Math - Anil - 44

SESSION 2023-24 | AQAR CRITERION- | CGCOGN15565

GOVERNMENT CHANDULAL CHANDRAKAR ARTS AND SCIENCE COLLEGE PATAN, DURG (C.G.)

REPORT OF THE PROGRAM

2023-24 M.Sc. - II sem.

S.N.	PROGRAM POINTS	PROGRAM DETAILS
1	Name of the Program:	Green - Board Presentation
2	Date of the Program:	15/04/2024.
3	Name of the Department / Cell / Committee (Organized by):	Deptt. of Mathematics.
4	Name of the Organizer:	Priya Chandraker.
5	Coordinator/Convener Name:	Dr. R.K. Verma.
6	Number of Participants (Attach the list below):	06
7	Total No. of Beneficiaries (Attach the list below):	06
8	Chief Guest of the Program	
9	President of the Program	
10	Program Conducted By:	Deptt. of Mathematics.
11	PRESS Report, if published (Online link, Offline-Press Report)	
12	Brief Report of the Program: PHOTO/MONO OF THE PROGRAM	Black Board Presentation is used in study & teaching & learning through which group discussion can take place. Black Board presentation is a way in which students not only become familier with teaching but other students also benefit from the topic presented by the students.

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math- April- 45

SESSION 2023-24 AQAR CRITERION- CGCOGN15565

GOVERNMENT CHANDULAL CHANDRAKAR ARTS AND SCIENCE COLLEGE PATAN, DURG (C.G.)

REPORT OF THE PROGRAM

2023-24 M.Sc.- IV Sem

S.N.	PROGRAM POINTS	PROGRAM DETAILS
1	**Name of the Program:**	Green Board Presentation
2	**Date of the Program:**	15/04/2024
3	**Name of the Department / Cell / Committee (Organized by):**	Deptt. of mathematics.
4	**Name of the Organizer:**	Jaynendra shrivas.
5	**Coordinator/Convener Name:**	Dr. R.K. verma.
6	**Number of Participants (Attach the list below):**	03
7	**Total No. of Beneficiaries (Attach the list below):**	03
8	**Chief Guest of the Program**	
9	**President of the Program**	
10	**Program Conducted By:**	Deptt. of mathematics.
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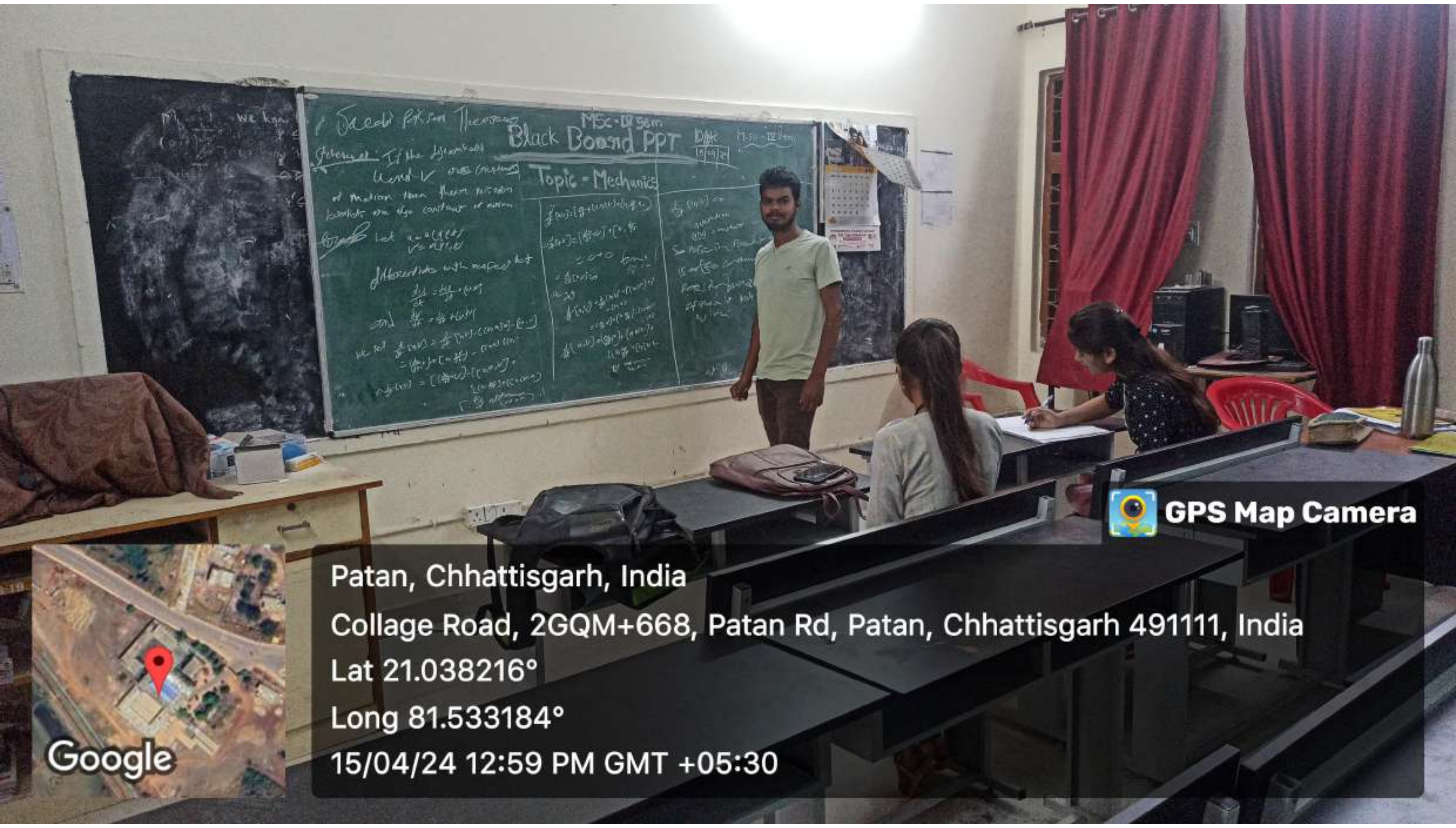
Black Board PPT
Topic - Mechanics
GPS Map Camera
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Lat 21.038216°
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Google


MSc - IV Sem
Black Board PPT
Date 15/04/24
Ramsey Theorem
Topic - Graph Theory
GPS Map Camera
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Collage Road, 2GQM+668, Patan Rd, Patan, Chhattisgarh 491111, India
Lat 21.038208°
Long 81.533192°
15/04/24 01:08 PM GMT +05:30
Google

Project Topic

F.A - The generalize Lax - Milgram theorem.

Mechanics - Hamilton Jacobi eqn Jacobi Theorem
method of seperation of variables.

Fuzzy - Individual decision making multiperson decision making
Multicriteria decision making.

O.R. - Queuing System Deterministic Queuing system

Graph Theory - Topics in Algebraic Graph theory

PPT Topic

Jaccobi Poission Theorem (Mechanics)

Page No.

Roll No.

Date........................

Digeshwar Kumar

PPT TOPIC

Graph theory - Ramsey theorem and its properties.

Project topic

1. F.A. - The generalized Cox - milgram theorem

2. Mechanics :- Equi - potential and solied harmonicc, surface density and harmonicec

3. Fuzzy sets :- Linguistic Hedges, Inference from Conditions fuzzy propositions

4. O.R. :- Solution by linear programming

5. Graph theory :- Co - chromatic (co - dichromatic) graph

Chandan

Digu
Apr 4, 2024, 11:48

Name – Rupesh Dewangan

PPT :- Topic – Graph theory [Polynomial and Graph Enumeration]

Project :–

F.A. – Uniform boundedness theorem and some of its co – sequence.

Machenics – Work done by self attracting system distributions for a given polynomial.

Fuzzy – Fuzzy linear programming with example

OR – PURE stategy saddle point and 2×2 games without saddle point

Graph theory – Degree Sequence.

MOHNISH

1.) F.A. — Adjoint of an operator on a Hilbert space. [U-4]

2.) Mechanics — Euler's eqn for one dependent function - under Integral Constraints. [U-2]

3.) Fuzzy — Fuzzy Neural Network & fuzzy automata with examples. [U-3]

4.) O.R. — Dominance Rules [U-2]

5.) Graph — Symmetry Concept, pseudo similarity and stability. [U-2]

DECEMBER							2014
Wk.	M	T	W	T	F	S	S
49	1	2	3	4	5	6	7
50	8	9	10	11	12	13	14
51	15	16	17	18	19	20	21
52	22	23	24	25	26	27	28
53	29	30	31				

PPT Topic ⇒

Whittaker's Equations

Math - april - 47

SESSION 2023-24 AQAR CRITERION- CGCOGN15565

GOVERNMENT CHANDULAL CHANDRAKAR ARTS AND SCIENCE COLLEGE PATAN, DURG (C.G.)

