

PATTAMUNDAI COLLEGE, PATTAMUNDAI



PRACTICAL CLASSES

PATTAMUNDAI COLLEGE, PATTAMUNDAI



PRACTICAL CLASSES

PATTAMUNDAI COLLEGE, PATTAMUNDAI



PRACTICAL CLASSES

PATTAMUNDAI COLLEGE, PATTAMUNDAI



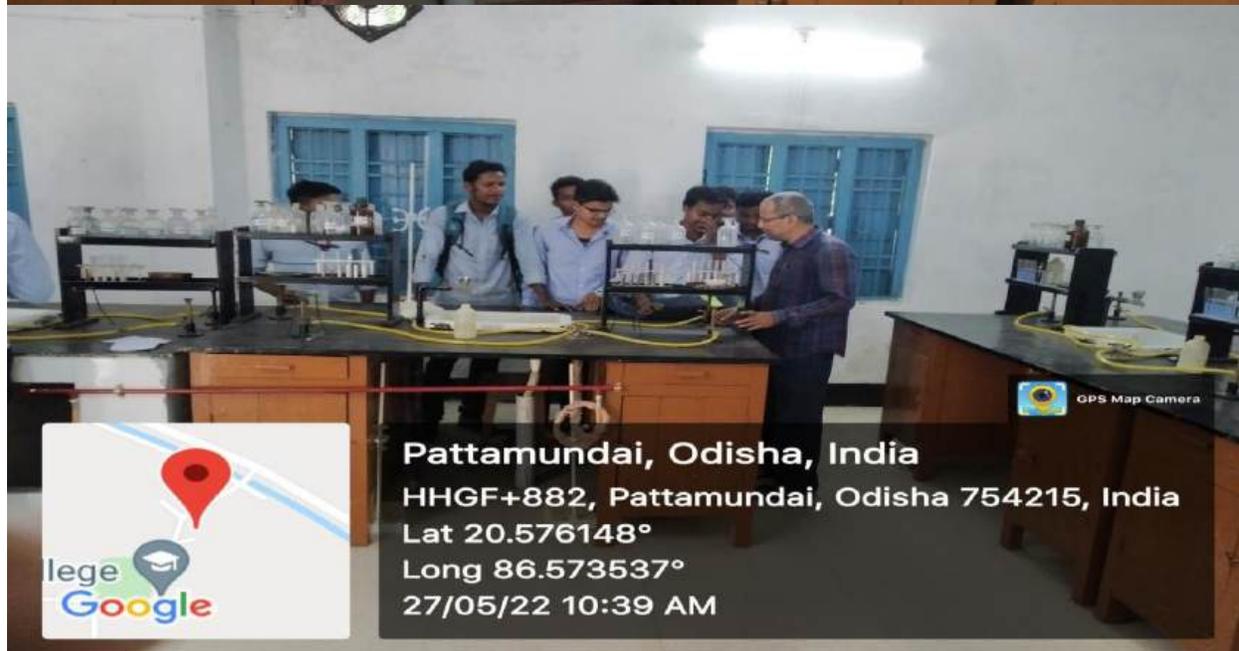
PRACTICAL CLASSES

PATTAMUNDAI COLLEGE, PATTAMUNDAI



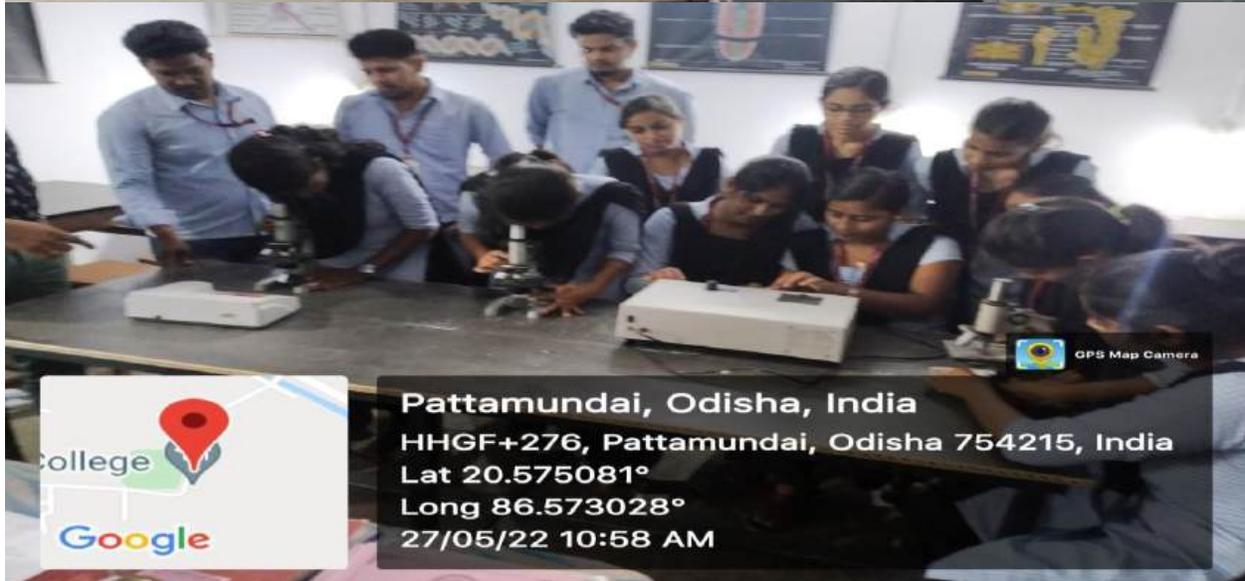
PRACTICAL CLASSES

PATTAMUNDAI COLLEGE, PATTAMUNDAI



PRACTICAL CLASSES

PATTAMUNDAI COLLEGE, PATTAMUNDAI



PRACTICAL CLASSES

PATTAMUNDAI COLLEGE, PATTAMUNDAI



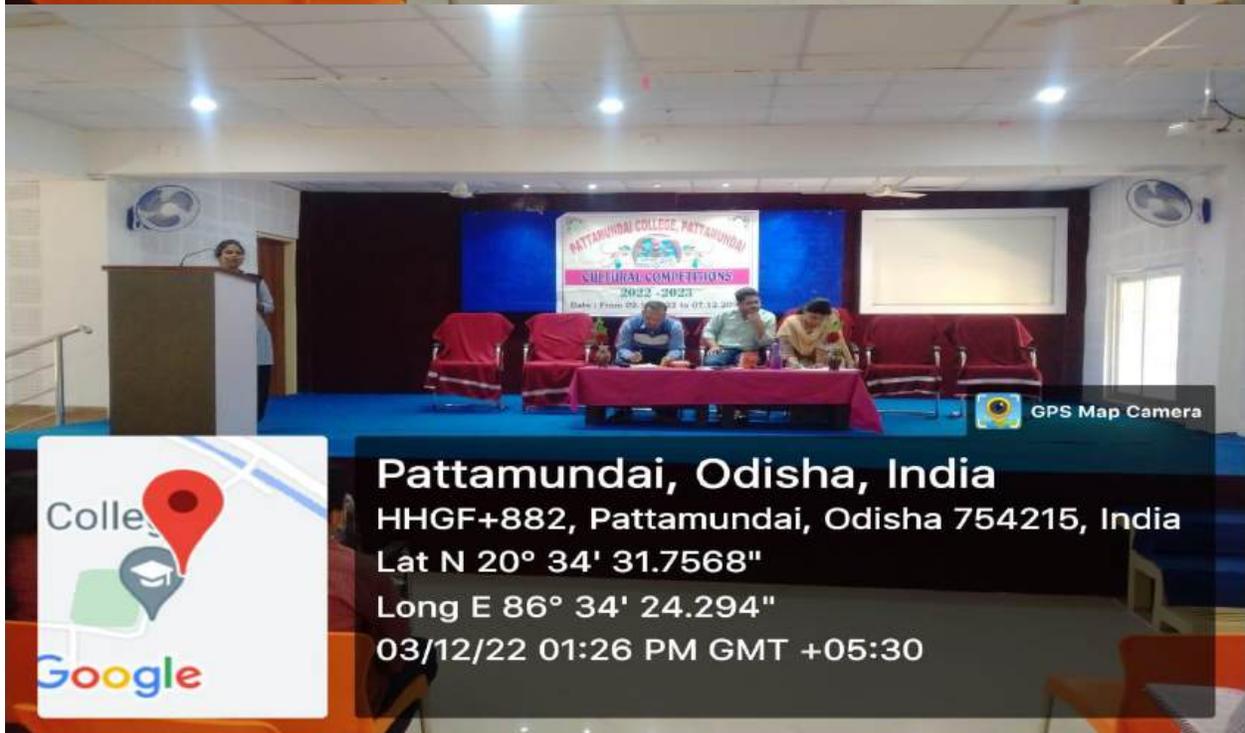
G.K COMPETITION AMONG STUDENTS

PATTAMUNDAI COLLEGE, PATTAMUNDAI



G.K COMPETITION AMONG STUDENTS

PATTAMUNDAI COLLEGE, PATTAMUNDAI



DEBATE COMPETITION AMONG STUDENTS

PATTAMUNDAI COLLEGE, PATTAMUNDAI



DEBATE COMPETITION AMONG STUDENTS

PATTAMUNDAI COLLEGE, PATTAMUNDAI



DEBATE COMPETITION AMONG STUDENTS



PATTAMUNDAI COLLEGE

PATTAMUNDAI, KENDRAPARA

SESSION 2022 -2023

CLASS ~~+2~~ ~~3rd year~~ ~~Second year~~
First year

+3 STREAM

LESSON PLAN AND PROGRESS REGISTER

(To be maintained by all members of teaching staff)

