

**2.3.5 The teaching learning process of the institution nurtures creativity, analytical skills and innovation among students**

Godavari Foundation's  
DR. ULHAS PATIL MEDICAL COLLEGE & HOSPITAL, JALGAON  
DEPARTMENT OF BIOCHEMISTRY  
Seminar Schedule MBBS Batch 2023-2024

**NOTICE**

It is informed to all the students of MBBS Batch 2023-2024, the seminar to be held as per the following schedule.

**Time: - 09:00-10:00 am**

S.No.	Date	Roll No.	Topic	Signature
1.	02-05-24	41	Balanced diet in adult, childhood and pregnancy for optimal health	<i>[Signature]</i>
2.	02-05-24	42	Dietary advice in diabetes mellitus and coronary heart disease	<i>[Signature]</i>
3.	02-05-24	43	Cells of the immune system	<i>[Signature]</i>
4.	02-05-24	44	Types of immune systems (innate & adaptive)	<i>[Signature]</i>
5.	02-05-24	45	Cellular & Humoral components of innate and adaptive immune systems	<i>[Signature]</i>
6.	02-05-24	46	B cell development and formation of antibodies	<i>[Signature]</i>
7.	02-05-24	47	Types of B cell development	<i>[Signature]</i>
8.	02-05-24	48	Structure of B cell development	<i>[Signature]</i>
9.	02-05-24	49	Mechanism of action of antibodies (immunoglobulins)	<i>[Signature]</i>
10.	02-05-24	50	Primary and Secondary response	<i>[Signature]</i>



*[Signature]*  
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Dr. Ulhas Patil Medical College  
& Hospital, Jalgaon Kh.





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Email ID : dupmcj@yahoo.in, dupmcj@gmail.com Website : www.dupmc.ac.in**NAAC ACCREDITED**

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**NOTICE**

It is informed to all the students of MBBS Batch 2023-2024, the seminar to be held as per the following schedule.

**Time: - 01:30-02:30 pm**

S.No.	Date	Roll No.	Topic	Signature
1.	07-05-24	61	Hypersensitivity and Antigens	<i>[Signature]</i>
2.	07-05-24	62		<i>[Signature]</i>
3.	07-05-24	63		<i>[Signature]</i>
4.	07-05-24	64		<i>[Signature]</i>
5.	07-05-24	65		<i>[Signature]</i>
6.	07-05-24	66	Concept involved in vaccine development and its types	<i>[Signature]</i>
7.	07-05-24	67		<i>[Signature]</i>
8.	07-05-24	68		<i>[Signature]</i>
9.	07-05-24	69		<i>[Signature]</i>
10.	07-05-24	70		<i>[Signature]</i>
11.	07-05-24	71	Functions of thyroid, disorders & thyroid function tests	<i>[Signature]</i>
12.	07-05-24	72		<i>[Signature]</i>
13.	07-05-24	73		<i>[Signature]</i>
14.	07-05-24	74		<i>[Signature]</i>
15.	07-05-24	75		<i>[Signature]</i>
16.	07-05-24	76	Functions of adrenals, disorders & adrenal function tests	<i>[Signature]</i>
17.	07-05-24	77		<i>[Signature]</i>
18.	07-05-24	78		<i>[Signature]</i>
19.	07-05-24	79		<i>[Signature]</i>
20.	07-05-24	80		<i>[Signature]</i>
21.	07-05-24	81	Recombinant DNA technology, its steps & applications; Restriction endonucleases; DNA library	<i>[Signature]</i>
22.	07-05-24	82		<i>[Signature]</i>
23.	07-05-24	83		<i>[Signature]</i>
24.	07-05-24	84		<i>[Signature]</i>
25.	07-05-24	85		<i>[Signature]</i>



