

Pune District Education Association's Annasaheb Magar Mahavidyalaya

Hadapsar, Pune-411028

Affiliated to Savitribai Phule Pune University, Pune



Self Study Report: 2024 (4th Cycle)



Criterion - 5
Student Support and
Progression

Key Indicator- 5.1 Student Support

Metric: 5.1.2 (QnM)

capacity development and skills enhancement activities are organised for improving students' capability

- 1. Soft skills
- 2. Language and communication skills
- 3. Life skills
- 4. Awareness of trends in technology



Submitted to



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Hadapsar, Pune-411028

Affiliated to Savitribai Phule Pune University, Pune



Self Study Report: 2024 (4th Cycle)

5.1.2 - Capacity development and skills Enhancement Activities

Index (2021-2022)

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Soft Skill				
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2	A Webinar on Role of Soft Skills in Personality	8-9		
3	A Guest Lecture on Soft Skills	10-11		
4	Group Discussion	12-13		
5	Guest Lecture: HPLC Technique	14-17		
6	A Lecture on Personality Development and Career Counseling	18-19		
7	Quiz Competition	20-21		
Language and Communication				
1	A Lecture by a Creative Writer on Hindi Day	23-24		
2	A Webinar on Appreciation of Poetry	25-26		
3	Vaachan Prerana Din (Reading inspiration Day): Kavyavaachan (Poetry Recitation)	27-28		
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Criterion V 2 | P a g e

5	Short Story Writing Competition	32-37		
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2	Webinar on Yoga Theory and Practice	41-42		
3	World Hand Wash Day	43-44		
4	Nutrition workshop	45-47		
5	A Yoga Session	48-49		
6	Social Program : Sanitary Napkins Distribution Program	50-51		
7	Self- Defense Program	52-54		
8	Free Medical Checkup Camp	55-56		
9	World Water Day	57-60		
10	Free Health Checkup Center	61-62		
11	A Lecture on 'Mi Kasa Ghadlo' (How I Evolved)	63-64		
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Criterion V 3 | P a g e

Index (2021-2022)

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1	How to Make PPT	72 - 80		
2	Guest Lecture on Web Framework	81 - 82		
3	Guest Lecture on Cyber Security	83 - 84		
4	Online PPT Presentation by Students	85 - 99		

Criterion V 4 | P a g e

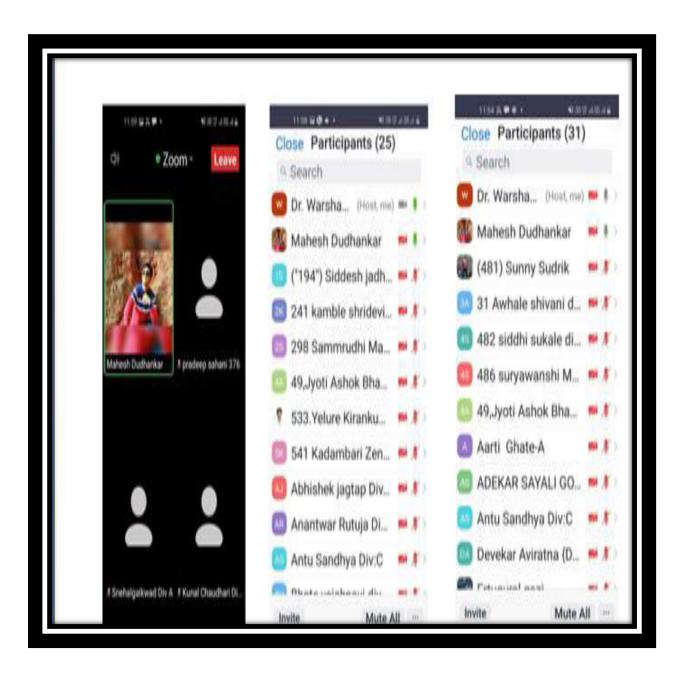
Soft Skills 2021 - 2022

Criterion V 5 | P a g e

1. A Webinar on English Grammar By English Department

Criterion V 6 | P a g e

Webinar on English Grammar Photo



Criterion V 7 | P a g e

2. A Webinar on Role of
Soft Skills in
Personality
By
English Department
(08/10/2021)

Criterion V 8 | P a g e

Role of Soft Skills in Personality Development Photo



Criterion V 9 | P a g e

3. A Guest Lecture on Soft Skills

By

Computer Science
Department (08/01/2022)

Criterion V 10 | P a g e

A Guest Lecture on Soft skills Photos of Guest Mr.Shinde Pratikshya Delivering Lecture



Criterion V 11 | P a g e

4. Group Discussion

By

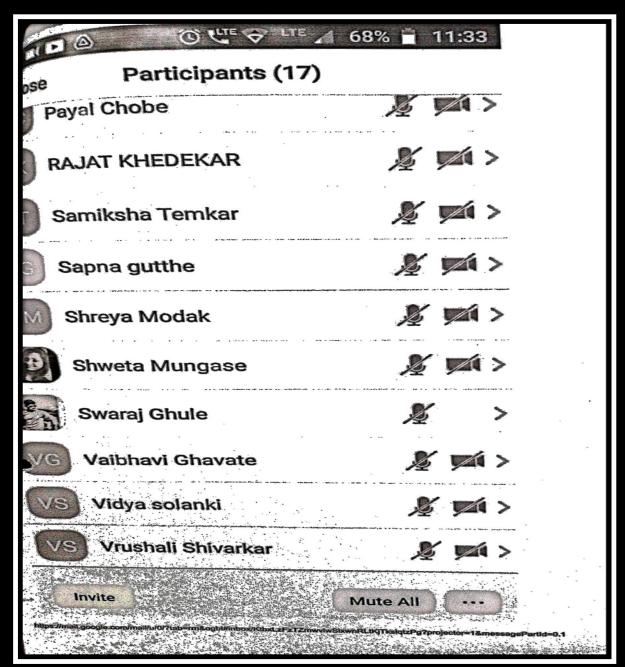
BBA Department

(19/01/2022)

Criterion V 12 | P a g e

Group Discussion

Attendance



Criterion V 13 | P a g e

5. Guest Lecture on HPLC Technique:
 Application
 By
Chemistry Department (26/03/2022)

Criterion V 14 | P a g e

A Lecture on HPLC Technique: Application Photos of PPT Presentation



Criterion V 15 | P a g e

A Lecture on HPLC Technique: Application Photos of felicitation of Guest Dr.Shrikant Takale



Criterion V 16 | P a g e

A Lecture on HPLC Technique: Application Photos of Guest Dr. Shrikant Takale addressing students



Criterion V 17 | P a g e

6. A Lecture on Personality
Development and career
counseling

By

BBA department
(06/04/2022)