FULL NAME OF THE TEACHER Abhimanyu Mohanty

DESIGNATION Demonstrator

DEPARTMENT Botany

Abhimanyu Mohanty
Signature

PATTAMUNDAI COLLEGE

Pattamundai, Kendrapara

Affix
Photograph

BIODATA

1. Name : ABHIMANYU MOHANTY (Capital Letters)
2. Designation : Demonstrator
3. Date of Birth : 12.04.1982
4. Date of joining : 05.08.2010
5. Academic Qualification : M.Sc. in Botany

6. Academic achievement :

a) No. of Research Project completed :

b) No. of On-going Projects :

c) No. of Research Scholars :

(i) Completed Ph.D. :

(ii) Continuing Ph. D. :

(iii) Completed M.Phil.:

(iv) Continuing M.Phil :

7. Any distinctions / prizes / awards received :

8. No. of Books published : _____

9. No. of Research paper published & Communicated _____

10. Present Address : _____

Contact No. : Phone :/Mob. 9937892556

e-mail ID : abhimanyumohanty945@gmail.com

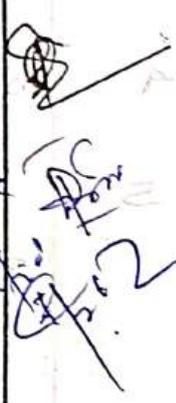
CONTENTS

Sl. No.	Class/ Semester	Paper/Unit	Topics assigned	Page No.
1	2	3	4	5
1	5th Sem C-11	Unit-1 Unit-2 Unit-3 Unit-4	Anther, pollen biology ovule structure pollination and fertilization	1
2	Core-12	Unit-1 Unit-2 Unit-3 Unit-4	Endosperm, polyembryony Plant water relationship Mineral nutrition Plant growth regulators	2
3	DSE-1	Unit-1 Unit-2 Unit-3 Unit-4	Physiology Imaging and related techniques	3
4	DSE-2	Unit-1 Unit-2 Unit-3 Unit-4	Cell fractionation Chromatography Biostatistics	4
5	3rd Sem Core-5	Unit-1 Unit-2 Unit-3 Unit-4	Natural Resources Biological Resources Renewable and non renewable sources Resource Accounting	5
6	Core-6	Unit-1 Unit-2 Unit-3 Unit-4	Plant Anatomy Stem organization Root organization Adaptive and protective system	6
7	Core-7	Unit-1 Unit-2 Unit-3 Unit-4	Cereals, Legumes and sugars Black pepper and clove oils, groundnut, Brassica Teak, Pine, cotton, Jute	7
8	3rd Sem Genetic 102	Unit-1 Unit-2 Unit-3 Unit-4	Mendelism and Extra-chromosomal inheritance Linkage, crossing over Inversion, Deletion. Blood type, ABO.	8
9	1st 3rd Sem Core-1 Core-2	Unit-1 Unit-2 Unit-3 Unit-4 Unit-1 Unit-2 Unit-3 Unit-4	Plant water relation Photosynthesis Enzymes Plant growth regulators Microbial world Bacteria → Cyanobacteria Algae → Chlorophyta Xenophyte	9
		Unit-2 Unit-3 Unit-4	Biomolecules Lipids, Proteins Cell organization	

LESSON PLAN

Class +3 3rd Year Subject Biology No. of Periods/Week
5th Sem Case II

Sl. No	Month	Paper & Unit	Topics to be covered	No. of classes required
1	November	Unit-I	Anther pollen biology	3
2	November	Unit-II	Ovule structure	3
3	November	Unit-III	Pollination and fertilization	2
4	December	Unit-IV	Endosperm and polyembryony	3
6	Jan 2.12.22		<u>DSE-II</u> Estimation of solid waste	
7	Jan 4.12.22		Collection of data on forest cover of specific area	


 Signature of Teacher

Prepared by: Sumesh Bish

Abhinav Mohan
 Signature of Teacher

Core-11 PROGRESS

Class 5th Semester

Subject

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D./ Principal
1	14.11.22	9.15	Slide and photograph of MMC, pollenia of Calotropis	AZL	
2	15.11.22	9.15	Anatropous ovule, orthotropous ovule, campyotropous ovule	AZL	
3	21.11.22	9.15	photograph of Egg apparatus, Female gametophyte	AZL	
4	25.11.22	9.15	Slide of Dicot embryo and Monocot embryo	AZL	
5	26.11.22	9.15	Structure of endosperm	AZL	
6	2.12.22	10AM	Photograph of double fertilization	AZL	Verified
7	4.12.22	10AM	Structure of suspensor	AZL	

LESSON PLAN

Class: 11th Science Subject: Biology No. of Periods/Week: 12

Sl No	Month	Paper & Unit	Topics to be covered	No. of classes required
1	DEC 5.12.22		To determination of osmotic potential of plant cell by plasmolytic method	1
2	DEC 6.12.22		To study the effect of wind velocity and light on the rate of transpiration in supplied twig	1
3	DEC 17.12.22		To calculate the stomatal index and percentage of leaf area through stomata in a mesophyte and xerophyte	1
4	DEC 19.12.22		To study the phenomenon of seed germination	1
5	DEC 20.12.22		To determination of water potential of given tissue by weight method.	1
6	DEC		DSB-1 Chromosomal study	1
7	DEC		Chromosomes	1
8	DEC		Thin layer chromatography	1

Counter Signature by HOD

Athimayya Mahalingam
Signature of Teacher

PROGRESS

Class: 11th Science Subject: Biology

Sl No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of HOD/Principal
1	5.12.22	10AM	To determination of osmotic potential of plant cell by plasmolytic method	M	
2	6.12.22	10AM	To study the effect of wind velocity and light on the rate of transpiration in supplied twig	M	
3	17.12.22	10AM	To calculate the stomatal index and percentage of leaf area through stomata in a mesophyte and xerophyte	M	
4	19.12.22	10AM	To study the phenomenon of seed germination	M	
5	20.12.22	10AM	To determination of water potential of given tissue by weight method.	M	

PROGRESS

Class: <u>12th</u> <u>Sem</u>			Subject: <u>Botany (A)</u> <u>1254</u>		
Sl. No.	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of HOD/Principal
1	8.12.22	10AM	To study of differential techniques for chromosome study	<u>Ad</u>	
2	9.12.22	10AM	To separate pigments by paper chromatography	<u>Ad</u>	
3	23.12.22	10AM	To separate phytochemicals by thin layer chromatography	<u>Ad</u>	
4	13.01.23	10AM	To estimate proteins through Lowry's method	<u>Ad</u>	
B	17.2.23	10AM	To study of PCR demonstration	<u>Ad</u>	
C	20.2.23	10AM	To separate proteins using PAGE	<u>Ad</u>	
7	21.2.23		To study and separate DNA using AGE	<u>Ad</u>	

PROGRESS

Class: <u>12th</u> <u>Sem</u>			Subject: <u>Botany (A)</u> <u>1254</u>		
Sl. No.	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of HOD/Principal
1	2.12.22	10AM	Estimation of soil loss generated by a domestic system and its impact on land degradation.	<u>Ad</u>	
2	4.12.22	10AM	Collection of data on forest cover of the area	<u>Ad</u>	
3	12.1.23	10AM	To calculate and analysis of biological diversity	<u>Ad</u>	
4	17.2.23	10AM	To estimation of soil moisture content and texture	<u>Ad</u>	
5	20.2.23	10AM	To estimation of soil porosity of soil sample	<u>Ad</u>	
6	21.2.23	10AM	To estimation of soil water holding capacity	<u>Ad</u>	

