: To prepare temporary acetocarmine stained mount of onion root tip to study various stages of mitosis. Exp 12: To study DNA isolation from a given plant material.
	11.30 AM	Exp 16. To study meiosis in grasshopper testis through permanent slide Exp 18: To study Mendelian inheritance using seeds of different colour/ size of any plant.
	1 PM	Lunch Brake
	1.30 PM	Exp 22: Study of two plants and animals found in xerophytic conditions and comment upon their adaptations/ morphological features. Exp 23: Study of two plants and animals found in aquatic conditions and comment upon their adaptations/ morphological features.

PHYSICS PRACTICAL TIME TABLE

DATE	TIME	EXPERIMENT
11/08/2026 [TUESDAY]	10 AM	Exp 1: To establish current-voltage relationship (Ohm's law) for a metallic conductor and find its resistance of the wire per unit length.
	11.30 AM	Exp 2: To find the specific resistance of a given wire by using meter bridge
	1 PM	Lunch Brake
	1.30 PM	Exp 3: Verify the combination of resistance in series by using meter bridge Exp 4: Verify the combination of resistance in parallel by using meter bridge

DATE	TIME	EXPERIMENT
21/08/2026 [FRIDAY]	10 AM	Exp 5: To find the resistance of a galvanometer and its figure of merit by the half deflection method
	11.30 AM	Exp 6: To convert a galvanometer of known resistance and known figure of merit in to a voltmeter Exp 7: To convert a galvanometer of known resistance and known figure of merit in to a ammeter
	1 PM	Lunch Brake
	1.30 PM	Exp 8: To find the values of 'v' for different values of 'u' for a Convex Lens and hence to find its focal length by plotting the graph between 'u' and 'v'

DATE	TIME	EXPERIMENT
17/11/2026 [TUESDAY]	10 AM	Exp 9: To find the refractive index of a glass slab by using travelling microscope
	11.30 AM	Exp 10: To find the refractive index of a liquid by using convex lens and plane mirror
	1 PM	Lunch Brake
	1.30 PM	Exp 11: To draw the V-I characteristic graph of the p-n junction diode in forward and reverse bias and hence to find the resistance in forward and reverse bias

Barasat Study Centre for Lab Admission

1st Floor, Aarin Tower, Helabottola, Kolkata-125

Location: <https://g.co/kgs/6NiY56x>

Barasat Practical Lab Campus for Practical

Arabindrapally, Barasat, Kolkata-125

Location: <https://g.co/kgs/pWqpfBn>



Dreamz Physics Practical Lab



Dreamz Chemistry Practical Lab



Dreamz Biology Practical Lab





DREAMZ EDUCATION CENTRE

Barasat Study Centre:

1st Floor, Aarin Tower, Helabottola, Kolkata-125

Location: <https://g.co/kgs/6NiY56x>

Barasat Practical Lab Campus:

Arabindrapally, Barasat, Kolkata-125

Location: <https://g.co/kgs/pWqpfBn>

Barrackpore Study Centre:

59, Feeder Road, Mondal para, Kolkata-120

Location: <https://g.co/kgs/46rJbWD>

PH: 9230527415, 8961945614, 9230419505
EMAIL: DREAMZEDUCATION07@GMAIL.COM
WWW.DREAMZKOLKATA.COM