Criterion V 18 | P a g e

A Lecture Personality Development and Career Counseling Photos of Guest Dr Vishal Weldode Explaining students



Criterion V 19 | P a g e

7. Quiz Competition

By

Physics Department

(29/04/2022)

Criterion V 20 | P a g e

Quiz Competition Photos





Criterion V 21 | P a g e

Language and Communication 2021 - 2022

Criterion V 22 | P a g e

1. A Lecture by a Creative Writer on Hindi Day By Hindi Department 14/09/2021

Criterion V 23 | P a g e

A Lecture by a Creative Writer on Hindi Day

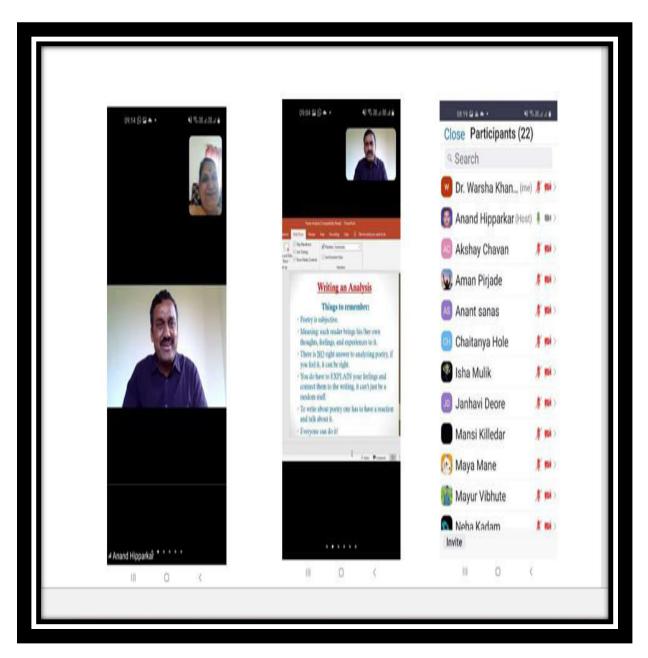


Criterion V 24 | P a g e

2. A Webinar on Appreciation of Poetry By English Department 09/10/2021

Criterion V 25 | P a g e

A Webinar on Appreciating Poetry Photo



Criterion V 26 | P a g e

3.Vaachan Prerana Din (Reading inspiration Day): Kavya vaachan (Poetry Recitation)

By

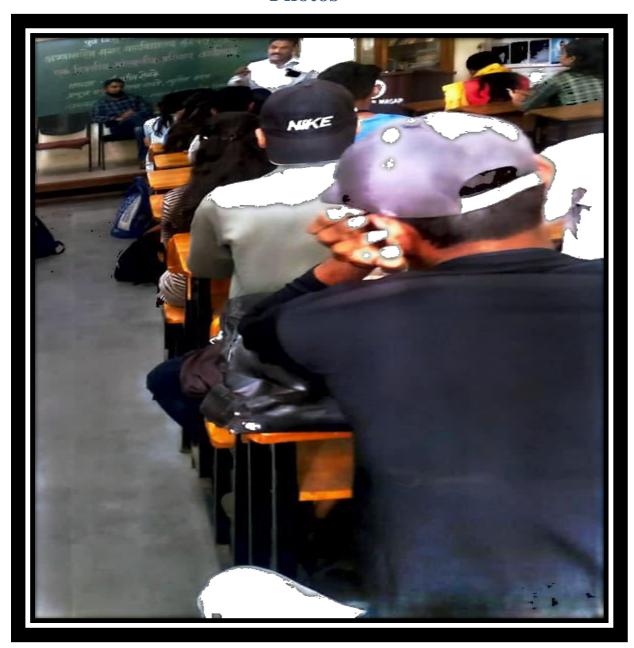
Hindi Department

15/10/2021

Criterion V 27 | P a g e

Vachan Prerana Din (Reading Inspiration Day): Kaavyavaachan (Poetry Recitation)