*[Handwritten Signature]*

Dean,

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**Time: - 09:00-10:00 am**

S.No.	Date	Roll No.	Topic	Signature
1.	08-05-24	101	Cells of immune system, Types of immune systems (innate & adaptive),	<i>[Signature]</i>
2.	08-05-24	102	cellular and humoral components of innate and adaptive immune systems	<i>[Signature]</i>
3.	08-05-24	103		<i>[Signature]</i>
4.	08-05-24	104		<i>[Signature]</i>
5.	08-05-24	105		<i>[Signature]</i>
6.	08-05-24	106	B cell development and formation of antibodies, types, structure and mechanism of action of antibodies (immunoglobulins), primary and secondary response	<i>[Signature]</i>
7.	08-05-24	107		<i>[Signature]</i>
8.	08-05-24	108		
9.	08-05-24	109		
10.	08-05-24	110		<i>[Signature]</i>
11.	08-05-24	111	Innate and adaptive immune systems, immunological memory, T lymphocytes development, role of helper T cells (CD4+ T cells) and Cytotoxic T cells in immune response	<i>[Signature]</i>
12.	08-05-24	112		<i>[Signature]</i>
13.	08-05-24	113		<i>[Signature]</i>
14.	08-05-24	114		<i>[Signature]</i>
15.	08-05-24	115		<i>[Signature]</i>
16.	08-05-24	116	Role of killer cells and CD8+ T cells in immune response, Brief concept of MHC, Immunodeficiency and Autoimmunity	<i>[Signature]</i>
17.	08-05-24	117		<i>[Signature]</i>
18.	08-05-24	118		<i>[Signature]</i>
19.	08-05-24	119		<i>[Signature]</i>
20.	08-05-24	120		<i>[Signature]</i>
21.	08-05-24	121	Hypersensitivity and Antigens	<i>[Signature]</i>
22.	08-05-24	122		<i>[Signature]</i>
23.	08-05-24	123		<i>[Signature]</i>
24.	08-05-24	124		<i>[Signature]</i>
25.	08-05-24	125		<i>[Signature]</i>



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**NOTICE**

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**Time: - 09:00-10:00 am**

S.No.	Date	Roll No.	Topic	Signature
1.	09-05-24	141	Recombinant DNA technology, its steps & applications; Restriction endonucleases; DNA library	<i>[Signature]</i>
2.	09-05-24	142		<i>[Signature]</i>
3.	09-05-24	143		<i>[Signature]</i>
4.	09-05-24	144		<i>[Signature]</i>
5.	09-05-24	145		<i>[Signature]</i>
6.	09-05-24	146	Blotting technique (Southern, Northern & Western); PCR – steps & its applications	<i>[Signature]</i>
7.	09-05-24	147		<i>[Signature]</i>
8.	09-05-24	148		<i>[Signature]</i>
9.	09-05-24	149		<i>[Signature]</i>
10.	09-05-24	150		<i>[Signature]</i>
11.	09-05-24	151	Causes, effects & health risk associated with obesity; Dietary advice in diabetes mellitus & coronary heart disease	<i>[Signature]</i>
12.	09-05-24	152		<i>[Signature]</i>
13.	09-05-24	153		<i>[Signature]</i>
14.	09-05-24	154		<i>[Signature]</i>
15.	09-05-24	155		<i>[Signature]</i>
16.	09-05-24	156	Balanced diet in adult, in childhood & in pregnancy for optimal health; Cells of immune system; Types of immune systems (innate & adaptive)	<i>[Signature]</i>
17.	09-05-24	157		<i>[Signature]</i>
18.	09-05-24	158		<i>[Signature]</i>
19.	09-05-24	159		<i>[Signature]</i>
20.	09-05-24	160		<i>[Signature]</i>
21.	09-05-24	161	Cells of immune system, Types of immune systems (innate & adaptive), cellular and humoral components of innate and adaptive immune systems	<i>[Signature]</i>
22.	09-05-24	162		<i>[Signature]</i>
23.	09-05-24	163		<i>[Signature]</i>
24.	09-05-24	164		<i>[Signature]</i>
25.	09-05-24	165		<i>[Signature]</i>

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**NAAC ACCREDITED****Dr. Ulhas Patil Medical College & Hospital, Jalgaon Kh.****Department of Physiology****Date: -03/04/2024****CBME 1<sup>st</sup> MBBS Batch 2023-24  
Seminar (Self Directing Learning)****Marks-15**

This is to inform you that all 1<sup>st</sup> Year MBBS students department Physiology organizing seminar.