LESSON PLAN

Class 3rd Sem Subject Botany Core-5,6,7 No. of Periods/Week

Sl. No	Month	Paper & Unit	Topics to be covered	No. of classes required
1	Nov	Unit-I	Plant Anatomy	2
2	Nov	Unit-II	Stem organisation	2
3	Nov	Unit-III	Root organisation	2
4	Dec	Unit-IV	Adaptive and protective System.	2
5	Dec	Unit-I	Cereals and Legumes	3
6	Dec	Unit-II	Black pepper and clove	2
7	Dec	Unit-III	Oils, groundnut	2
8	Dec	Unit-IV	Teak, Pine, Cotton, Jute	3
9	Dec	Unit-I	Mendelism	1
10	Dec	Unit-II	Linkage and crossing over	2
11	Dec	Unit-III	Inversion and deletion	2
12	Dec	Unit-IV	Blood type and ABO	1
13	Dec	Unit-I	Plant water relation	2
14	Dec	Unit-II	Photosynthesis	2
15	Dec	Unit-III	Enzymes	2
16	Dec	Unit-IV	Plant growth regulation	2

Counter Signature by HOD

Athimangal Mathy
Signature of Teacher

PROGRESS Core-5

Class 3rd Sem Subject Botany

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
1	5.11.22	10AM	Study of parenchyma, collenchyma and sclerenchyma.	At	
2	12.11.22	10AM	Study of xylem fibre and companion cells	At	
3	26.11.22	10AM	Study of stomatal type	At	
4	30.11.22	10AM	Study of heart wood and sap wood	At	
5	30.11.22	12.15 PM	Study of monocot root and monocot stem	At	
6	3.12.22	9.15 AM	Study of secondary growth in cucurbit stem.	At	
7	3.12.22	11.15 AM	Study of monocot root and dicot root	At	
8	3.12.22	1.15 PM	Study of scirpian stem.	At	

PROGRESS

Corse-6

Sl No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D./Principal
1	3.12.22	9:15 AM	Morphology of wheat and Rice plant	AZL	
2	3.12.22	11 AM	Study of starch grain from surried potato tuber	AZL	
4	10.12.22	10 AM	Study of Blackgram and coconut plant	AZL	
5	12.12.22	10 AM	Study of potato tuber and T.S of potato	AZL	
6	11.12.22	10 AM	Study of Jute and Cotton plant	AZL	
7	14.12.22	10 AM	Study of Tea and coffee Corse-6	AZL	
8	15.12.22	10 AM	Mendel's laws through seed ratios	AZL	
9	17.12.22	10 AM	Study of incomplete dominance and gene interactions through seed ratios 9:7	AZL	
10	24.12.22	9:15 AM	Study of incomplete dominance and gene interactions through seed ratios 15:1	AZL	

PROGRESS

Sl No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D./Principal
1	10.11.22	10 AM	To determine the osmotic potential of plant cell sap by plasmolytic method	AZL	
2	17.11.22	10 AM	To calculate stomatal index and stomatal frequency of surried leaf	AZL	
3	20.11.22	9:15 AM	To study the effect of two environmental factors on transpiration by surried leaf	AZL	
4	8.12.22	10 AM	To study the effect of light intensity in photosynthesis by Willemott's bubbles	AZL	
5	20.12.22	10 AM	To study the effect of NaHCO ₃ concentration on O ₂ evolution in photosynthesis by Willemott's bubbles	AZL	

PROGRESS

Class 2nd / Sem

Subject Biology

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D./ Principal
1	17.11.22	11:30 AM	To Analyze of allele and genotypic frequencies	<i>AS</i>	
2	8.12.22	11:30 AM	To study incomplete dominance 9:7	<i>AS</i>	
3	8 ¹⁰ .12.22	11:30 AM	To study incomplete dominance 9:6:1	<i>AS</i>	
4	13.12.22	11:30 AM	To study incomplete dominance 9:3:4	<i>AS</i>	
5	9.1.23	11:30 AM	Blood typing and Rh factor	<i>AS</i>	

LESSON PLAN

Core-13

Class 6th Same Subject Botany No. of Periods/Week

Sl. No.	Month	Paper & Unit	Topics to be covered	No. of classes required
1	Feb	Unit-1	Isolation and quantization of photosynthetic pigments	
2			Experimental demonstration of Hill reaction.	
3			To study the effect of light intensity on the rate of photosynthesis.	
4		Core-14	Preparation of tissue culture (MS) medium	
5			Study of anther culture through photographs.	
6			Study of Bt cotton through photographs.	
7		DSG-III		
7		DSG-IV	Determination of BOD, COD, TDS, TOC	
8			Hands on sterilization techniques & preparation of culture media	

Counter Signature by HOD

Abhinav Mohan
Signature of Teacher

PROGRESS Core-13

Class 6th Same Subject Botany

Sl. No.	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D./Principal
1	1.02.23	10:30	To isolate and quantization of photosynthetic pigments	Aa	
2	2.3.23	10:30	To demonstration of Hill reaction	Aa	
3	11.3.23	10:30	To study the effect of light intensity on the rate of photosynthesis	Aa	
4	17.3.23	11:00	To study the effect of carbon dioxide on the rate of photosynthesis		
5	22.3.23	11:00	To study the rate of respiration in different parts of a plant	Aa	
6	27.3.23	11:00	To demonstration of absorption of photosynthetic pigments.	Aa	

PROGRESS

Core-14

Class 6th Sem Subject Botany

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
1	2.4.23		To preparation of tissue culture medium	<u>Ad</u>	
2	4.4.23		To study of Anther culture	<u>Ad</u>	
3	10.4.23		To study of Bt cotton through photographs	<u>Ad</u>	
4	16.4.23		To isolation of Plasmid DNA	<u>Ad</u>	
5	20.4.23		To demonstration of Gel electrophoresis	<u>Ad</u>	

PROGRESS

DSE-3

Class 6th Sem Subject Botany

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
1	10.4.23	11Am	Write the ornamental plants like Hibiscus, Marigold	<u>Ad</u>	
2	12.4.23	11Am	Study of grafting Cutting method	<u>Ad</u>	
3	16.4.23	11Am	Study of Budding method	<u>Ad</u>	
4	20.4.23	11Am	Study of methods of fruit preservation	<u>Ad</u>	
5	22.4.23	11Am	Study of Tissue Culture technique	<u>Ad</u>	

PROGRESS

Core-1

Class 12th Semester Subject Botany

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D./ Principal
1	19/10/22 16/22	10:30 AM	Model of T-page Structure of TMV	<u>Ad</u>	
2	5/11/22	10:30 AM	Structure of Endo Spore in Bacteria	<u>Ad</u>	
3	13/11/22	10:30 AM	Thallus structure of Nostoc, Chlamydomonas, Volvox.	<u>Ad</u>	
4	16/12/22	11 AM	Thallus of Vaucheria, Ectocarpus	<u>Ad</u>	
5	26/12/23	11 AM	Thallus of Fucus and polysiphonia	<u>Ad</u>	
6	21-3-23	11 AM	Thallus of diatoms	<u>Ad</u>	
7	24/3/23	11 AM	Thallus of prochloron	<u>Ad</u>	

PROGRESS

Core-2

Class 12th Semester Subject Botany

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D./ Principal
1	17-12-22	10 AM	Study of Plant Cell of Rhoea leaf	<u>Ad</u>	
2	11-2-23	10 AM	To demonstration of the phenomenon of protoplasmic stream in Hydrilla leaf	<u>Ad</u>	
3	17-2-23	10 AM	Study of phenomenon of plasmolysis	<u>Ad</u>	
4	21-3-23	10 AM	Study of properties of Antozoy	<u>Ad</u>	
5	21/1/23	10 AM	Study of metaphase of mitosis	<u>Ad</u>	

LESSON PLAN

Class: VII, A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

Subject: Biology No. of Periods/Week: 5

Sl. No	Month	Paper & Unit	Topics to be covered	No. of classes required
1	Dec	Unit-I	Microbes	3
2	Feb	Unit-2	Algae	4
3	April	Unit	Fungi	3
			Protozoa	2
4		Geography - 12	Biological factors	2
5		Unit-11	Ecology	2
6		Unit-12	Function of stem	2