Photos



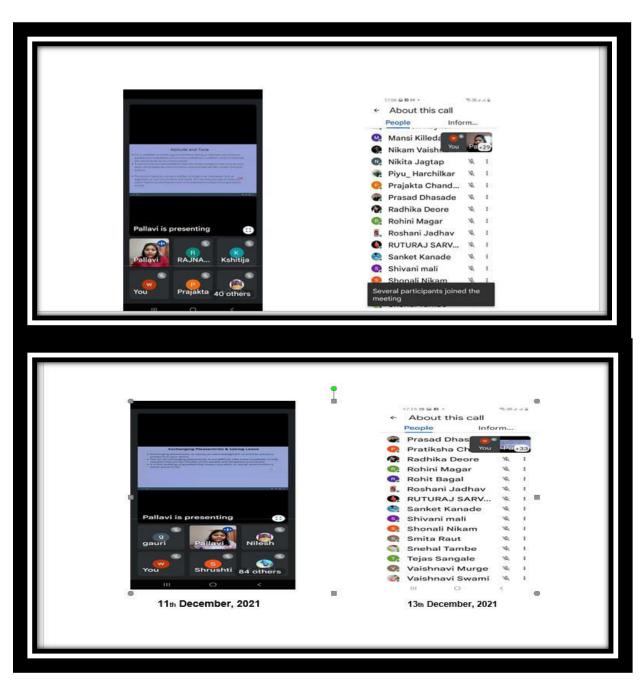
Criterion V 28 | P a g e

4. A Certificate Course in Communication Skills By

English Department 06/12/2021 to 23/12/2021

Criterion V 29 | P a g e

A Certificate Course in Communication Skills Photo



Criterion V 30 | P a g e

A Certificate Course in Communication Skills Photo



Criterion V 31 | P a g e

5. Short Story Writing Competition By BBA Department 27/04/2022

Criterion V 32 | P a g e

Short Story Writing Compition Photos





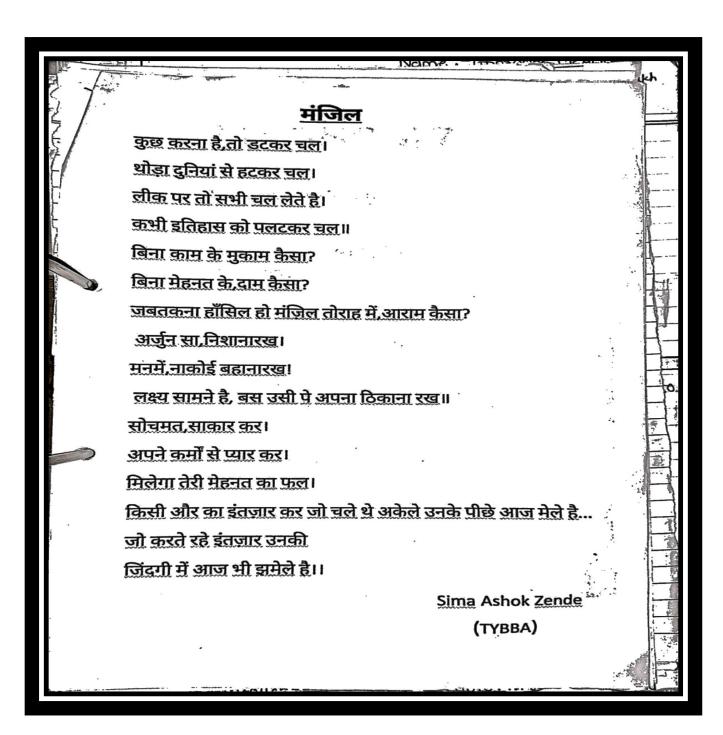
Criterion V 33 | P a g e

Short Story Writing Compition Photos



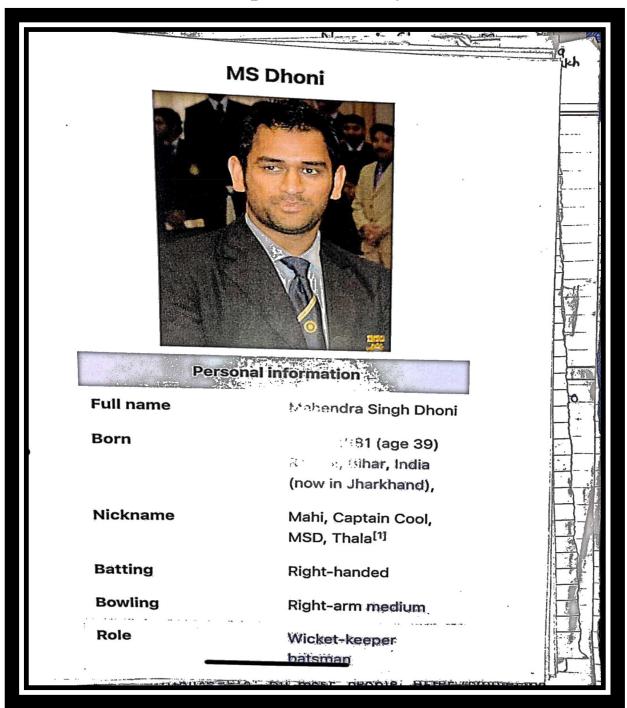
Criterion V 34 | P a g e

Sample Short Story 1



Criterion V 35 | P a g e

Sample Short Story 2



Criterion V 36 | P a g e

Sample Short Story 2

Mahendra Singh Dhoni (

pronunciation (help·info) born 7 July 1981), i a former Indian international cricketer who captained the Indian national team in limitedovers formats from 2007 to 2016 and in Test cricket from 2008 to 2014. Under his captaincy, India won the inaugural 2007 ICC World Twenty20, the 2010 and 2016 Asia Cup: the 2011 ICC Cricket World Cup and the 2013 ICC Champion's Trophy. A right-handed middle-order batsman and wicket-keeper, Dhoni is one of the highest run scorers in One Day Internationals (ODIs) with more than 10,000 runs scored and is considered an effective "finisher" in limited-overs formats.[2][3][4] He is widely regarded as one c the greatest wicket-keeper batsmen and captains in the history of the game.^{[5][6][7][8][9][10][11]} He was also the first wicket-keeper to effect 100 stumpings in ODI cricket.[12]

Criterion V 37 | P a g e

Life Skills

2021 - 2022

Criterion V 38 | P a g e

1. Webinar on Mental and Emotional Wellbeing

By

English Department.