<b>Date</b>	<b>Time</b>	<b>Roll No.</b>	<b>Topics</b>
08/04/2024	2.30 to 4.30 pm	101-200	Transport Across Cell Membrane
15/04/2024	2.30 to 4.30 pm	01-100	Shock

Venue: - Dr. Aniket Hall

*RSA***Professor & Head  
Department of Physiology****Professor & HOD  
Dept. of Physiology  
Dr. Ulhas Patil Medical College &  
Hospital Jalgaon Kh, Jalgaon.**



**Dr. Ulhas Patil Medical College & Hospital, Jalgaon****1st year MBBS for the academic year 2023-2024****Department of Physiology****Date: -08 .04.2024**

Roll No.	Name of Students	15 Marks	
101	Mahulkar Srishti Jagdish	11	<i>Mahulkar</i>
102	Mali Anjali Gautam	10	<i>Anjali</i>
103	Mali Chetan Arjun		Absent
104	Malji Anoushka Vishwanath	10	<i>Malji</i>
105	Mandhan Rohit Manoj	08	<i>Rohit</i>
106	Mane Rohan Bhagwan	08	<i>Rm.</i>
107	Mankar Gayatri Nitin	09	<i>Ganpat</i>
108	Mohite Jivarsh Namdev	08	<i>Jivarsh</i>
109	Momin Aaisha Siddiqua Zillurrahman		Absent
110	Momin Mohammad Faaz Mohammad Shoeb		Absent
111	Mote Akash Shivaji	08	<i>Akash</i>
112	Mule Srushti Vasant		Absent
113	Muley Krushna Babasaheb	08	<i>Krushna</i>
114	Muley Manish Gajanan	11	<i>Manish</i>
115	Mundhe Ankit Santosh	09	<i>Anankha</i>

**Dr. Ulhas Patil Medical College & Hospital, Jalgaon****1st year MBBS for the academic year 2023-2024****Department of Physiology****Date: -08 .04.2024**

Roll No.	Name of Students	15 Marks	
116	Munot Pranav Amol	08	P
117	Muttepwar Samruddhi Sunil	10	P
118	Nalwade Tushar Bhausahab	09	P
119	Narwade Mayur Sahebrao		Absent
120	Nawale Devashri Anil		Absent
121	Nitin Bhambere	09	P
122	Pagrut Gayatri Sandip	09	P
123	Patel Brijesh Ashok	09	P
124	Pathan Azhar Khan Noor Khan		Absent
125*	Pathan Fardeen Khan Feroz Khan		Absent
126	Pathrikar Prajwal Damodar	11	P
127	Patil Abhishek Nilesh		Absent
128	Patil Amit Prafull	12	P
129	Patil Anuja Bhausahab	10	P
130	Patil Apoorva Ishwar	09	P



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Roll No.	Name of Students	15 Marks	
131	Patil Chaitanya Jaiprakash	13	<i>[Signature]</i>
132	Patil Dhanashri Nandalal	12	<i>[Signature]</i>
133	Patil Kalpesh Sunil	12	<i>[Signature]</i>
134	Patil Payal Prashant	12	<i>[Signature]</i>
135	Patil Pratiksha Mahadev	12	<i>[Signature]</i>
136	Patil Rajas Vasant	12	<i>[Signature]</i>
137	Patil Rajnandini Pandurang	10	<i>[Signature]</i>
138	Patil Rushikesh Yamaji	12	<i>[Signature]</i>
139	Patil Shravani Shivaji	13	<i>[Signature]</i>
140	Patil Viraj Shailendrasing	ABSENT	AB.

*[Signature]*  
08/04/24.

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Roll No.	Name of Students	15 Marks	
141	Patil Yash Govindrao	<i>Yash</i>	12
142	Pawara Akansha Premchand	<i>Akansha</i>	10
143	Pawara Himmat Anil	<i>Himmat</i>	12
144	Pise Sakshi Narayan	<i>Sakshi</i>	12
145	Potadar Vaibhavi Vivekrao	<i>Vaibhavi</i>	11
146	Prachi R Dhankute	<i>Prachi</i>	13
147	Prajapati Parikshit Arjunram	<i>Parikshit</i>	12
148	Puttewad Vivek Sangram	<i>Vivek</i>	12
149	Rahangdale Vishwajeet Tekchand	<i>Vishwajeet</i>	12
150	Rajpal Rahul Rajesh	<i>Rajpal</i>	12



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Seminar (Self Directing Learning)****Marks-15**

This is to inform you that all 1<sup>st</sup> Year MBBS students department of Physiology organizing seminar.