Counter Signature by HOD

Abhimanyu Mehta
Signature of Teacher

PROGRESS

Class: VII, A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

Subject: Biology

Sl. No	Date	Time	Topic covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of Student/Principal
1	14/12/23	10hr	Structure of Microbes of Kingdom of Monera	AS	
2	28/12/23	10hr	Thallus of unicellular algae, autotrophic	AS	
3	10/1/24	10hr	Structure of diatoms, radiolarians and other elements	AS	
4	19/1/24	10hr	Asexual stages of Rhizopus	AS	
5	14/2/24	10hr	Germination of Penicillium	AS	
6	16/3/24	10hr	Leptodermis and Terrestrial space of Fungi	AS	
7	20/3/24	10hr	Growth of Agaricus	AS	
8	22/3/24	10hr	Thallus of Mucor, Rhizopus, Penicillium and Aspergillus	AS	
9	24/3/24	10hr	T.S. of stem of Pteridophyte fern stem → T.S. of stem of Selaginella.	AS	
10	25/3/24	10hr	Male cone of cycas → female cone of Pinus	AS	

PROGRESS

Class 12 Semester 1 Subject Biology

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D./Principal
1	14.2.23	11:30 AM	To a determination of osmotic potential of plant cell sap by plasmolytic method.	<i>AS</i>	
2	29.12.22	11:30 AM	To calculation of stomatal index of a mesophyte and xenophyte.	<i>AS</i>	
3	10.1.23	11:30 AM	To demonstration of Hill reaction	<i>AS</i>	
4	13.2.23	11:30 AM	To calculation of stomatal frequency	<i>AS</i>	
5	14.2.23	11:30 AM	To study the effect of pH and enzyme concentration	<i>AS</i>	
6	16.2.23	11:30 AM	To study the effect of light intensity on O_2 evolution in photosynthesis.	<i>AS</i>	<i>AS</i>
7	20/3/23	11:30 AM	To study the bicarbonate concentration on O_2 evolution in photosynthesis.	<i>AS</i>	<i>AS</i>



PATTAMUNDAI COLLEGE

PATTAMUNDAI, KENDRAPARA

SESSION 20 22 - -20 23.

CLASS +3 1st yr, +3 2nd yr, +3 2nd yr.

+3 STREAM

LESSON PLAN AND PROGRESS REGISTER

(To be maintained by all members of teaching staff)

FULL NAME OF THE TEACHER Satyabrata Biswal

DESIGNATION Demonstrator in physics

DEPARTMENT physics

Satyabrata Biswal
Signature

PATTAMUNDAI COLLEGE
Pattamundai, Kendrapara

Affix
Photograph

BIODATA

1. Name : Satyabrata Prasad (Capital Letters)

2. Designation : Demonstrator in physics

3. Date of Birth : 05.02.1980.

4. Date of joining : 05.08.2010.

5. Academic Qualification : M.Sc (physics)

6. Academic achievement :

a) No. of Research Project completed :

b) No. of On-going Projects :

c) No. of Research Scholars :

(i) Completed Ph.D. :

(ii) Continuing Ph. D. :

(iii) Completed M.Phil.:

(iv) Continuing M.Phil :

7. Any distinctions / prizes / awards received :

8. No. of Books published : _____

9. No. of Research paper published & Communicated _____

10. Present Address : At- Nahiadia,
P.O- Dandisahi, Dist- Kendrapara
Odisha, pin- 754240.

Contact No. : Phone : / Mob. 9937195316

e-mail ID : puchanali@gmail.com.

CONTENTS

Sl. No.	Class/ Semester	Paper/Unit	Topics assigned	Page No.
1	2	3	4	5

1st Semester

Core-I

Computer programming

Core-II

1. To study Surface tension by capillary rise method.
2. To determine height of a building using sextant
3. To study the motion of Spring and calculate (a) Spring constant (b) g and (c) modulus rigidity
4. To determine moment of inertia of a flywheel.
5. To determine the value of g using bar pendulum
6. To determine value of g by Kater's pendulum

2nd Semester

Core-III

1. To determine low resistance using potentiometer
2. To determine an unknown low resistance using Carey-foster's Bridge.
3. To compare capacitance using DeSauty Bridge
4. Measurement of field strength B and its variation.

Core-IV

1. To plot the I-D Curve and $\frac{dI}{dD}$ to determine the refractive index of a prism.
2. To determine the wave length of sodium light using Newton's ring.

LESSON PLAN

Class 12th (An) / 2nd yr Subject Physics No. of Periods/Week

Sl. No.	Month	Paper & Unit	Topics to be covered	No. of classes required
	1st Semester	Core-VI	1. To determine the co-efficient of thermal conductivity by lead conductor by Lee and Charle's method. 2. To determine temperature co-efficient of resistance by platinum resistance thermometer. 3. To determine J by calorimeter.	
		Core-VII	1. To study the V-I characteristics of a Zener diode and its use as voltage regulator. 2. Study of V-I and power curve of solar cell and find maximum power point and efficiency. 3. To study the characteristics of a Bipolar Junction transistor in CE Configuration.	
	2nd Semester	Core-VIII	1. To show the tunneling effect in tunnel diode using I-V characteristics. 2. To determine Planck's Constant of LEDs of at least 4 different colours.	
		Core-IX	1. To verify and design AND, OR, NOT and XOR gate using NAND gate. 2. Half Adder, Full Adder and 4-bit Serial adder. 3. To build Flipflop circuit using NAND gates. 4. Half Subtractor, Full Subtractor Adder-Subtractor using full adder IC.	

Behl
Counter Signature by HOD

Satyabrata Biswal
Signature of Teacher

PROGRESS

Class 12th (An) / 2nd yr Subject Physics

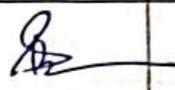
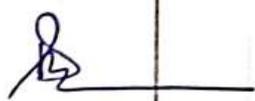
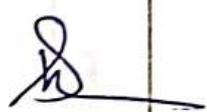
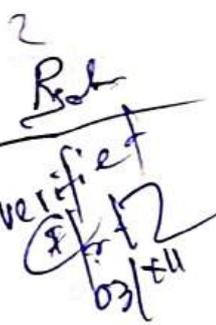
Sl. No.	Class/ Paper	Time (aper)	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of HOD/ Principal
	Fifth Semester	Core-VI	1. To draw the BH curves of Fe using Solenoid and to determine the energy loss from the hysteresis. 2. To measure the band gap of a given Semiconductor by Four-probe method.		
	Sixth Semester	Core-VIII	1. To determine the specific rotation of sugar solution using polarimeter. 2. To verify Stefan's law of radiation and determine Stefan's Constant.	Verified <u>Behl</u>	<u>Behl</u>

PROGRESS

Class +3 Ist Semester

Subject

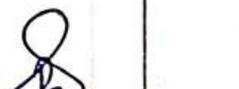
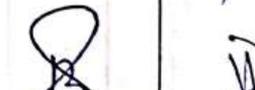
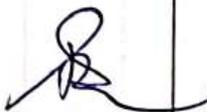
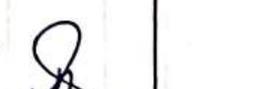
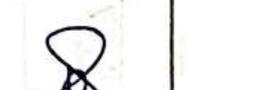
Physics

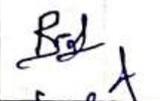
Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
1.	18.11.2022		Moment of inertia of a fly wheel		
2.	19.11.2022		To determine the value of g using bar pendulum		
3.	25.11.2022		To determine the value of g using Kater's pendulum		
4.	26.11.2022		Moment of inertia of a fly wheel. (repeat)		
5.	02.12.2022		To determine the value of g using bar pendulum (repeat)		
6.	03.12.2022		To determine the value of g using Kater's pendulum (repeat)		 verified 03/12/22

PROGRESS

Class f3 2nd Semester

Subject physics

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
1.	01.07.2023		To determine low resistance using potentiometer		
2.	07.07.2023		To determine unknown low resistance by using Carey foster's bridge		
3.	22.07.2023		To Compare Capacitance using Desauty bridge		
4.	28.07.2023		Measurement of field strength B and its variation in a Solenoid. (determine dB/dx)		
5.	11.08.2023		To determine low resistance using potentiometer (repeat)		
6.	12.08.2023		To determine unknown low resistance by using Carey foster's bridge		
7.	18.8.2023		To Compare Capacitance using Desauty bridge (repeat)		
8.	28.8.2023		Measurement of field strength B and its variation in a Solenoid (determine dB/dx) (repeat)		

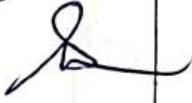
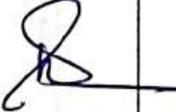
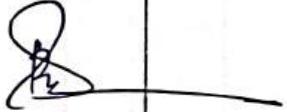