26/08/2021

Criterion V 39 | P a g e

Webinar on Mental and Emotional Wellbeing Photo



Criterion V 40 | P a g e

2. Webinar on Yoga Theory and Practice By English Department 27/09/2021

Criterion V 41 | P a g e

Webinar on Yoga Theory and Practice Photo

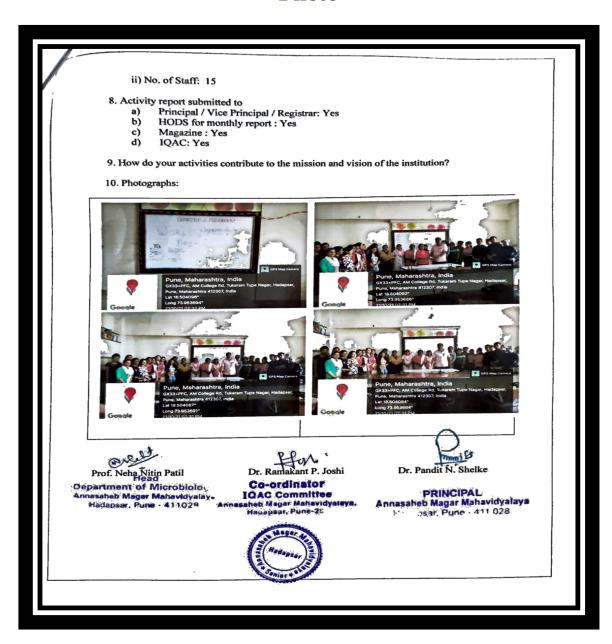


Criterion V 42 | P a g e

3. World Hand Wash Day By Microbiology Department 21/10/2021

Criterion V 43 | P a g e

World Hand Wash Day Photo

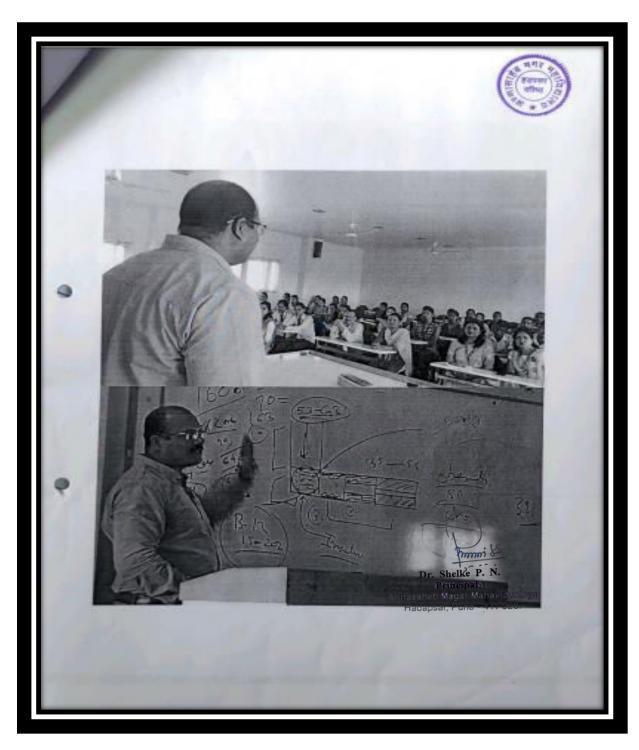


Criterion V 44 | P a g e

4. Nutrition Workshop By Gymkhana department 25/10/2021

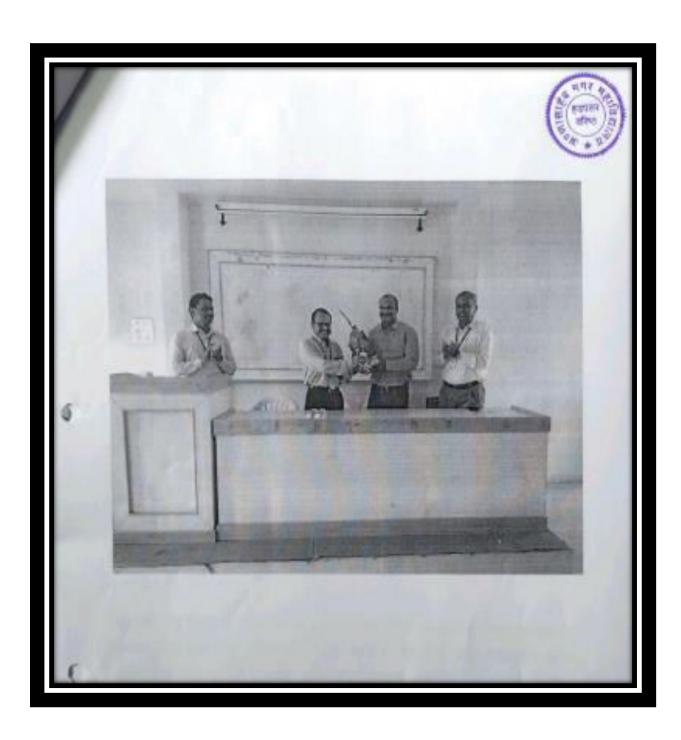
Criterion V 45 | P a g e

Nutrition Workshop Photos



Criterion V 46 | P a g e

Nutrition Workshop Photos



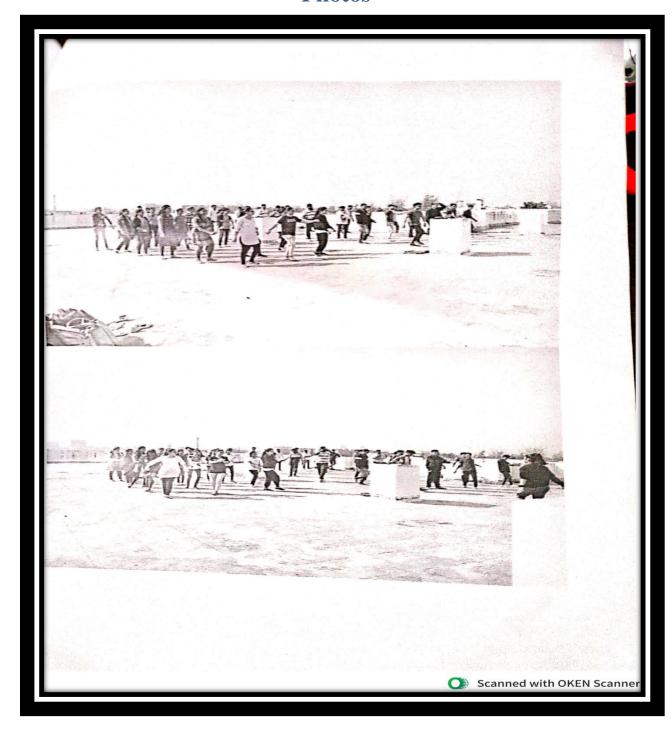
Criterion V 47 | P a g e

5. A Yoga Session By BBA Department 13/12/2021

Criterion V 48 | P a g e

A Yoga Session

Photos



Criterion V 49 | P a g e

6. Sanitary Napkins
Distribution Program
By

Commerce Department
(03/02/2022)

Criterion V 50 | P a g e

Sanitary Napkins Distribution Programme

Photos of Inaugral Function and Sanitary Napkins Distribution among students



Criterion V 51 | P a g e

7. Self- Defense Program By Commerce department 18/02/2022

Criterion V 52 | P a g e

Self-Defence Program

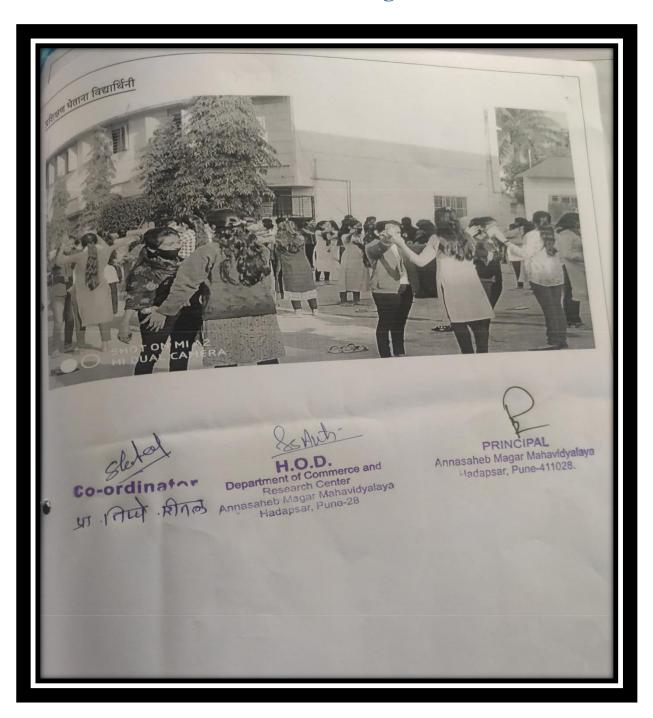
Photos of Students Learning Different skills



Criterion V 53 | P a g e

Self-Defence Program

Photos of Students Learning Different skills



Criterion V 54 | P a g e

8. Free Medical
Checkup Camp
By
Zoology Department
08/03/2022

Criterion V 55 | P a g e

Free Medical Checkup Camp

Photos of Inaugral Function ,Principal sir address,
Distribution of medicines, medical check up of staff and
students



Criterion V 56 | P a g e

9. World Water Day By Microbiology Department 22/03/2022

Criterion V 57 | P a g e

World Water Day Photos of Posters made by Students



Criterion V 58 | P a g e

World Water Day Photos of Posters made by Students



Criterion V 59 | P a g e

World Water Day

Photos of Inaugural Function



Criterion V 60 | P a g e

10. Free Health Checkup Center By Zoology Department 26/03/2022

Criterion V 61 | P a g e

Free Health Checkup Centre

Photos of check up done by Doctors on regular basis of students and Staff



Criterion V 62 | P a g e

11. A Lecture on 'Mi Kasa Ghadlo' (How I Evolved)

By

Microbiology Department 01/04/2022

Criterion V 63 | P a g e

A Lecture on 'Mi Kasa Ghadalo' (How I Evolved) Photo



हडपसर : व्याख्यानमालेचे उद्घाटन करताना सिटी कॉर्पोरेशनचे व्यवस्थापकीय संचालक अनिरुद्ध देशपांडे, समवेत अन्य मान्यवर.