Date	Time	Roll No.	Venue	Topics
09/05/2024	2.30 to 4.30 pm	51-66	Hematology lab	Transport of gasses
09/05/2024	2.30 to 4.30 pm	67-83	Demo room	Regulation of respiration
09/05/2024	2.30 to 4.30 pm	84-100	Dr. Aniket Hall	Hypoxia, Abnormal breathing Acclimatization

*P&A***Professor & Head  
Department of Physiology**

**Dr. Ulhas Patil Medical College & Hospital, Jalgaon****1st year MBBS for the academic year 2023-2024****Department of Physiology****Attendance****Date: -09 .05.2024**

Roll No.	Name of Students	15 Marks	
51	Gunjkar Omkar Digambar	11	<i>Gunjkar</i>
52	Gupta Anjali Ramnaresh	12	<i>Anjali</i>
53	Gutte Yashshree Pandharinath	11	<i>Gutte</i>
54	Hardik Vinod Jaiswal	12	<i>Hardik</i>
55	Hiwase Yashogandh Surendra	09	<i>Yash</i>
56	Ingale Shrikrushna Rajendra		Absent
57	Jadhao Soham Kisan		Absent
58	Jadhav Akash Umesh	10	<i>Jadhav</i>
59	Jadhav Ashwini Babasaheb	12	<i>Jadhav</i>
60	Jadhav Atharv Pravin	10	<i>Jadhav</i>
61	Jadhav Krishnakant Vijay	11	<i>JADHAV</i>
62	Jadhav Sanskruti Raju	12	<i>Jadhav</i>
63	Jamadar Abu Talha Yunus	10	<i>Talha</i>
64	Jungare Devyani Nandkishor	11	<i>DNJungare</i>
65	Jungulwad Avdhut Prabhu		



**Dr. Ulhas Patil Medical College & Hospital, Jalgaon****1st year MBBS for the academic year 2023-2024****Department of Physiology****Attendance****Date: -09 .05.2024**

Roll No.	Name of Students	15 Marks	
66	Kadam Vaibhav Chatrabhuj	10	Kadam
67	Kaitade Siddhesh Sharad	11	
68	Kajarkhane Vishakha Rajesh	11	Visho
69	Kakade Vedant Vinayak	10	Kakade
70	Kakde Gaurav Sunilrao	10	@Kakade
71	Kale Sanskruti Uday	11	Kale
72	Kalyani Chaudhari	12	Kalyani
73	Kamble Sanket Manohar	10	Sanket
74	Katkar Devesh Devidas		Absent
75	Katmore Pruthviraj Rajkumar	10	Katmore
76	Katte Baswaraj Santosh	10	Baswaraj
77	Khadse Sanneet Sanjay		Absent
78	Khairnar Umang Kaustubh		Absent
79	Khalekar Mukund Mahesh	11	MKhalekar
80	Khan Mariya Firdaus Mohammed Ashhar	12	Khan

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Roll No.	Name of Students	15 Marks	
81	Khan Saba Parveen Matiullah	12	Saba
82	Kharode Unnati Ramesh	11	Unnati
83	Khivsara Samruddhi Sachin	12	Samruddhi
84	Khwaja Sadiqueullah Javedullah	12	Sadique
85	Kokane Hariom Shivaji	10	Hariom
86	Kore Aditya Santosh	10	Aditya
87	Kukade Aakash Sanjay	10	Aakash
88	Kukade Piyush Mahendra	Absent.	
89	Kureshi Rahim Altaf	10	Rahim
90	Lad Samarth Dattatray	12	Samarth



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Roll No.	Name of Students	15 Marks	
91	Lahadke Labhesh Umakant	13	Labhesh
92	Lahoti Shiraj Girish	13	Shiraj
93	Lambat Shreya Harikisan	13	Shreya
94	Lende Sanskriti Kishor	13	Sanskriti
95	Lohgaonkar Apurva Uttam	12	Apurva
96	Lokhande Soham Kailaskumar	10	Soham
97	Lokwani Aaishwarya Puranlal	12	Aaishwarya
98	Mahajan Anjali Ajay	14	Anjali
99	Mahalle Gaurav Santosh	12	Gaurav
100	Mahalle Yash Avinash	14	Yash