 Verified

 25/8/23

PROGRESS

Class +3 3rd Semester

Subject Physic

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
1.	04.11.2022		To determine the Coefficient of thermal conductivity by bad conductor by Lee and Charlton's disc method.		
2.	14.11.2022		To determine temperature Co-efficient of resistance by platinum resistance thermometer		
3.	15.11.2022		To determine J by calorimeter		
4.	28.11.2022		To determine the Co-efficient of thermal conductivity by bad conductor by Lee and Charlton's method (repeat)		
5.	29.11.2022		To determine temperature Co-efficient of resistance by platinum resistance thermometer (repeat)		
6.	5.12.2022		To determine J by Calorimeter (repeat)		
7.	6.12.2022		To study VI Characteristics of Zener diode and its used as voltage regulator		 6/12/22

PROGRESS

Subject

Class

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
8.	19.12.2022		To Study VI and power curve of solar cells and find power point and efficiency		
9.	20.12.2022		To study the characteristics of Bipolar Junction transistor in CE configuration		
10.	02.01.2023		To Study VI and power curve of solar cells and find power point and efficiency (repeat)		
11.	03.01.2023		To study the characteristics of Bipolar Junction transistor in CE configuration (repeat)		 Verified  03/01/23

PROGRESS

Class 13 4th semester Subject Physics

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D./Principal
1	10/4/2023		To show the tunneling effect in tunnel diode using I-V characteristics		
2	12-4-2023		To determine Planck's constant of LEDs of at least four different colours		
3	15/4/2023		To show the tunneling effect of tunnel diode using I-V characteristics (repeat)		
4	25/4/23		To determine Planck's constant of LEDs of at least four different colours (repeat)		
5	01-05-2023		To verify design AND, OR, NOT and XOR gate using NAND gate		

PROGRESS

Class _____ Subject _____

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D./Principal
6	02-05-2023		Half adder, full adder and 4-bit binary adder		
7	26-06-2023		To build flip-flop circuit using NAND gate		
8	27-06-2023		Half subtractor, full subtractor, Adder-subtractor using Full adder I.C		
9	03-7-23		Half adder, Full adder and 4-bit binary adder (repeat)		
10	04-03-2023		To build flip-flop circuit using NAND gate (repeat)		

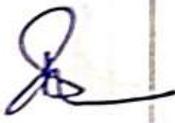
Verified

09/11/23

PROGRESS

Class +3 5th Semester

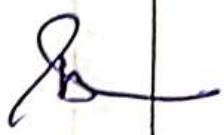
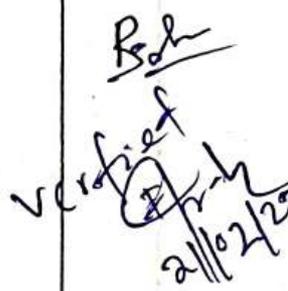
Subject Phyisy

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
1	10.10.2022		To draw BH Curve of Fe using Solenoid to determine energy loss from Hysteresis		
2.	11.10.2022		To measure band gap of a given Semiconductor by four-probe method.		
3.	17.10.2022		To draw BH Curve of Fe using a Solenoid to determine energy loss from Hysteresis (repeat)		
4.	18.10.2022		To measure band gap of a given Semiconductor by four-probe method (repeat)		 Verified  15/11/22

PROGRESS

Class +3 6th Semester

Subject physic

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
1.	13.02.2023		To determine specific rotation of sugar solution using polarimeter		
2.	14.02.2023		To verify Stefan's law of radiation and determine Stefan's Constant		
3.	20.02.2023		To determine specific rotation of sugar solution using polarimeter (repeat)		
4.	21.02.2023		To verify Stefan's law law of radiation and determine Stefan's Constant (repeat)		 verified 21/02/23

**STUDY TOUR CUM FIELD VISIT
ICAR, NRRI, CUTTACK.**



ON

Dt. 24.02.2023

Organised by

DEPARTMENT OF CHEMISTRY
PATTAMUNDAI COLLEGE, PATTAMUNDAI
DIST-KENDRAPARA, ODISHA, PIN-754215



OFFICE OF THE PRINCIPAL

Mobile : 9437376724

PATTAMUNDAI COLLEGE

NAAC ACCREDITED B GRADE

PATTAMUNDAI, KENDRAPARA, ODISHA - 754215

Ref No. : 236

Date..... 21/02/2023

To

The Director
ICAR-National Rice Research Institute,
Bidyadharpur Cuttack.

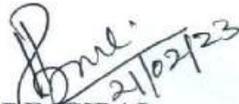
SUB: - Exposure Visit of Chemistry Hons students of this institution on 24.02.2023.

Esteemed Sir

I have the honour to intimate you that, the students of **Chemistry Honours** of this institution are expected to visit to your institution on 24.02.2023 as a part of exposure visit.

Necessary permission may kindly be given at your end as early as possible.

With Regards


21/02/23

PRINCIPAL

Pattamundai College, Pattamundai

Compose

Inbox 124

Starred

Snoozed

Important

Chats

Sent

Drafts 20

All Mail

Spam 88

Trash

Categories

Social 1,741

Updates 88

Forums

Promotions 1,932

More

Labels

Thanks for your permission .

12:42 PM (C)



Principal Pattamundai College <pattamundaicollege@gmail.com>
to director@rricutack, director.cri

Respected Sir,

I am extremely thankful to you and your staff for your permission and necessary guidance during field visits by students and faculties of this institution on 24-02-2023.

Thanking You

**Principal
Pattamundai College**
pattamundaicollege@gmail.com

Reply all Reply Forward

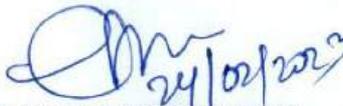
STUDY TOUR CUM FIELD VISIT

Department of Chemistry

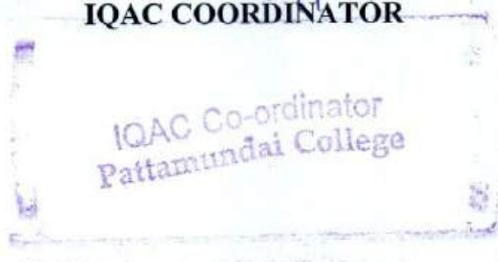
REPORT

The students of department of chemistry visited **ICAR – NATIONAL RICE RESEARCH INSTITUTE**, Cuttack on 24-02-2023 as **STUDY TOUR CUM FIELD VISIT** programme as part of their curricular activities. Twenty two students with two faculty members reached the institution at 10 A.M. on that day which was pre scheduled with kind negotiation of the director Dr. A.K. Nayak, Principal Scientist ICAR – NRRI, Cuttack. He gladly welcomed the students as well as the faculty members with their team of experts who cooperated the team with details different activities undergoing inside the institution. First he allowed the students to visit the beautiful museum where different kinds of hybrid paddies, rice, cereals were displayed. Then the team visited rice processing units where students learnt about the details of processing of paddies to fine quality rice. Also the team visited the instrumentation center to get information about functioning of instruments like NC Soil Analyzer, FTIR, Gas Chromatography, Open Top Chambers, Eddy Covariance System, ICP-MS, and NIR etc. Then the team visited the bio chemical fertilizer laboratory where the different scientist tried to explain the utility of bio chemical fertilizers over chemical fertilizers. They emphasized the students to encourage their parents, villagers and the public in different formats to use the bio chemical fertilizers in place of chemical fertilizers which not only environment friendly but cheap as well as make disease free products. The scientist also exhibited different insects displayed in this unit and explained the particular bio chemical fertilizers which used to kill the particular insects. Dr D Parida, HOD Chemistry and Mr Ranjan Kumar Gahan accompanied the students in the said visit. The students thank members of the guiding team.