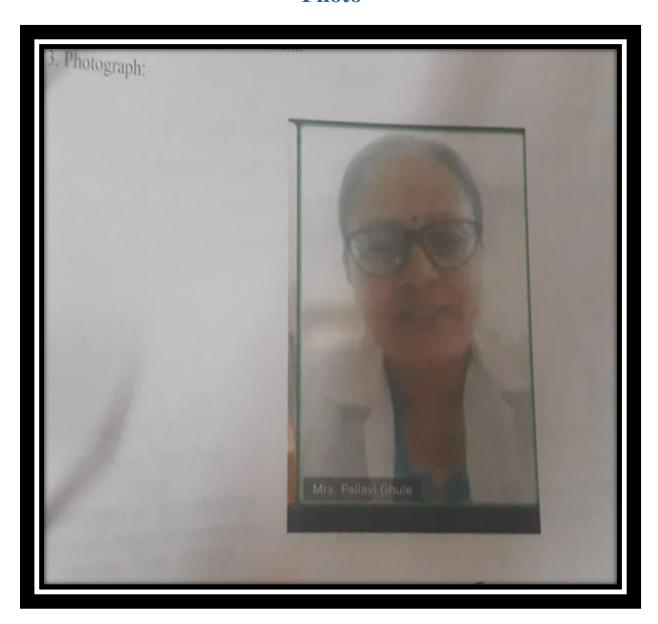
Criterion V 64 | P a g e

12. A lecture on 'The Value of Good Health' on World Health Day By

Microbiology Department 07/04/2022

Criterion V 65 | P a g e

A Lecture on 'Value of Good Health' on World Health Day Photo



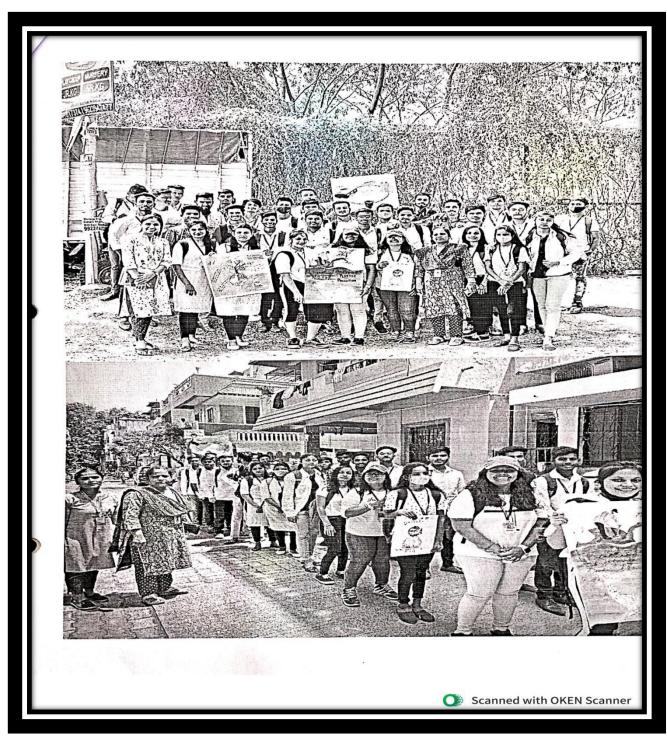
Criterion V 66 | P a g e

13. Awareness Rally on "Reduce Usage of Plastic"

By BBA Department 22/04/2022

Criterion V 67 | P a g e

Awareness Rally on 'Reduce Usage of Plastic' Photos



Criterion V 68 | P a g e

Awareness Rally on 'Reduce Usage of Plastic' Photos



Criterion V 69 | P a g e

Awareness Rally on 'Reduce Usage of Plastic' Photos



Criterion V 70 | P a g e

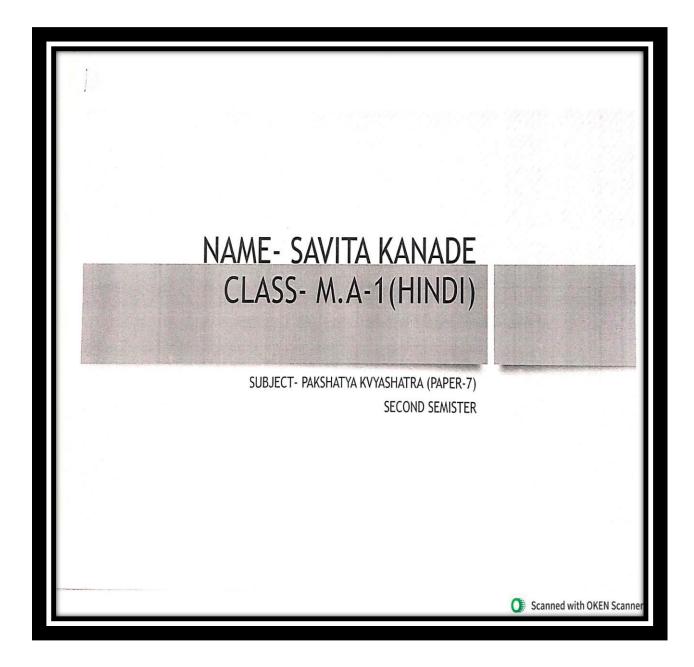
Awareness of Trends in Technology 2021 - 2022