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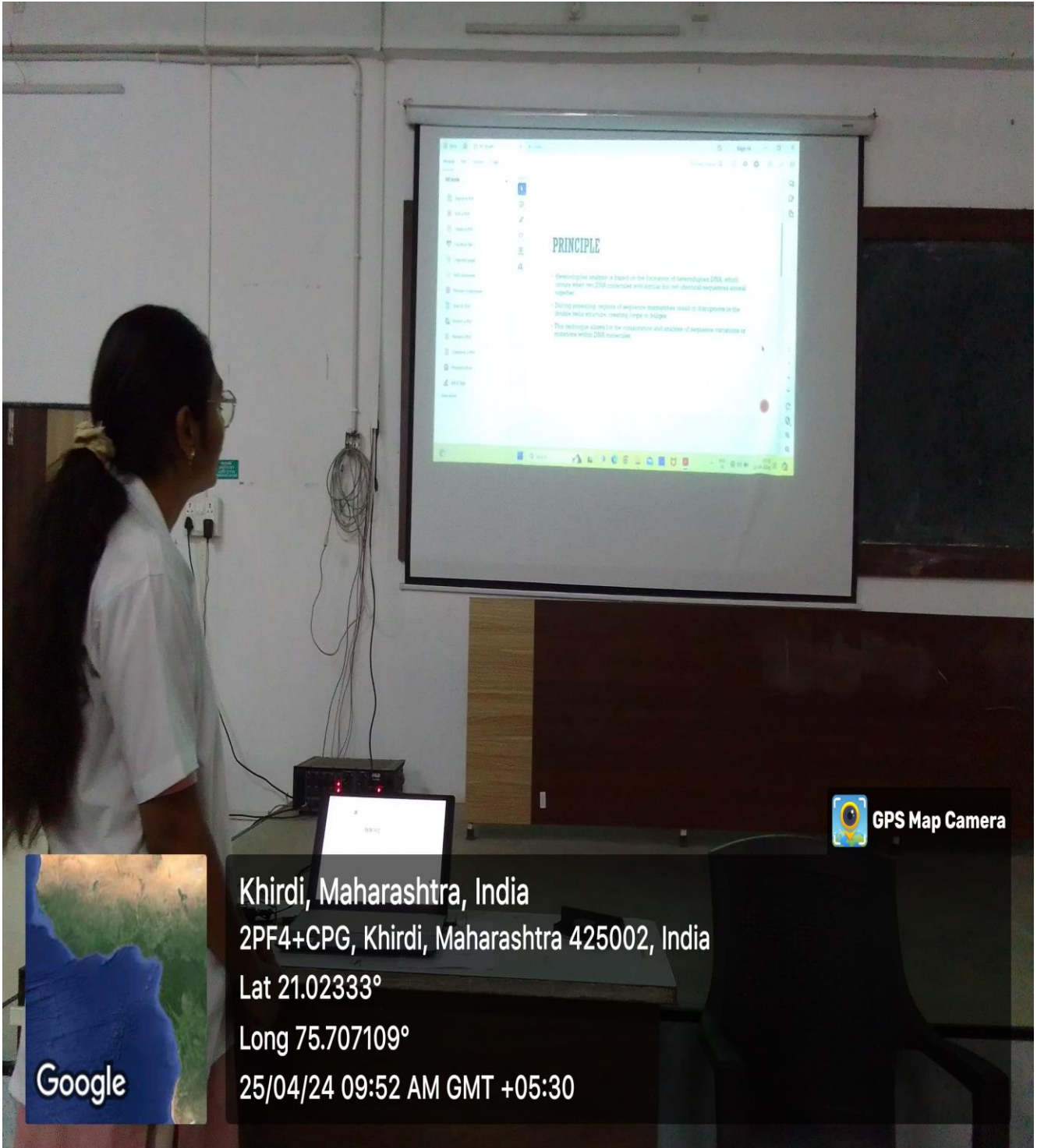
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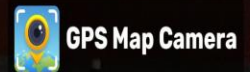
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Letter no. MCI-34(41)/2012-med./158127, dated 05/02/2013

Affiliated to Maharashtra University of Health Sciences, Nashik [College Code-1306]