REPORT OF THE PROGRAM

2023-24 M.Sc. II Sem.

S.N.	PROGRAM POINTS	PROGRAM DETAILS
1	Name of the Program:	Green Board Presentation
2	Date of the Program:	16/04/2024
3	Name of the Department / Cell / Committee (Organized by):	Deptt. of mathematics
4	Name of the Organizer:	Priya chandraker.
5	Coordinator/Convener Name:	Dr. R. K. verma.
6	Number of Participants (Attach the list below):	03
7	Total No. of Beneficiaries (Attach the list below):	03
8	Chief Guest of the Program	
9	President of the Program	
10	Program Conducted By:	Deptt. of mathematics.
11	PRESS Report, if published (Online link, Offline-Press Report)	
12	Brief Report of the Program: PHOTO/MONO OF THE PROGRAM	Black Board Presentation is used in study & teaching & learning through which group discussion can take place. Black Board presen-tation is a way in which students not only become familier with teaching but other students also benefit from the topic presented by the students.

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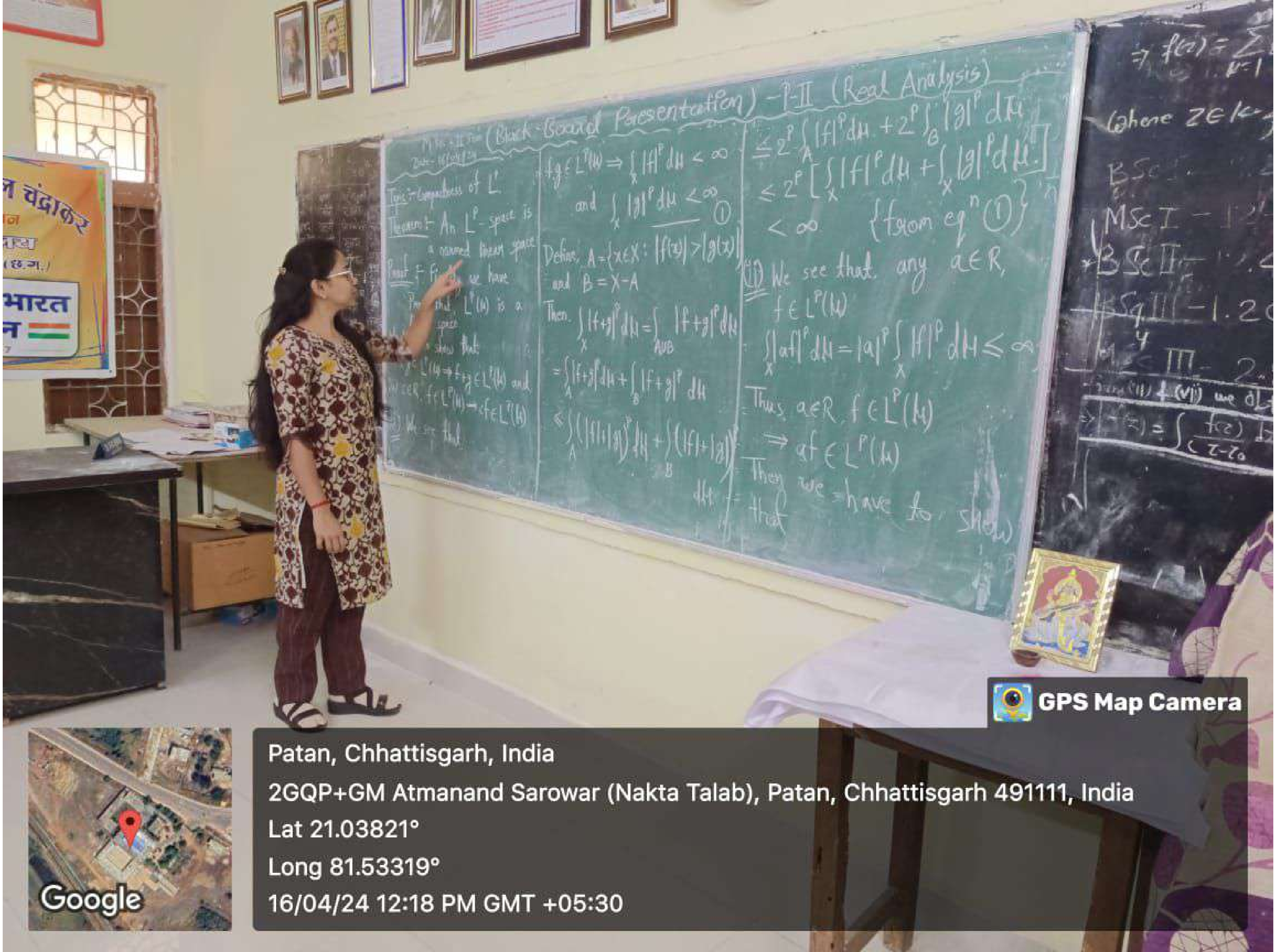
(Black-Board Presentation) - P-II (Real Analysis)
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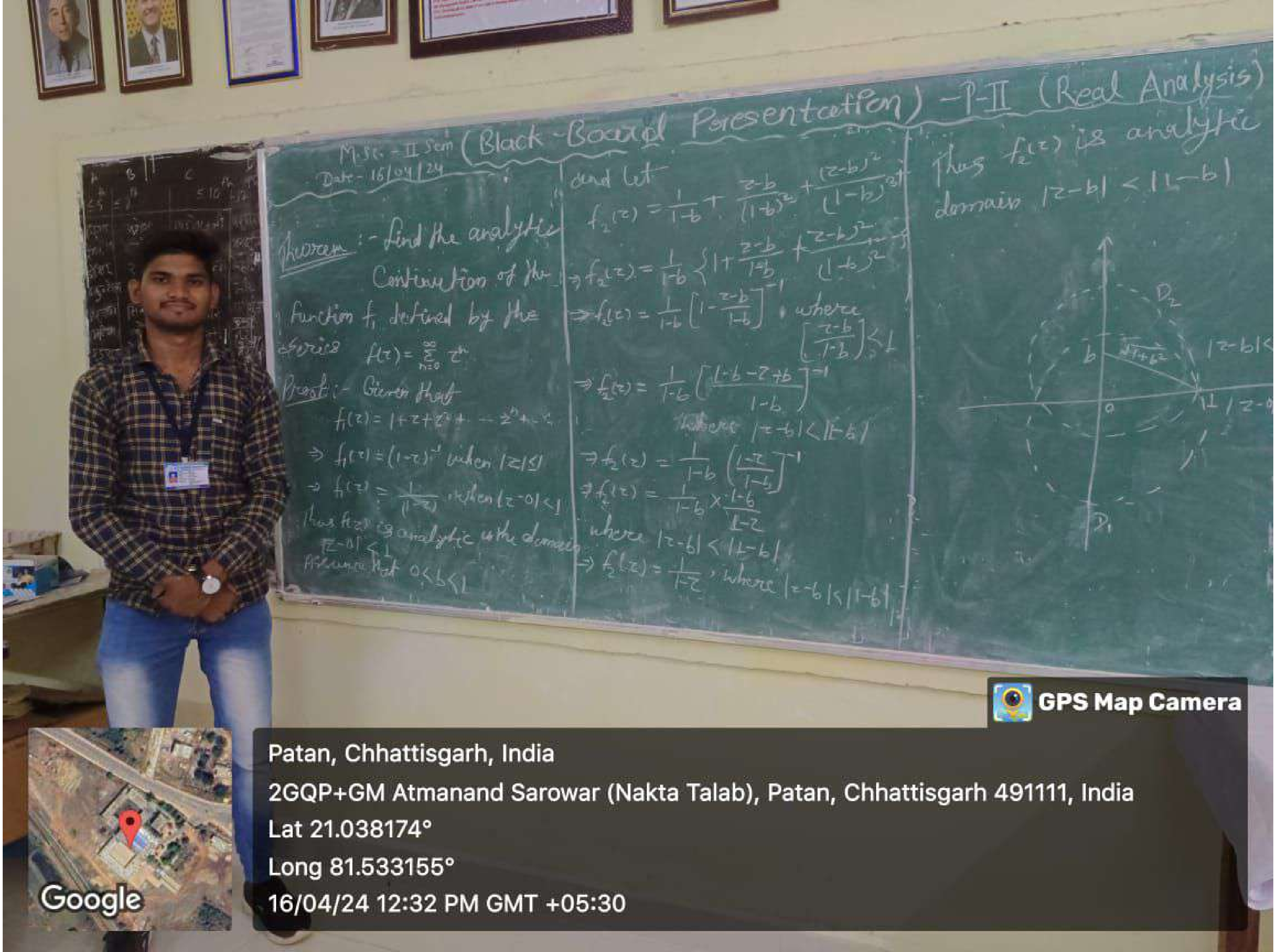
M.Sc. - II Sem (Black-Board Presentation) - P-II (Real Analysis)
Date - 16/04/24
Theorem :- Find the analytic continuation of the function f_1 defined by the series $f(z) = \sum_{n=0}^{\infty} z^n$
Proof :- Given that
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Math - april - 98