Criterion V 71 | P a g e

1. How to Make PPT By Hindi Department 25/09/2021

Criterion V 72 | P a g e

Student's PPT 1



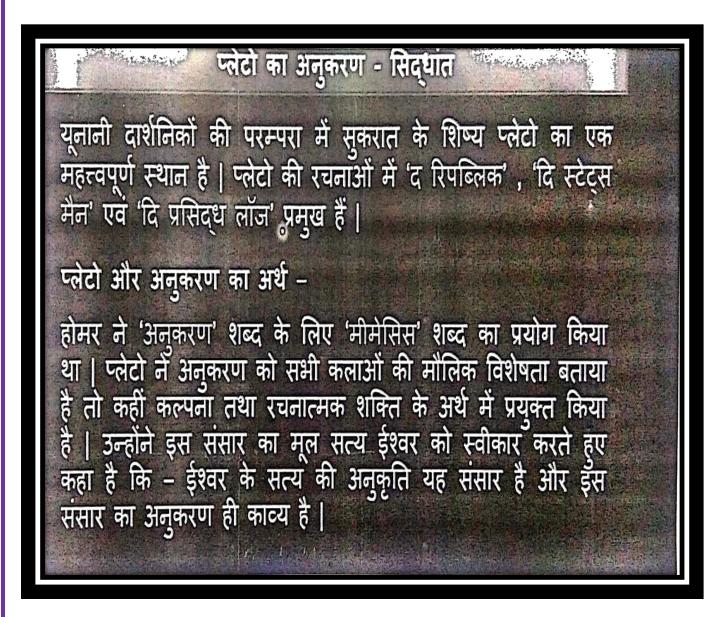
Criterion V 73 | P a g e

Student's PPT 1



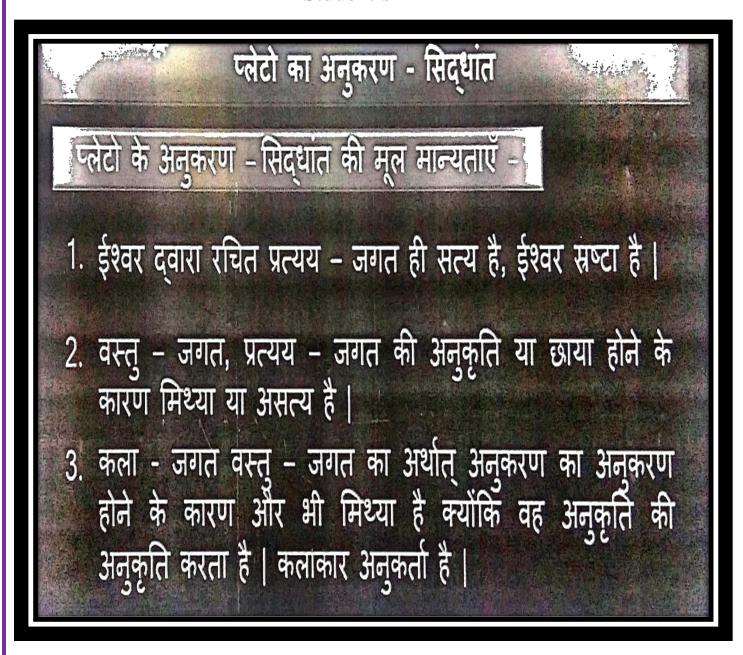
Criterion V 74 | P a g e

Student's PPT 1



Criterion V 75 | P a g e

Student's PPT 1



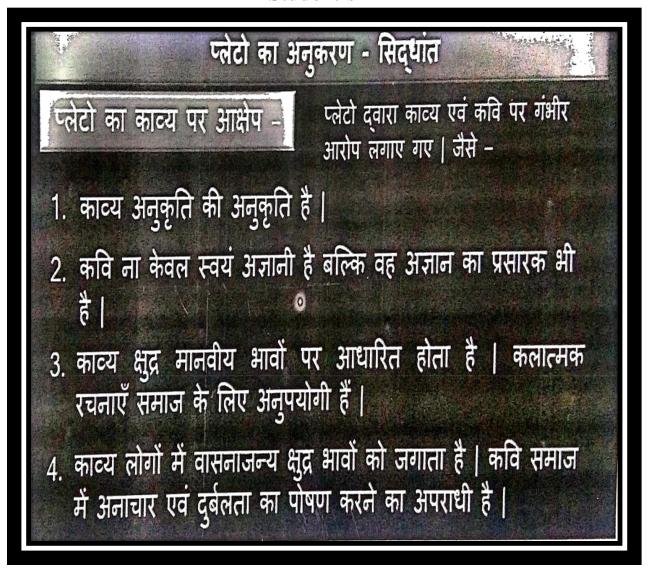
Criterion V 76 | P a g e

Student's PPT 1

प्लंटो का अनुकरण - सिद्धांत न्लेटो और अरस्तू के अनुकरण - सिद्धांत में अंतर			
1 प्लेटो ने 'अनुकरण' शब्द का अर्थ हू -ब -हू नकल बताया था	अरस्तू के अनुसार यह पुन: सृजन का पर्याय है		
2 कवि अनुकृति की अनुकृति करता है	कला प्रकृति और जीवन का पुन: प्रस्तुतिकरण है		
3 कवि को 'अनुकर्ता' बताया है	कवि को कर्ता सिद्ध किया है		
4 काट्यकला को नैतिक और आदर्शवादी दृष्टिकोण से देखा	सौंदर्यवादी दृष्टि से देखते हुए यह अतिपादित किया कि कला प्रकृति की अनुकृति है		