24/02/23
HOD, CHEMISTRY
Pattamundai College


24/02/23
IQAC COORDINATOR

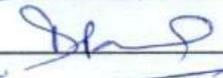

24/02/23
PRINCIPAL
Pattamundai College


IQAC Co-ordinator
Pattamundai College

STUDY TOUR CUM FIELD VISIT - ICAR NRRI

Organised By: Department of Chemistry
Pattamundai College, Pattamundai

Date: 24 February 2023

SLNO.	NAME OF THE STUDENT	ROLL NO	SIGNATURE
1	Prityambada P. Sahoo	BSC(P)20-042	Prityambada P. Sahoo
2	Tanisha Sahoo	BSC(P)20-062	Tanisha Sahoo
3	Bijayalaxmi Rout	BSC(P)20-002	Bijayalaxmi Rout
4	Karunakar Rout	BSC(P)20-007	Karunakar Rout.
5	Subhakanta Banik	BSC(P)20-061	Subhakanta Banik
6	Santoshi Mathan	BSC(P)20-065	Santoshi Mathan
7	Amrita Das	BSC(P)20-049	Amrita Das
8	Iteeshree Panda	BSC(P)20-067	Iteeshree Panda
9	Dibyashree Pradhan	BSC(P)20-084	Dibyashree Pradhan
10	Subhalaxmi Parida	BSC(P)20-068	Subhalaxmi Parida
11	Rita Malik	BSC(P)20-036	Rita Mallick
12	Barsha P. Pradhan	BSC(P)20-049	Anish Avinab Muskele
13	Anish Abhinav Meedele	BSC(P)20-052	Barsha. p. pradhan
14	Amar Kumar Sahoo	BSC(P)20-057	Amar Kumar Sahoo
15	Rasmi Ranjan Rout	BSC(P)20-029	Rasmi Ranjan Rout
16	Manas Ranjan Sahoo	BSC(P)20-079	Manas Ranjan Sahoo
17	Sumil Sahoo	BSC(P)20-082	Sumil Sahoo
18	Partha Biswal	BSC(P)20-069	Partha Biswal
19	Deepak Mahapatra	BSC(P)20-038	Deepak Mahapatra
20	Santanu Sahoo	BSC(P)20-070	Santanu Sahoo
#	DR DUSTASAN PARIDA	Reader & HOD Chemistry, Pattamundai College.	

Mr Ranjan Kumar Gahan

Lecturer in Chemistry
Pattamundai College

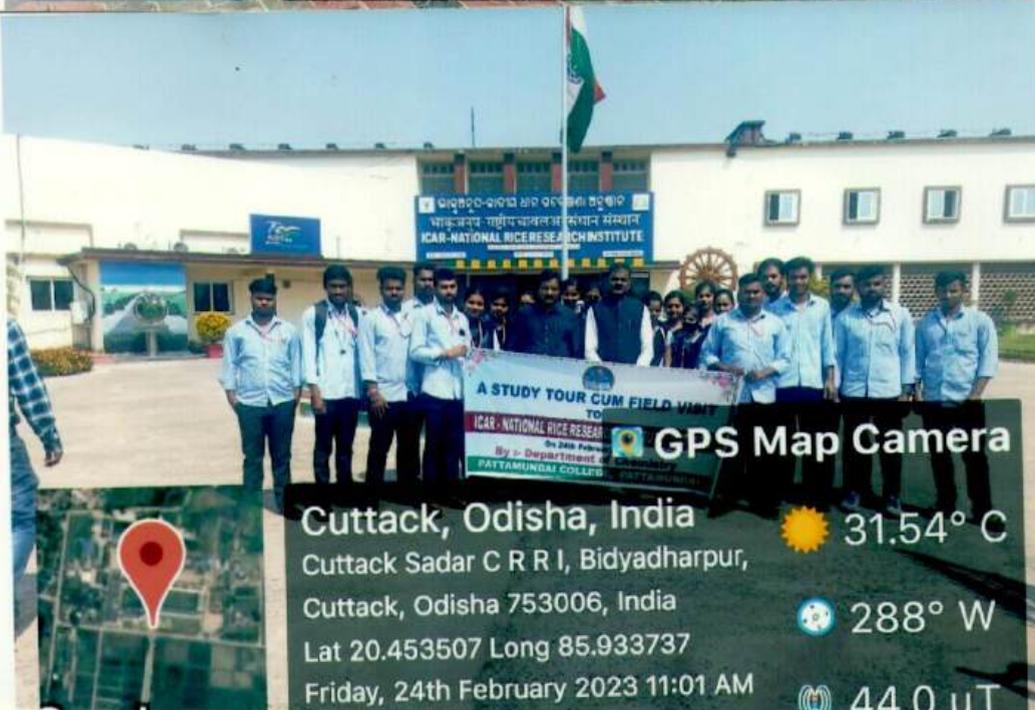
Ranjana K. Gahan.



Google

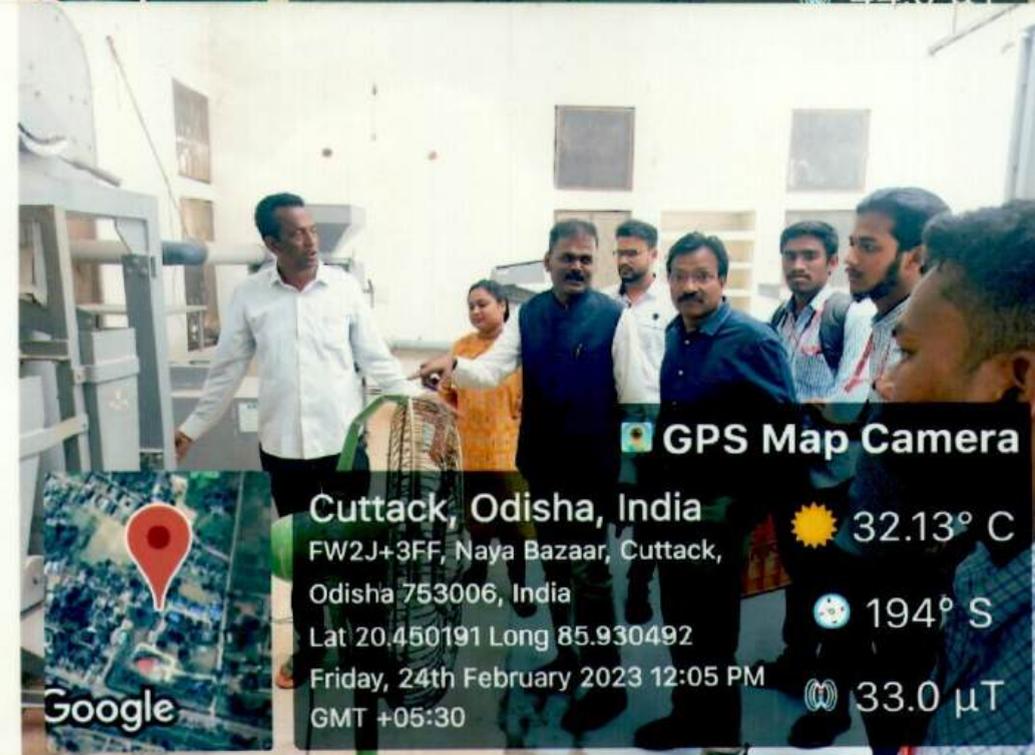
GPS Map Camera

Pattamundai, Odisha, India ☀️ 23.44° C
Bolck Road, Pattamundai, Odisha
754215, India 🌐 14° N
Lat 20.574632 Long 86.572839
Friday, 24th February 2023 07:41 AM 📶 43.0 μ T



GPS Map Camera

Cuttack, Odisha, India ☀️ 31.54° C
Cuttack Sadar C R I, Bidyadharpur,
Cuttack, Odisha 753006, India 🌐 288° W
Lat 20.453507 Long 85.933737
Friday, 24th February 2023 11:01 AM 📶 44.0 μ T



Google

GPS Map Camera

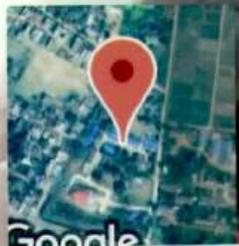
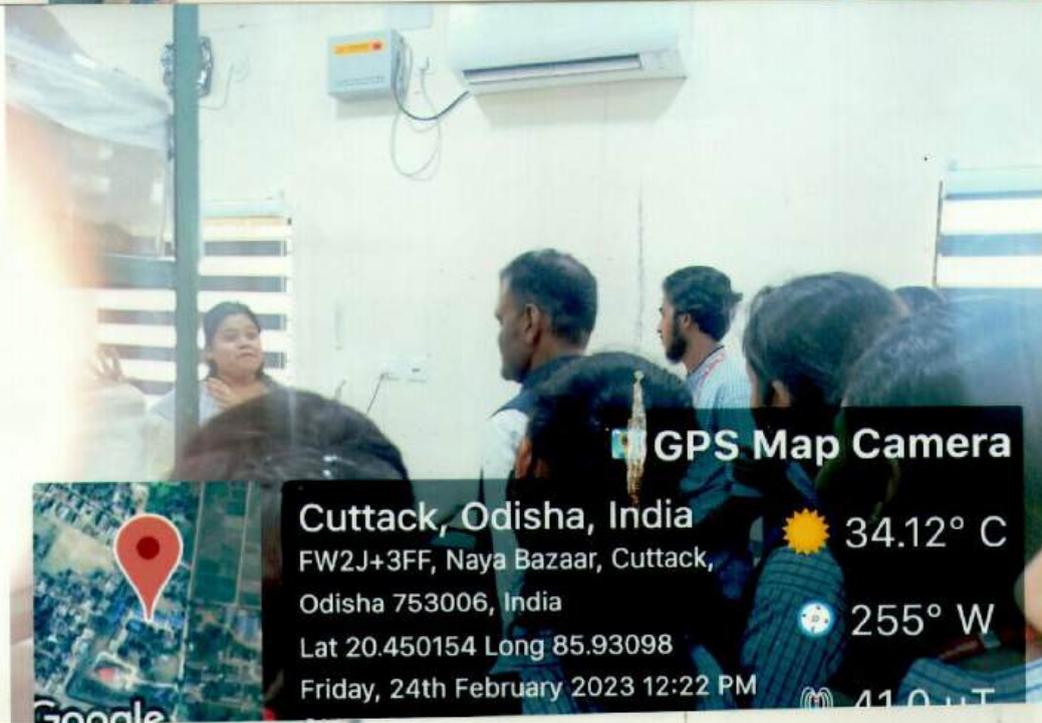
Cuttack, Odisha, India ☀️ 32.13° C
FW2J+3FF, Naya Bazaar, Cuttack,
Odisha 753006, India 🌐 194° S
Lat 20.450191 Long 85.930492
Friday, 24th February 2023 12:05 PM 📶 33.0 μ T