SESSION 2023-24 AQAR CRITERION- CGCOGN15565

GOVERNMENT CHANDULAL CHANDRAKAR ARTS AND SCIENCE COLLEGE PATAN, DURG (C.G.)

REPORT OF THE PROGRAM

2023-24 M.Sc. - IV sem.

S.N.	PROGRAM POINTS	PROGRAM DETAILS
1	Name of the Program:	Green Board Presentation.
2	Date of the Program:	16/04/2024
3	Name of the Department / Cell / Committee (Organized by):	Deptt. of mathematics.
4	Name of the Organizer:	Priya chandraker,
5	Coordinator/Convener Name:	Dr. R.K. verma,
6	Number of Participants (Attach the list below):	03
7	Total No. of Beneficiaries (Attach the list below):	03
8	Chief Guest of the Program	
9	President of the Program	
10	Program Conducted By:	Deptt. of mathematics.
11	PRESS Report, if published (Online link, Offline-Press Report)	
12	Brief Report of the Program: PHOTO/MONO OF THE PROGRAM	Black Board presentation is used in study & teaching & learning through which group discussion can take place. Black Board presentation is a way in which students not only become familiar with teaching but other students also benefit from the topic presented by the students.

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Math - Nov - 13

SESSION 2023-24 AQAR CRITERION- CGCOGN15565

GOVERNMENT CHANDULAL CHANDRAKAR ARTS AND SCIENCE COLLEGE PATAN, DURG (C.G.)

REPORT OF THE PROGRAM
2023-24

M.Sc. I Sem

S.N.	PROGRAM POINTS	PROGRAM DETAILS
1	Name of the Program:	Black board presentation (Group learning)
2	Date of the Program:	04/11/2023
3	Name of the Department / Cell / Committee (Organized by):	Deptt. of Mathematics
4	Name of the Organizer:	Priya Chandrakar
5	Coordinator/Convener Name:	Dr. R.K. Verma
6	Number of Participants (Attach the list below):	08
7	Total No. of Beneficiaries (Attach the list below):	08
8	Chief Guest of the Program	
9	President of the Program	
10	Program Conducted By:	Deptt. of Mathematics
11	PRESS Report, if published (Online link, Offline-Press Report)	
12	Brief Report of the Program: PHOTO/MONO OF THE PROGRAM	Black board presentation is used in study and teaching and learning through which group discussion can take place. Black board presentation is a way in which students not only become familier with teaching but other students also benefit from the topic presented by the students.

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Math - Nov. - 13p

SESSION 2023-24 AQAR CRITERION- CGCOGN15565

GOVERNMENT CHANDULAL CHANDRAKAR ARTS AND SCIENCE COLLEGE PATAN, DURG (C.G.)

REPORT OF THE PROGRAM

2023-24

M.Sc. III Sem.

S.N.	PROGRAM POINTS	PROGRAM DETAILS
1	Name of the Program:	Black board presentation (Group learning)
2	Date of the Program:	04/11/2023
3	Name of the Department / Cell / Committee (Organized by):	Deptt. of Maths.
4	Name of the Organizer:	Jaynendra Shrivas
5	Coordinator/Convener Name:	Dr. R.K. Verma
6	Number of Participants (Attach the list below):	11
7	Total No. of Beneficiaries (Attach the list below):	11
8	Chief Guest of the Program	
9	President of the Program	
10	Program Conducted By:	Deptt. of Mathematics
11	PRESS Report, if published (Online link, Offline-Press Report)	
12	Brief Report of the Program: PHOTO/MONO OF THE PROGRAM	Black board presentation is used in study and teaching and learning through which group discussion can take place. Black board presentation is a way in which students become familier with not only teaching but other students also benefit from the topic presented by the student.

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Math - Nov - 15

SESSION 2023-24 AQAR CRITERION- CGCOGN15565

GOVERNMENT CHANDULAL CHANDRAKAR ARTS AND SCIENCE COLLEGE PATAN, DURG (C.G.)

REPORT OF THE PROGRAM

2023-24

M.Sc. - III Sem

S.N.	PROGRAM POINTS	PROGRAM DETAILS
1	**Name of the Program:**	Black board Presentation (Group learning)
2	**Date of the Program:**	06/11/2023
3	**Name of the Department / Cell / Committee (Organized by):**	Deptt. of Mathematics.
4	**Name of the Organizer:**	Jaynendra Shrivas
5	**Coordinator/Convener Name:**	Dr. R.K. Verma.
6	**Number of Participants (Attach the list below):**	12
7	**Total No. of Beneficiaries (Attach the list below):**	12
8	**Chief Guest of the Program**	
9	**President of the Program**	
10	**Program Conducted By:**	Deptt. of mathematics.
11	**PRESS Report, if published (Online link, Offline-Press Report)**	
12	**Brief Report of the Program:** **PHOTO/MONO OF THE PROGRAM**	Black board Presentation is used in study and teaching & learning through which group discussion can take place. Black board Presentation is a way in which students not only become familier with teaching but other students also benefit from the topic Presented by the students.

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Math - Nov - 16

SESSION 2023-24 AQAR CRITERION- CGCOGN15565

GOVERNMENT CHANDULAL CHANDRAKAR ARTS AND SCIENCE COLLEGE PATAN, DURG (C.G.)

REPORT OF THE PROGRAM

2023-24 M.Sc. I Sem.

S.N.	PROGRAM POINTS	PROGRAM DETAILS
1	Name of the Program:	Black Board Presentation (Group learning)
2	Date of the Program:	06/11/2023
3	Name of the Department / Cell / Committee (Organized by):	Deptt. of Mathematics.
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Program Name—Topic of Group Discussion M. Sc- I (Mathematics) 2023-24