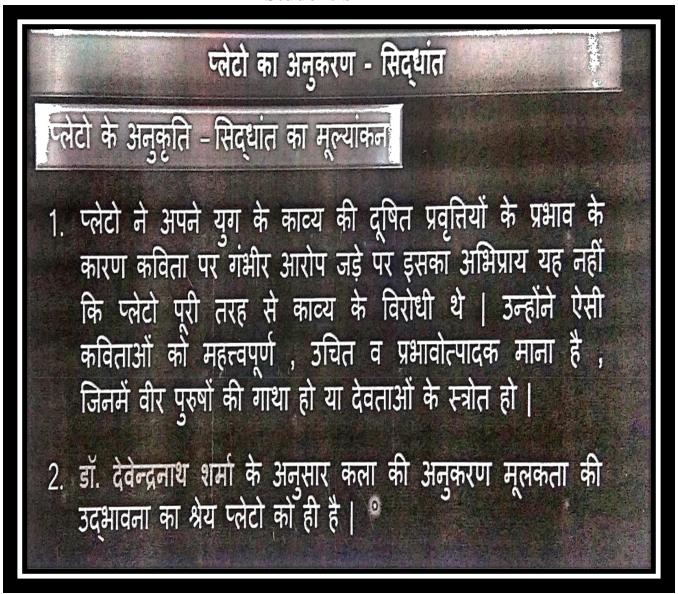
Criterion V 77 | P a g e

Student's PPT 1



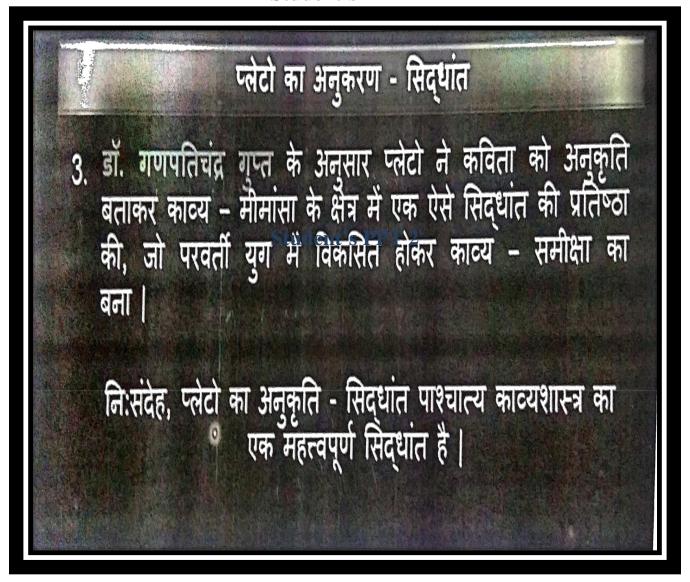
Criterion V 78 | P a g e

Student's PPT 1



Criterion V 79 | P a g e

Student's PPT 1

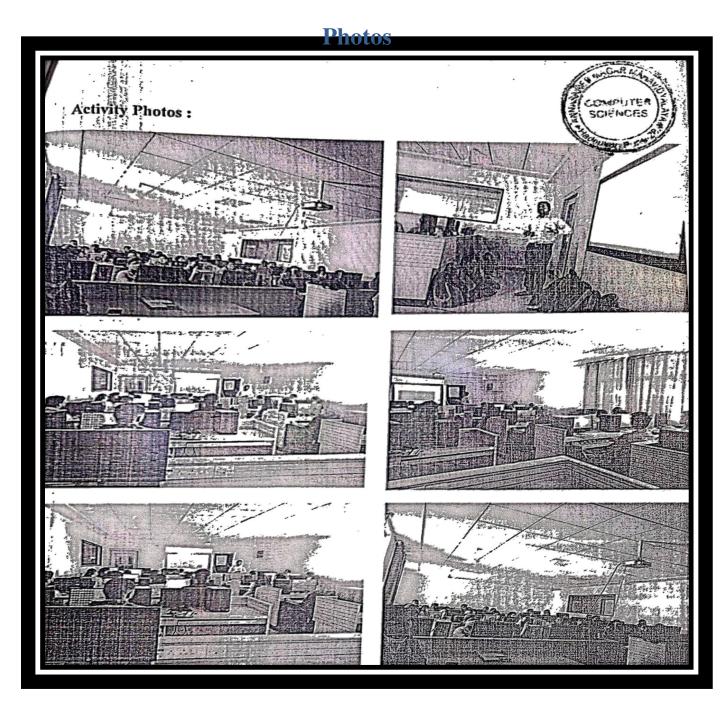


Criterion V 80 | P a g e

2. Guest Lecture on Web Framework By Computer Science Department

Criterion V 81 | P a g e

Guest Lecture on Web Framework



Criterion V 82 | P a g e

3. Guest Lecture on Cyber Security By Computer Science Department

Criterion V 83 | P a g e

Guest Lecture on Cyber Security Photos of Demo lecture Presented by Guest Mr. Akshya Raut