Google

A STUDY TOUR TO GPS FIELD VISIT TO ICAR RICE RESEARCH INSTITUTE CUTTACK

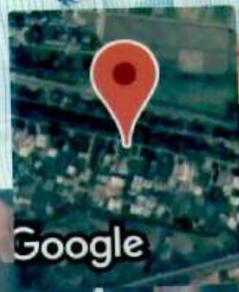
Cuttack, Odisha, India ☀️ 30.13° C
 FW3M+GF8, Bidyadharpur, Cuttack,
 Odisha 753006, India 🌐 127° SE
 Lat 20.453699 Long 85.933271 📶 23.0 μT
 Friday, 24th February 2023 11:12 AM
 GMT +05:30



Google

GPS Map Camera

Cuttack, Odisha, India ☀️ 34.12° C
 FW2J+3FF, Naya Bazaar, Cuttack,
 Odisha 753006, India 🌐 255° W
 Lat 20.450154 Long 85.93098 📶 41.0 μT
 Friday, 24th February 2023 12:22 PM



Google

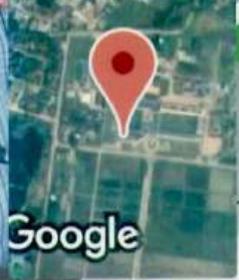
GPS Map Camera

Cuttack, Odisha, India ☀️ 32.13° C
 banshibihar, Poparada, Cuttack,
 Odisha 753010, India 🌐 17° N
 Lat 20.447223 Long 85.933489 📶 44.0 μT
 Friday, 24th February 2023 12:09 PM
 GMT +05:30



RICE INSECT PESTS

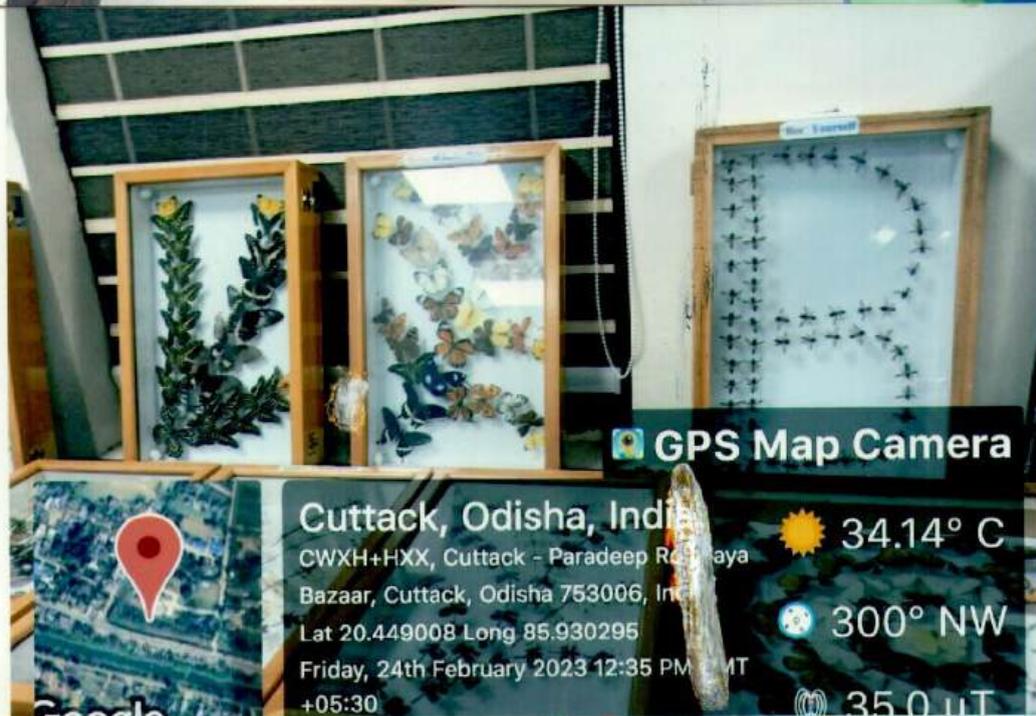
GPS Map Camera



Google

Cuttack, Odisha, India
FW3M+GF8, Bidyadharpur, Cuttack,
Odisha 753006, India
Lat 20.453712 Long 85.933276
Friday, 24th February 2023 11:13 AM
GMT +05:30

30.13° C
291° W
37.0 μT



GPS Map Camera



Google

Cuttack, Odisha, India
CWXH+HXX, Cuttack - Paradeep Road, Bazaar,
Cuttack, Odisha 753006, India
Lat 20.449008 Long 85.930295
Friday, 24th February 2023 12:35 PM
GMT +05:30

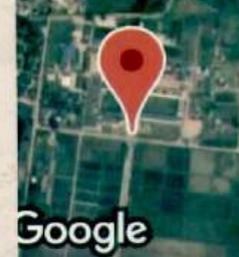
34.14° C
300° NW
35.0 μT



ଓଡ଼ିଶା ରାଜ୍ୟର ଉଚ୍ଚ ଶିକ୍ଷା ବିଭାଗ
ମାଟ୍ଟାମୁଣ୍ଡା ବିଶ୍ୱବିଦ୍ୟାଳୟ
ICAR-NATIONAL RICE RESEARCH INSTITUTE

A STUDY TOUR CUM FIELD VISIT
TO
ICAR - NATIONAL RICE RESEARCH INSTITUTE, CUTTACK
On 24th February
By > Department of
MATTAMUNDA COLLEGE