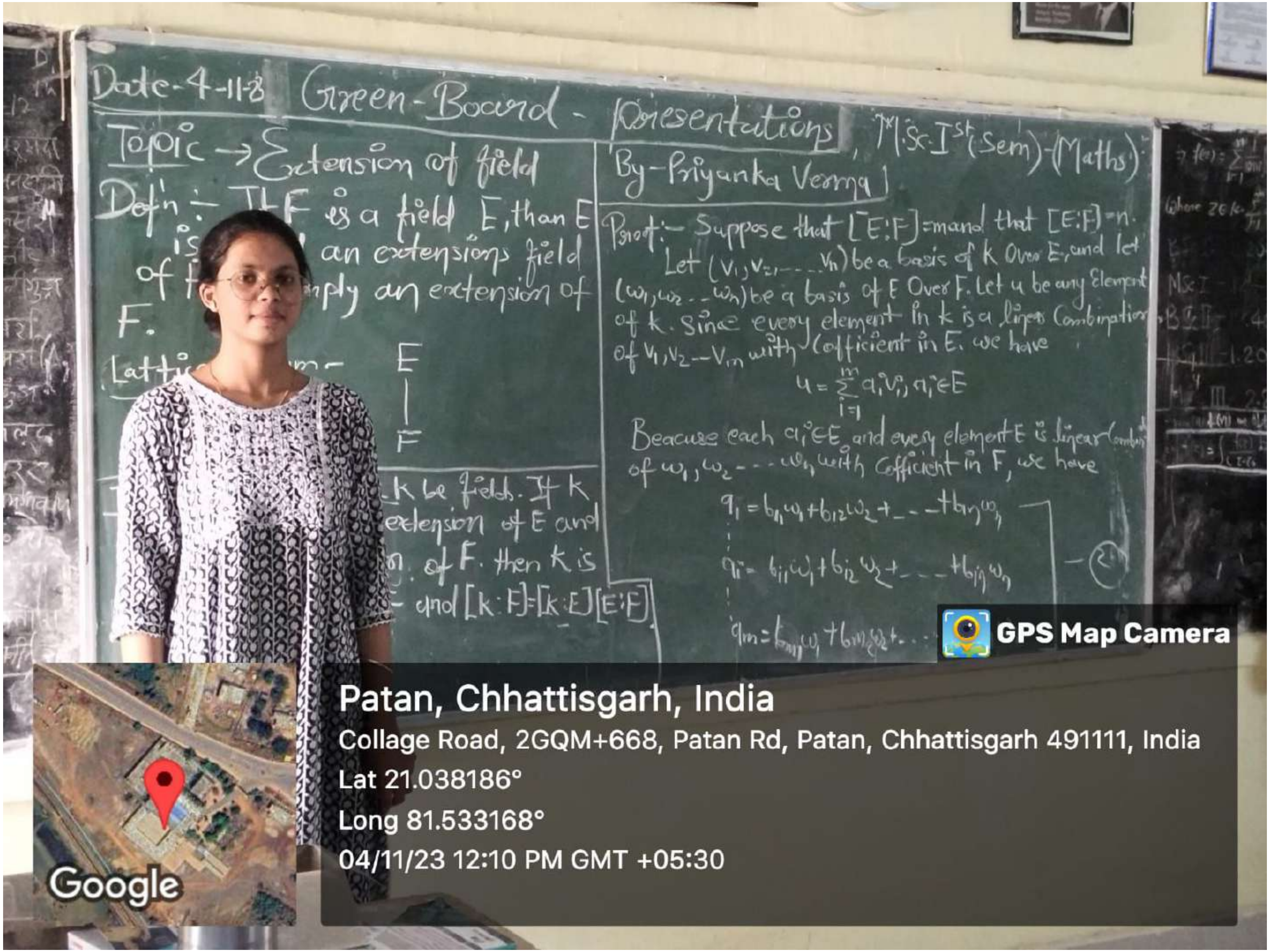
S. No.	Name of Student	Paper I (AAA) 04-11-23	P-II (Real) 06-11-23	P-III (Topo.) 07-11-23	P-IV (Complex) 08-11-23	P-V (Discrete) 09-11-
1.	Priyanka Verma [signature] 9644281182	Topic → Extension of field	Topic → The Weierstrass Theorem and Stone-Weierstrass Theorem (Approximation)	Topic → Zorn's Lemma	Topic – Maximum Modulus principle	Topic – Homomorphism of Boolean Algebra
2	Jagriti Shahu [signature] 7838722104	Separable and inseparable extension	Power Series	Topic – Interior, Exterior, Frontier	Taylor's Theorem	Quotient Semigroup
3	Pallavi Verma [signature] 9300288303	Normal and Subnormal Series	Dirichelts Theorem	Kuratowski Theorem	Cauchy' Goursat Theorem.	Quantifiers
4	Vidya Nishad	Composition Series	Simple properties of Riemann-stieltjes	Countable and Uncountable Sets	Cauchy's Residue Theorem	Logic Statement
5.	Madhuri	Jordan-Holder Theorem.	Tauber's Theorems.	Topological Space and related theorem	Schwarz Lemma	Congruence relation.

Program Name — Black-Board Presentation — M.Sc- I (Maths) 2023-24

No.	Name	04-11-2023 Paper-I (AAA) 4-11-23	06-11-2023 Paper-II (Real) 6-11-23	07-11-2023 Paper-III (Topo) 7-11-23	08-11-2023 Paper-IV (Complex) 8-11-23	09-11-2023 Paper-V (Discrete) 9-11-23
	Bhuvneshwari	Solvable group and nilpotent group.	Inverse function	Neighbourhood	Roches Theorem	Semigroup and Monoid definition
7.	Nandita	Galois Theory	Green's Theorem	Bases, Subbase,	Morera's Theorem	Language and Grammar
8.	Umakant 6267651592 (signature)	Normal Extension	Linear Transformation.	Subspaces and Relative Topology	Laurent Series	Basic Homomorphism Theorem
9.	Ankit 7987730266 (signature)	Finitely Generated	Continuity of Some function.	Cantor's Theorem	Cauchy Integrals	sub semigroup and sub monoid definition.

Program Name :- Topic of Group Discussion (M.Sc.I / Mathematics 2023-24)

S.	Name	Paper-I (AAA) 04-11-23	P-II (Real) - 06-11-23	P-III (Topo) - 07-11-23	P-IV (Complex) 8-11-23	P-V (Discrete) 09-11-23
11.	Khileswari Tandon	Field Theory	Jacobians	Axiom of choice	Poisson's Theorem	Tautology
12.	Rajeswari	Polynomials related Question	Find the Value of Maxima and Minimum	Cardinal Number and closed set, Open set.	Cross - Ratios	De-morgan's law