Jalgaon-Bhusawal Road, Jalgaon Kh, Tal. & Dist. Jalgaon 425309 Tel. No.(0257)2366657, 2366678  
Email ID : dupmcj@yahoo.in, dupmcj@gmail.com Website : www.dupmc.ac.in

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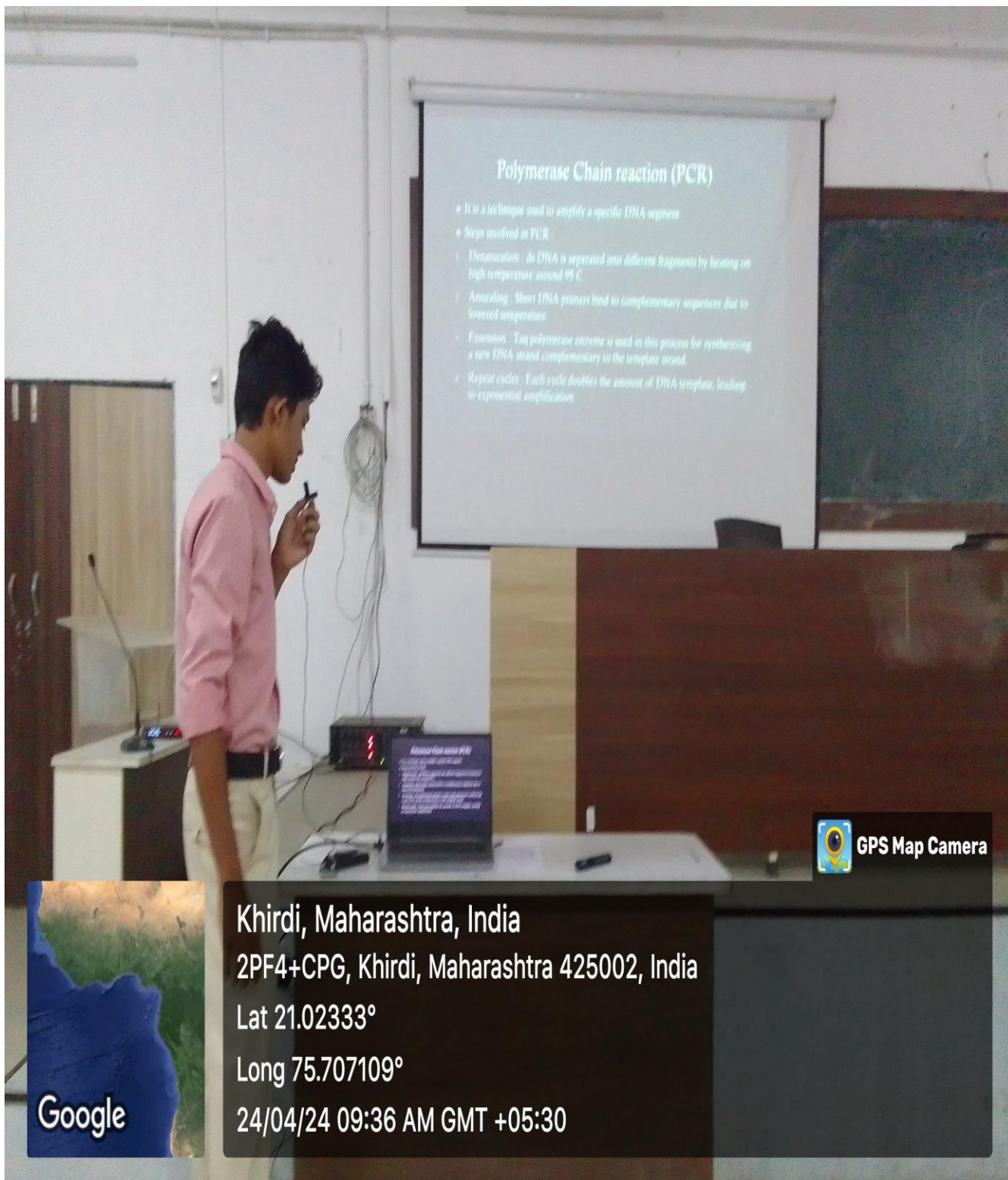
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## Polymerase Chain reaction (PCR)

- It is a technique used to amplify a specific DNA segment
- Steps involved in PCR:
  - Denaturation : ds DNA is separated into different fragments by heating on high temperature around 95 C.
  - Annealing : Short DNA primers bind to complementary sequences due to lowered temperature.
  - Extension : Taq polymerase enzyme is used in this process for synthesizing a new DNA strand complementary to the template strand.
  - Repeat cycles : Each cycle doubles the amount of DNA template, leading to exponential amplification.