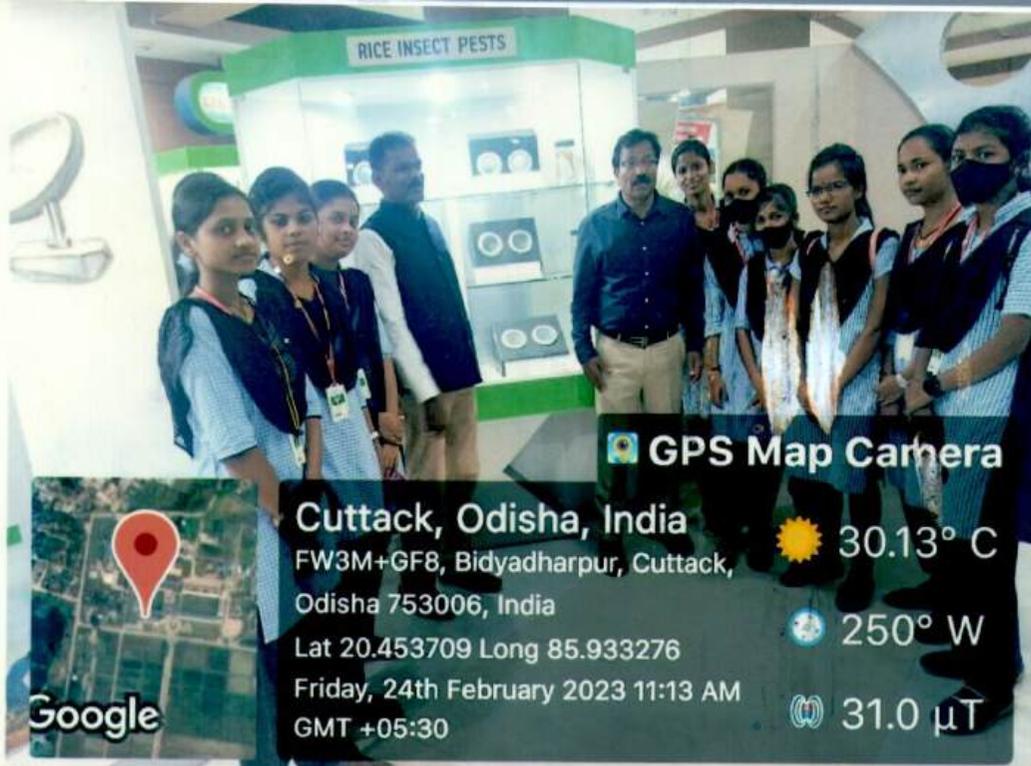
GPS Map Camera



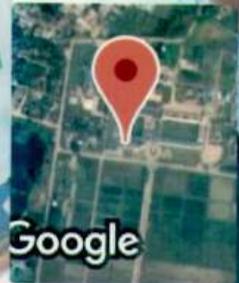
Google

Cuttack, Odisha, India
Cuttack Sadar C R R I, Bidyadharpur,
Cuttack, Odisha 753006, India
Lat 20.453484 Long 85.933735
Friday, 24th February 2023 11:03 AM
GMT +05:30

31.54° C
290° W
32.0 μT

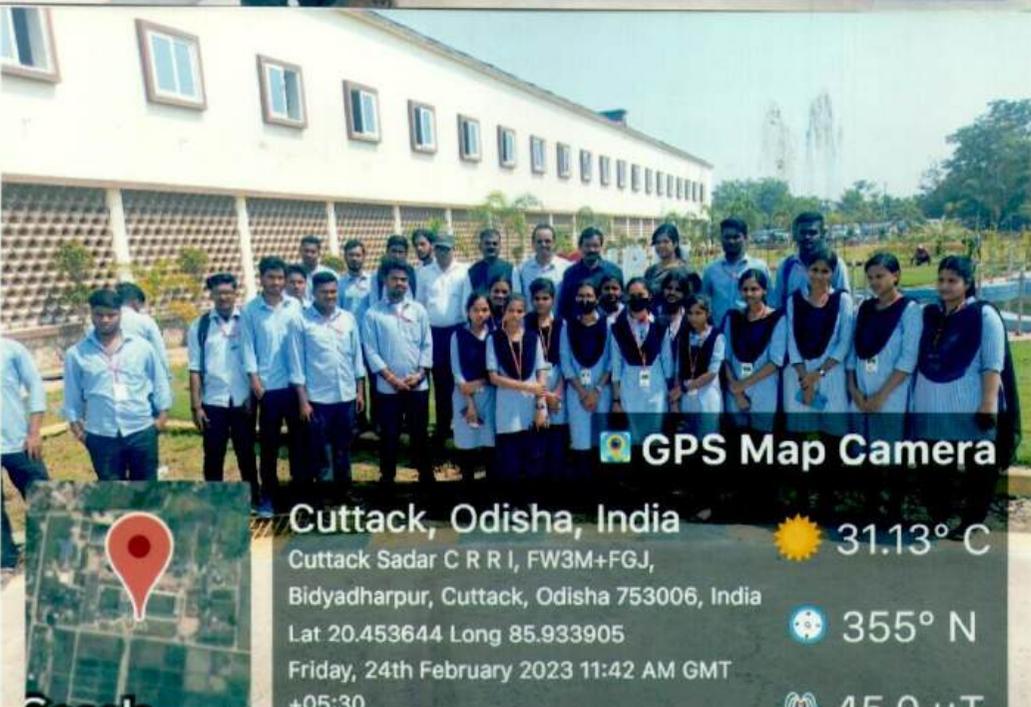


GPS Map Camera

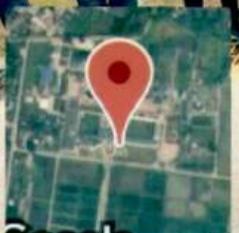


Cuttack, Odisha, India
FW3M+GF8, Bidyadharpur, Cuttack,
Odisha 753006, India
Lat 20.453709 Long 85.933276
Friday, 24th February 2023 11:13 AM
GMT +05:30

30.13° C
250° W
31.0 μ T



GPS Map Camera



Cuttack, Odisha, India
Cuttack Sadar C R R I, FW3M+FGJ,
Bidyadharpur, Cuttack, Odisha 753006, India
Lat 20.453644 Long 85.933905
Friday, 24th February 2023 11:42 AM GMT
+05:30

31.13° C
355° N
45.0 μ T



GPS Map Camera



Cuttack, Odisha, India
FW3M+GF8, Bidyadharpur, Cuttack,
Odisha 753006, India
Lat 20.453709 Long 85.933277
Friday, 24th February 2023 11:14 AM
GMT +05:30

30.13° C
174° S
37.0 μ T



GPS Map Camera



Cuttack, Odisha, India

FW3M+GF8, Bidyadharpur, Cuttack,
Odisha 753006, India

Lat 20.4537 Long 85.933263

Friday, 24th February 2023 11:17 AM

GMT +05:30

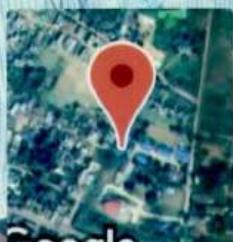
30.13° C

253° W

27.0 μ T



GPS Map Camera



Cuttack, Odisha, India

FW2J+3FF, Naya Bazaar, Cuttack,
Odisha 753006, India

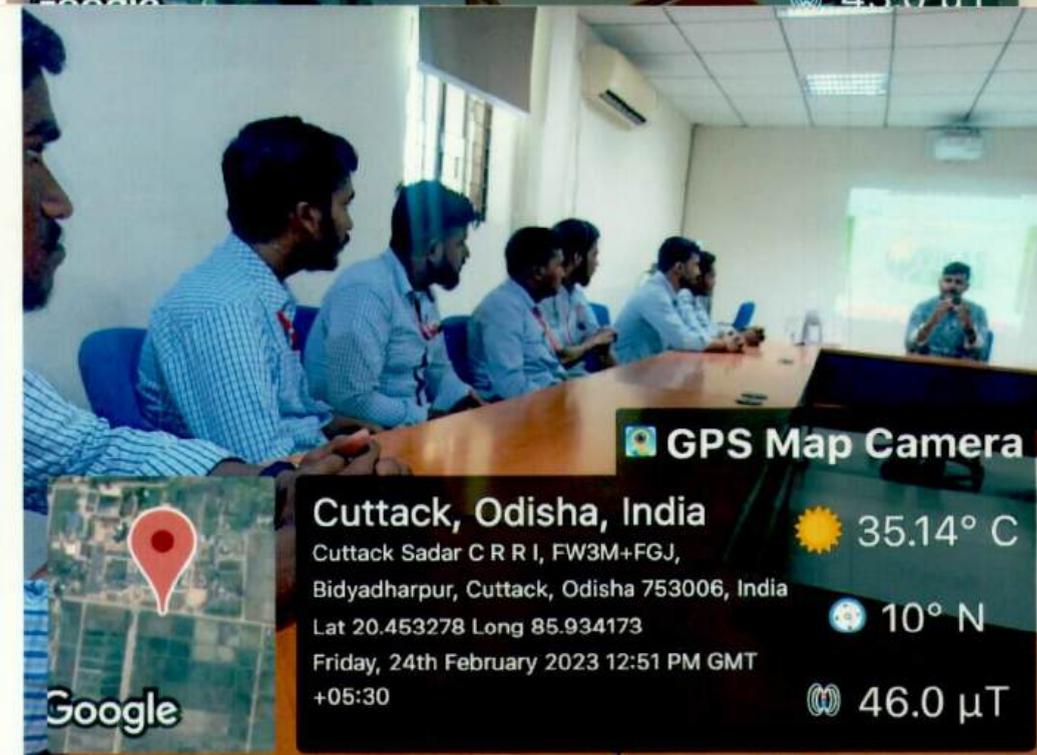
Lat 20.450243 Long 85.930412

Friday, 24th February 2023 12:09 PM

32.13° C

20° N

43.0 μ T



GPS Map Camera



Cuttack, Odisha, India

Cuttack Sadar C R R I, FW3M+FGJ,
Bidyadharpur, Cuttack, Odisha 753006, India

Lat 20.453278 Long 85.934173

Friday, 24th February 2023 12:51 PM GMT
+05:30

35.14° C

10° N

46.0 μ T