Date-4-11-23 Green-Board - Presentations, M.Sc. Ist (Sem)-(Maths)
Topic → Extension of field
By-Priyanka Verma
Proof:- Suppose that [E:F]=m and that [E:F]=n.
Let (v1, v2, ..., vn) be a basis of K Over E, and let (w1, w2 ... wn) be a basis of E Over F. Let u be any Element of K. Since every element in K is a linear Combination of v1, v2 -- vm with Cofficient in E. we have
Beacuse each ai ∈ E and every element E is linear Combination of w1, w2 --- wn with Cofficient in F, we have
and [K:F]=[K:E][E:F]
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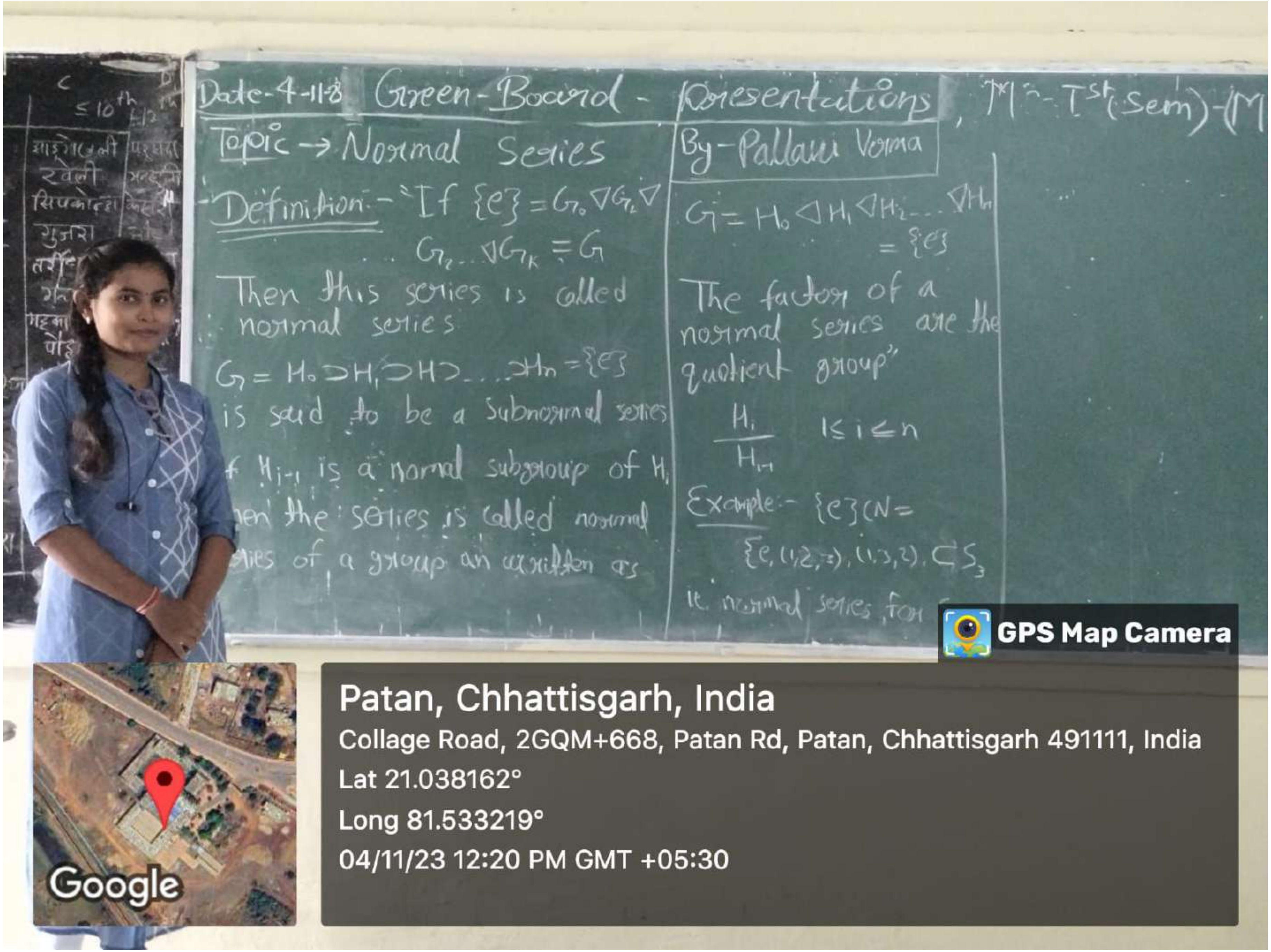
Date-4-11-23 Green-Board-Presentations, M :- Ist (Sem)-(M
Topic → Normal Series
By-Pallavi Verma
Definition:- "If {e} = G₀ ◁ G₁ ◁ G₂ .. ◁ G_K = G
Then this series is called normal series
G = H₀ ⊃ H₁ ⊃ H₂ ... ⊃ Hn = {e}
is said to be a subnormal series
if H_{i-1} is a normal subgroup of Hᵢ
then the series is called normal series of a group an written as
G = H₀ ◁ H₁ ◁ H₂ ... ◁ Hn = {e}
The factor of a normal series are the quotient group"
Hᵢ / H_{i-1} 1 ≤ i ≤ n
Example:- {e} ⊂ N = {e, (1,2,3), (1,3,2)} ⊂ S₃
it normal series for
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Date-4-11-23
Green-Board-Presentations, M.Sc.-Ist (Sem)-(Maths)
Topic → Composition series
By- Vidya Nishad
Definition:- Let G be a group
Proof:- Suppose G is a finite group
we have to prove that G has a
composition series.
Since G is finite group therefore two
condition are.
(1) G is simple.
(2) G is not simple.
Every finite group has a composition
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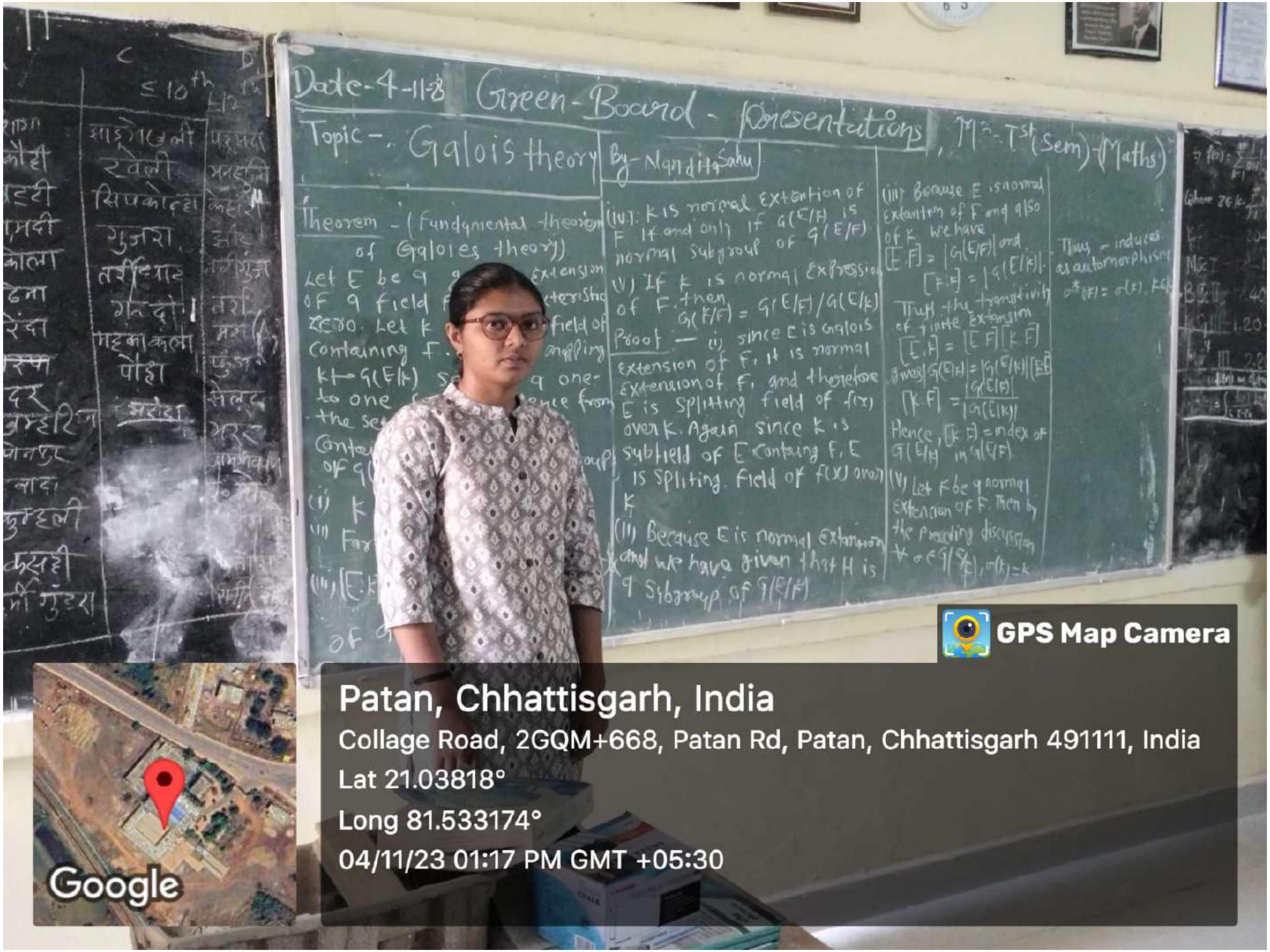
Green-Board-Presentations
Topic-Galois theory
By-Nandita Sahu
Theorem - (Fundamental theorem of Galoies theory)
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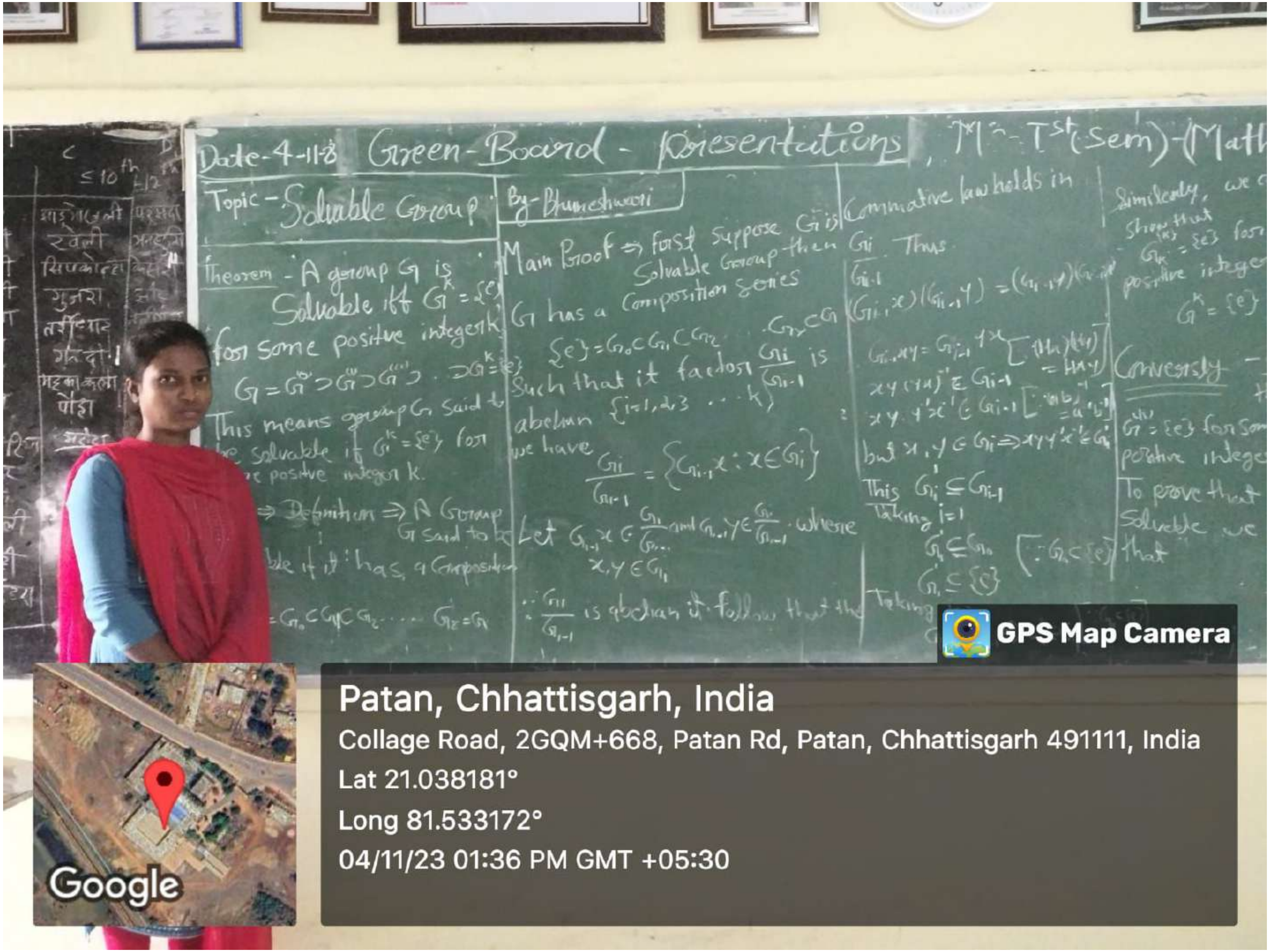
Green-Board - Presentations
Topic - Solvable Group
By-Bhuneshwari
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Green-Board - Presentation
Topic- Jordan-Holder Theorem
By- Madhuri Sen
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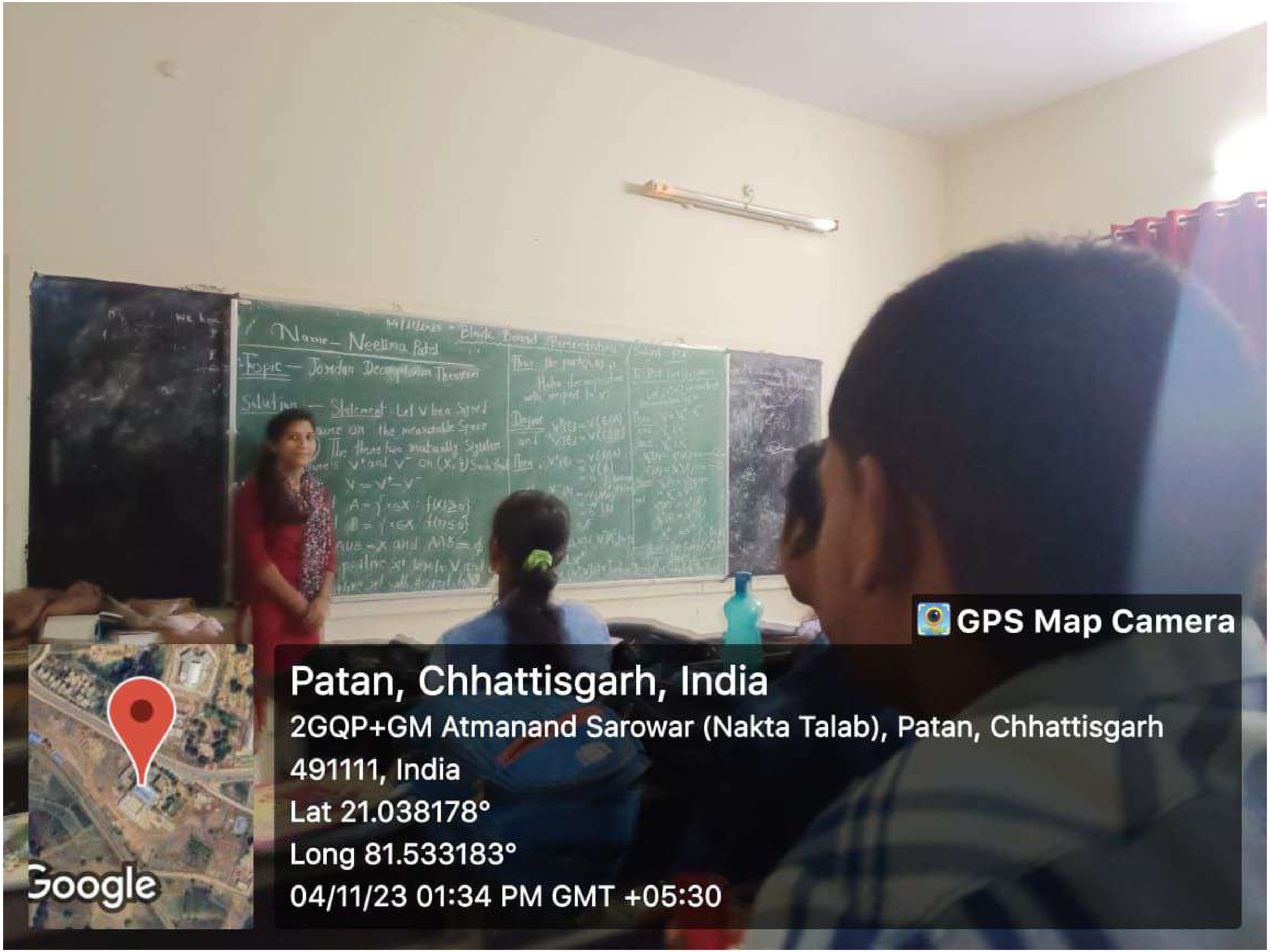
NO.	NAME	Fuzzy set	P.D.E.	TOPIC F.A.	O.R.	Graph Theory
1.	Digeshwar Ku.	First Decomposition Theorem	Fundamental solution of Laplace's equ.	Lebegue Decomposition Theorem	simplex method	Every planar graph is K-vertex Colourable iff every plane graph is K-face Colourabl
2.	Anamika jena	$\lvert A\rvert + \lvert B\rvert = \lvert A \cup B\rvert + \lvert A \cap B\rvert$	Non Homogenous problem	Radon Nikodym Theorem	Assignment problem	prove that if a graph H is homomorphic from a graph G. Then G is Contraction of H,
3.	Rity Sahu	${}^{\alpha+}A \cap {}^{\alpha+}B = {}^{\alpha+}(A \cap B)$ ${}^{\alpha+}A \cup {}^{\alpha+}B = {}^{\alpha+}(A \cup B)$	local Estimate for harmonic function	Riesz - markoff theorem	Graphical method	Permutation gram, split graph, Forbidden subgraph.
4	Rupesh Dewangan	Second Decomposition theorem	Mean value theorem	Catheodory extension theorem	Dual simplex method	P.V. if a graph G is Contractible to a graph H and $\Delta(H) \leq 3$ then G has a subgraph homm from H.
5.	Temesh Sahu	state & prove Hahn Decomposition theorem (FA)	stationary phase for wave equation	possibility theory (Fuzzy set)	Two Phase Method	Every planar graph is 5-vertex colourable.
6.	Neelima Patel	Jordan (F.A) Decomposition Theorem	Hopf-Lax Formula	T-Norms (fuzzy set) Triangular	Least Cost Method	Prove that any homomorphic is the Product of a Connected.
7.	Prashant Kumar Sahu.	$R(x,y) = \begin{cases} 1 - x/y, & x \leq y \\ 0 & \text{otherwise} \end{cases}$ Find the range and inverse of R	Dirichlet's Principle.	Riesz Representation theorem.	North west Corner Method	Prove that If a graph is triangulated iff It has a perfect elimination scheme.
8	Khushi Chandrakar	First Characterization theorem	State and Prove Poisson's formula for half space	Countable union of Positive set is Positive	Prove that dual of the dual is Primal	Prove that a connected graph G is isomorphic to its ege graph iff it is a cycle