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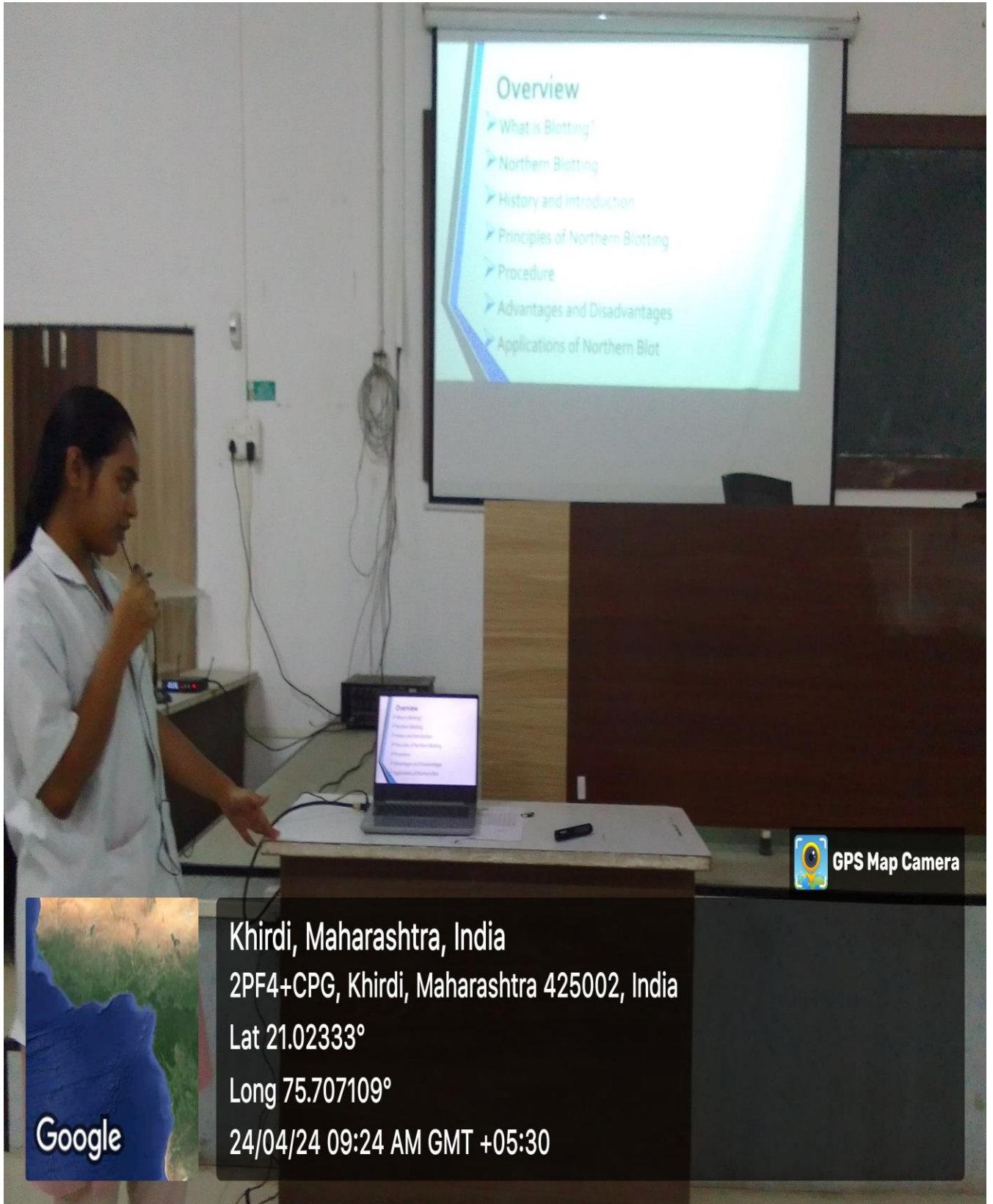
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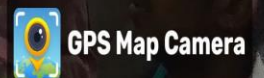
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