S.N.	Name of Student	F.A.	P.D.E.	Fuzzy	O.R.	Graph Theory.
9.	Mohnish	Jordan Decomposition	Routh's equation of motion	(i) $f\left(\bigcup_{i\in I} A_i\right) = \bigcup_{i\in I} f(A_i)$ (ii) $f\left(\bigcap_{i\in I} A_i\right) \subseteq \bigcap_{i\in I} f(A_i)$	The Dijkastra's Shortest path algorithm.	Prove that the complement of every interval graph is a comparability.
10.	Pragati	Fubini's theorem	$K(y_0) = \min_{y\in R} k(y)$ then $\lim \frac{\int_{-\infty}^{\infty} l(y)\cdot e^{\frac{-k(y)}{\varepsilon}} dy}{\int_{-\infty}^{\infty} e^{\frac{-k(y)}{\varepsilon}} dy} = l(y_0)$	Convex fuzzy set	~~VAM~~ (Vogel's ~~Approximati~~) Minimum Spanning tree problem.	Every strongly perfect graph is perfect
11	Nikita Dewangan	Let E be a measurable set such that $0 < V(E) < \infty$ than there is a positive set A contained in E with $V(A) > 0$	S.t.P. the symmetry of Green's function	$\alpha + [f(A)] = f(^{\alpha+}A)$ $^{\alpha}[f(A)] \supseteq f(^{\alpha}A)$	VAM (Vogel's Approximation Method	$m' = \frac{1}{2}\sum_{j=1}^{n} d_j^2 - m$
12	Pratima Sahu	Riesz Lemma	Donkin's Theorem	$P = \begin{bmatrix} 0.3 & 0.5 & 0.8 \\ 0.0 & 0.7 & 1.0 \\ 0.4 & 0.6 & 0.5 \end{bmatrix}$ $Q = \begin{bmatrix} 0.9 & 0.5 & 0.7 & 0.7 \\ 0.3 & 0.1 & 0.0 & 0.9 \\ 1.0 & 0.0 & 0.5 & 0.5 \end{bmatrix}$	Big-M method	Prove that for any graph G. $\alpha_0 + \beta_0 = n$
13.	Vaseem Quraishi	Let $\{(A_i \times B_i)\}$ be a countable disjoint collection of measurable rectangle whose union is measurable rectangle $A\times B$. Then show that $\lambda(A\times B) = \Sigma\lambda(A_i\times B_i)$	Plancherel theorem (Unit)	Characterization theorem of T-Norms	DJkastra algorithm (Find the shortest path.	operation on graph.


Name – Neelima Patel
Topic – Jordan Decomposition Theorem
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04/11/2023
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Name - Pragati Sahu
Sub - Fubini's theorem
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Name Khushi
04/11/2023
"Black Board Presentation" / Subject F.A.
Theorem:- Prove that countable union of Negative Set is Negative
Required Definition:
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Name.. Vaseem Quraishi
Let {(Ai × Bi)} be a countable disjoint collection of measurable rectangle whose union is measurable rectangle.
Required definition.
Product measure.
Measurable rectangle
Measurable Rectangle:- Let (X, S1, μ) and (Y, S2, ν) be two measurable space.
Main Proof:- Let (X, β1, μ1) and (Y, δ2, μ2) be two measurable space.
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Name - Anamika Jena
04/11/2023
Black Board
Topic - Redon Nikodym
Statement:- Let (x, β, μ) be a σ-finite
measure
then
then
we
and

Green Board Presentation - 2023
Subject - Funtional Analysis
Extension Theorem
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(I) Defuzzification Method

(I) Center of Area Method.

(II) Center of Maxima method.

(III) Mean of maxima method.

1) Center of Area method:-

This method is also called the center of gravity method or centroid method.

The fuzzified value $d_{CA}(c)$ is defined as the value within the range of variable.

$$d_{CA}(c) = \frac{\int_{-c}^{c} c(z)\, z\, dz}{\int_{-c}^{c} c(z)\, dz}$$

For discrete case

$$d_{CA}(c) = \frac{\sum_{k=1}^{n} c(z_k)\, z_k}{\sum_{k=1}^{n} c(z_k)} \quad \forall\, k = 1, 2 \ldots n.$$

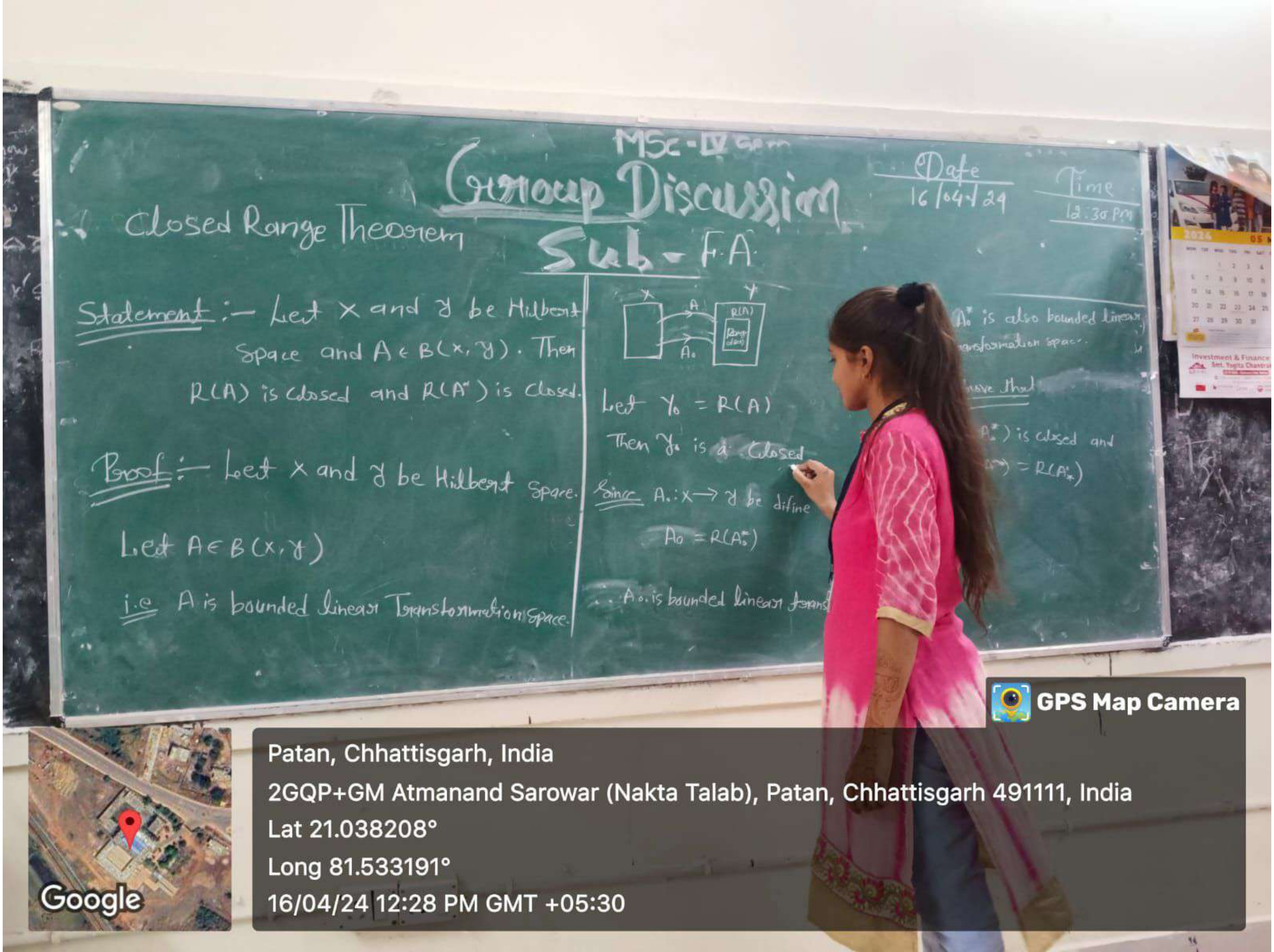
2) Center of Maxima method:-

$$d_{CM}(c) = \frac{\inf M + \sup M}{2}$$

where, $M = \{ z \in [-c, c] \mid c(z) = h(c) \}$

3) Mean of maxima method

$$d_{MM}(c) = \frac{\sum_{k=1}^{n} c^{p}(z_k)\, z_k}{|M|}$$


MSc-IV sem
Group Discussion
Date 16/04/24
Time 12:30 PM
Closed Range Theorem
Sub - F.A
Statement :- Let X and Y be Hilbert Space and A ∈ B(X, Y). Then R(A) is closed and R(A*) is closed.
Proof :- Let X and Y be Hilbert Space.
Let A ∈ B(X, Y)
i.e A is bounded linear Transformation Space.
Let Y₀ = R(A)
Then Y₀ is a closed
Since A₀ : X → Y be define
A₀ = R(A₀*)
∴ A₀ is bounded linear trans
A₀* is also bounded linear
transformation space.
) is closed and
= R(A₀*)
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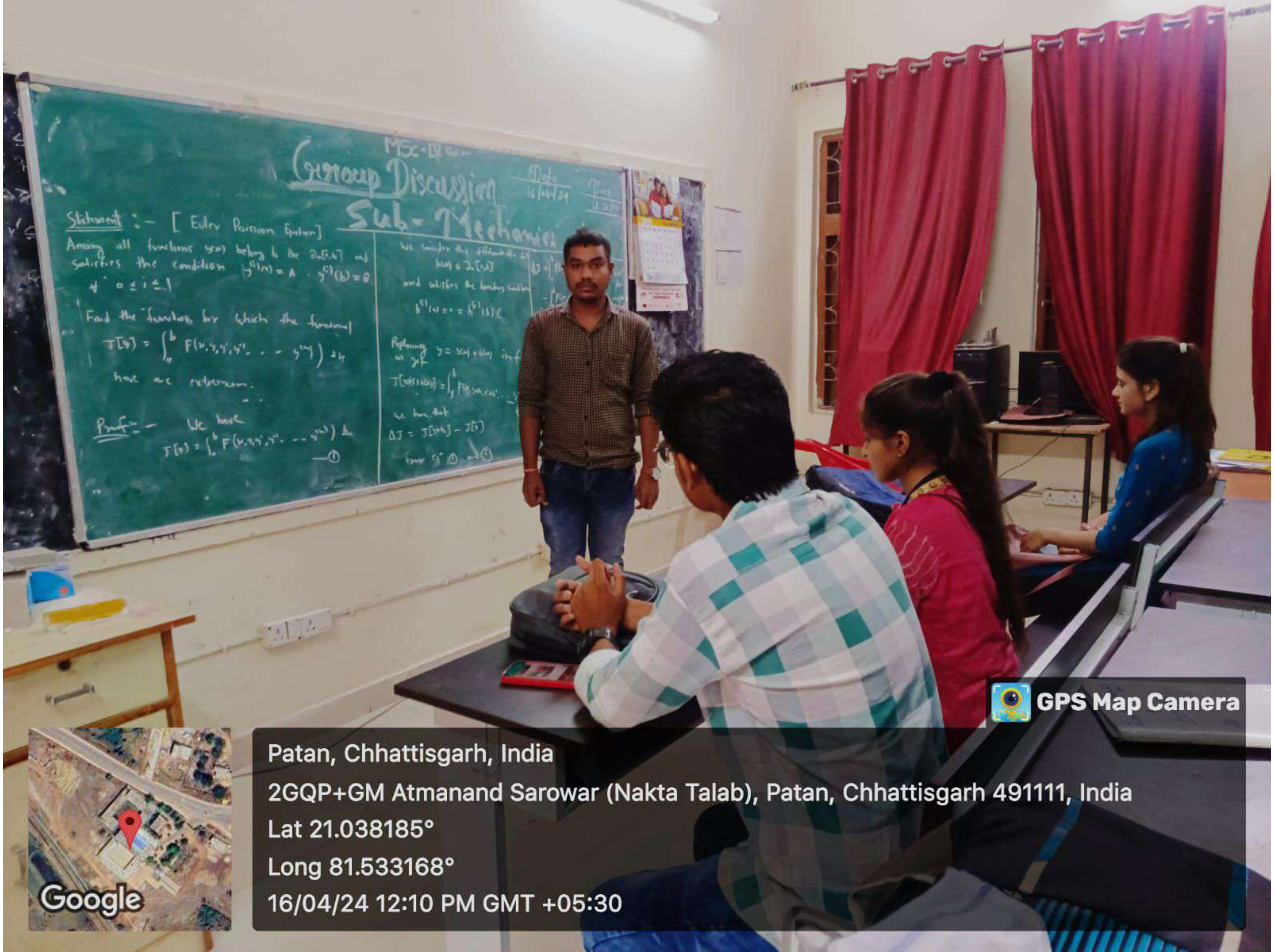
Group Discussion
Sub - Mechanics
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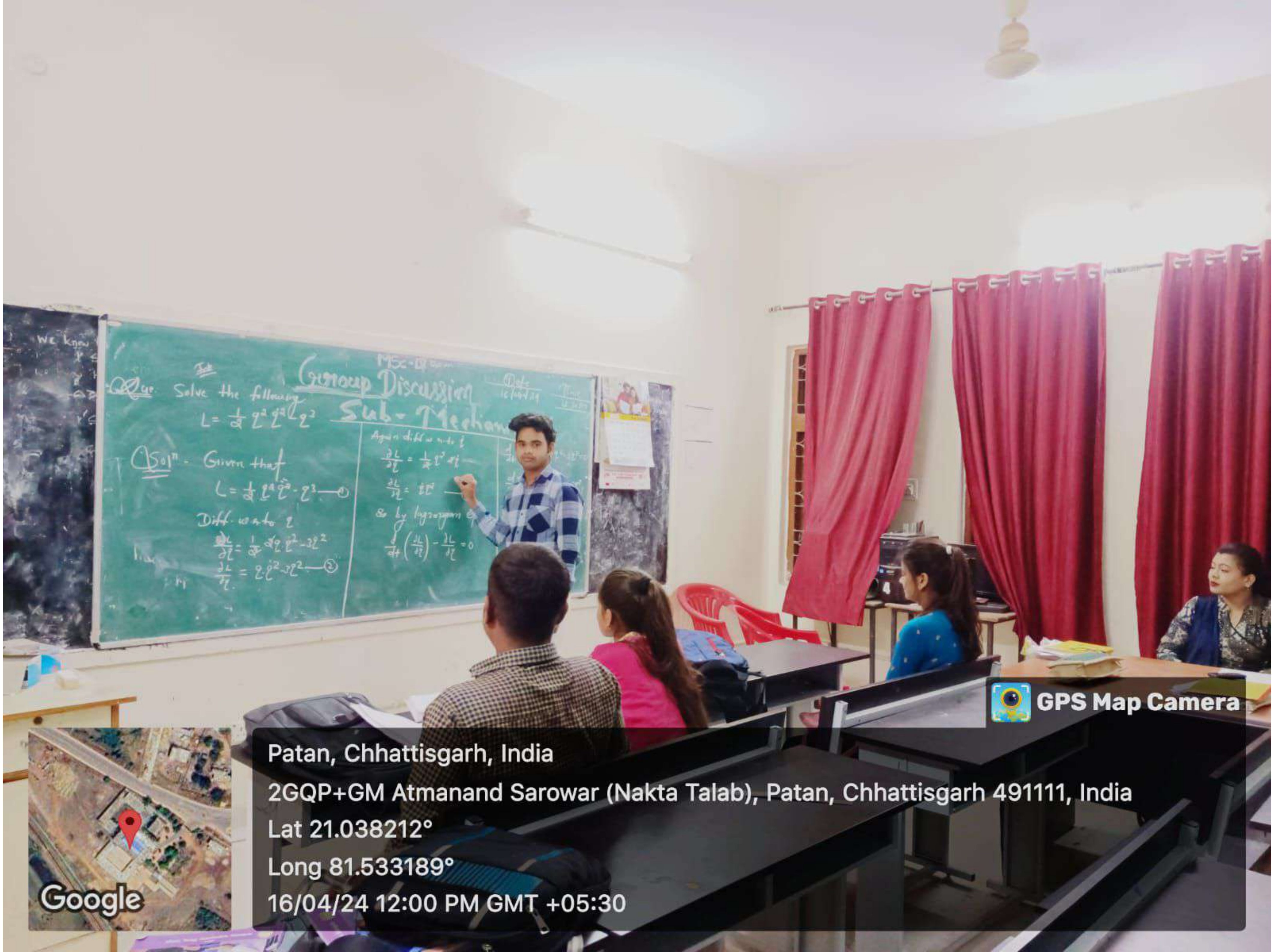
Group Discussion
Solve the following
Given that
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Black Board PPT
Lemma: Every graph on
Definition: # Complete Subgraph
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