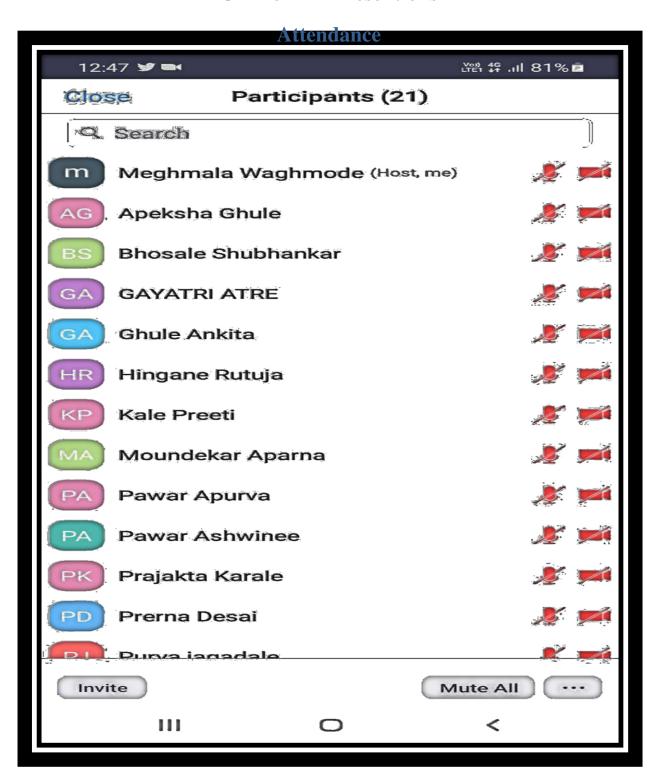
Criterion V 84 | P a g e

4. Online PPT Presentation by Students By

Microbiology Department 28/04/2022 and 19/05/2022

Criterion V 85 | P a g e

Online PPT Presentions



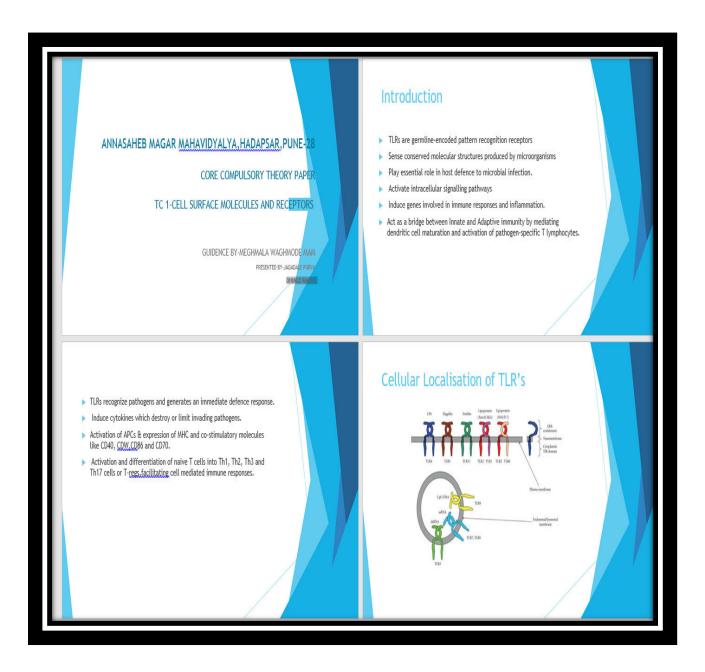
Criterion V 86 | P a g e

Student's Online PPT 1



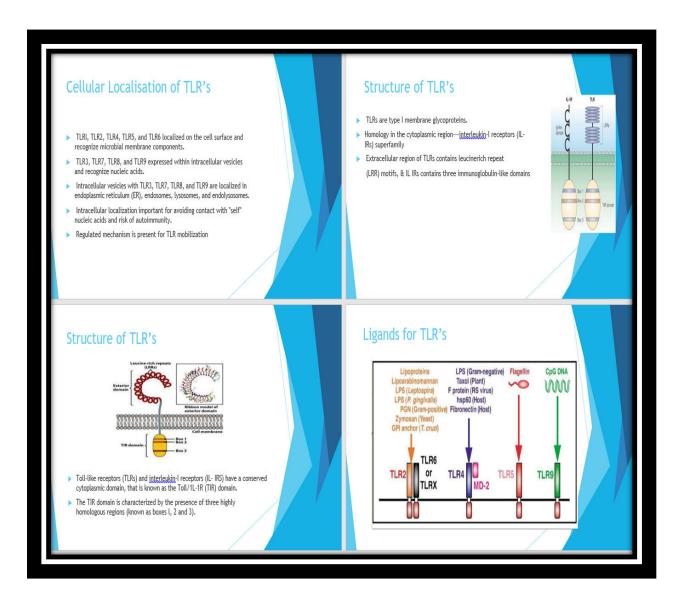
Criterion V 87 | P a g e

Student's Online PPT 1



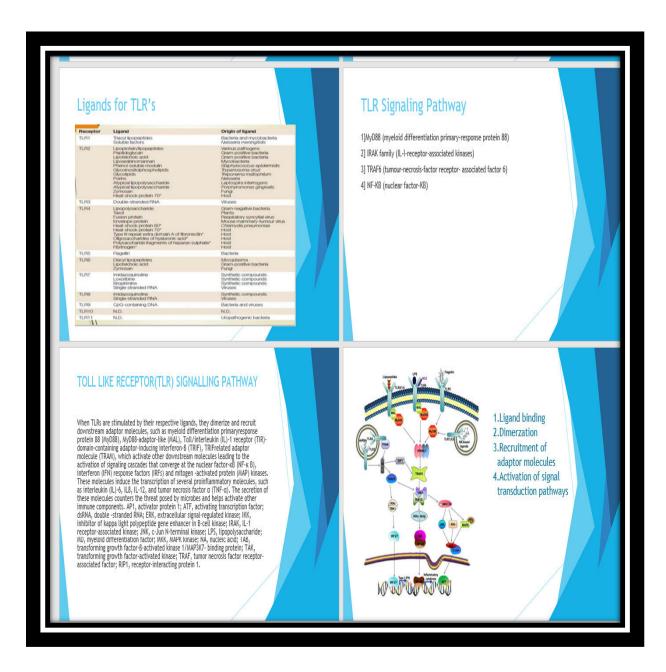
Criterion V 88 | P a g e

Student's Online PPT 1



Criterion V 89 | P a g e

Student's Online PPT 1



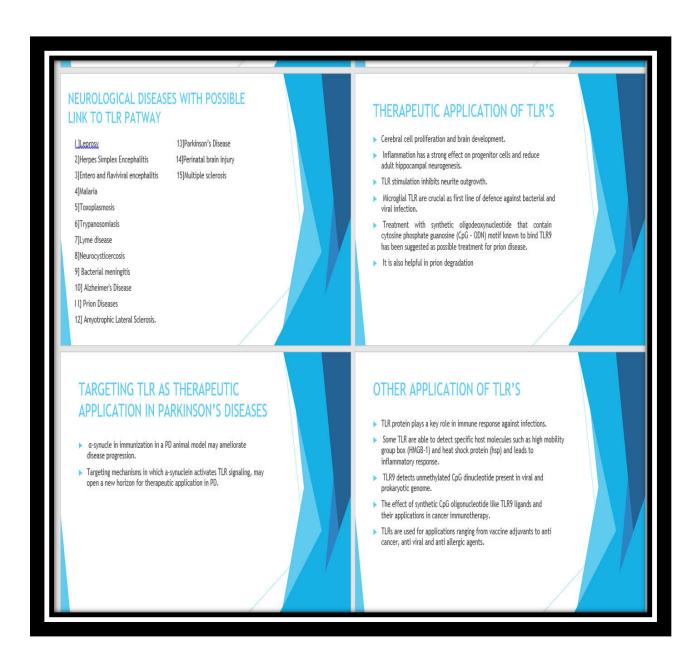
Criterion V 90 | P a g e

Student's Online PPT 1



Criterion V 91 | P a g e

Student's Online PPT 1



Criterion V 92 | P a g e

Student's Online PPT 1



Criterion V 93 | P a g e

Students PPT Presentation on Molecular Biology

Notice + Attendance



Annasaheb Magar College, Hadapsar, Pune-411028.

Department of Microbiology M.Sc.-I Microbiology Attendance 2021-22

Subject: Molecular Biology
Name of the teacher: Ms. Borade U.B
All M.Sc-I Students are here by informed that their Presentations will take on 29/04/2022.
Submission of Presentations should be done on the respective date and time only. No representation will be conducted.

Sr.No.	Name of the students	Name of the topic	sign
1.	Atole Sourav Mohan	Mosthern hybridization	comen.
2.	Bhalerao Rohit Rajesh	Hubridization by Northern Tech.	988
3.	Borkar Janhavi Avinash	protein Durification	(Corchicch
4.	Chaoudhari Pratiksha Maruti	colony Hybridization	
5.	Chavan Amit Chaban	TI & RI vectors	Amit
6.	Chavan Vaibhav Jayvant	phage display system	
7.	Choudhari Pranav Pandurang	Enzyme RE, methylase, lipasa	
8.	Dahatonde Puja Santosh	Nick translation & Random priming	100
9.	Dhole Sonali Ashok	plasmid , Backeniophage	Sanction.
10.	Dhumal Saurabh Manohar	construct at guranic DNAS CONA	no fragina
11.	Gaikwad Pratiksha Sambhaji	construct of gooding by a strong	Rarwood
12.	Gaikwad Rutuja C.	Hybridization technique	hiven
13.	Gaikwad Shivani Rajesh	southern, southwestern	Milder
14.	Garud Asmita Balasaheb	Radioachive snonredioachive	Thuly
15.	Ghule Harshada Sandeep	padroachive storical state	Rupta
16.	Gupta Priyanka Rambabu	fluorescence Hybridizato Tech.	Sterres
17.	Jadhav Athrava Maruti	Polynudestide kinascerzy	Carie
18.	Jadhav Karishma Dnyandeo	Palghade hat Miles Cong	6 1 3 2
19.	Jadhav Vaishnavi Navnath	construction of general to	Machan
20.	Jagtap Mangesh Mahesh	constructional genomic DNA radioactives non-radioactive pro	21 Alleghor
21.	Jagtap Tanavi Chandrakant	project Parsitication.	
22.	Jagtap Vaishnavi Bhanudas	Blunt end ligation	3 Javaraz
23.	Javalkar Akash Anil	Ti & Ri vector	3 goat
24.	Kadam Omkar Kishor	Nick translation & randomor	MILLIAND MAN
25.	Kadam Shweta Anil	protein tagging	Ohmtan
26.	Kalal Nikita Ashok	CONA Library	1.0
27.	Kale Vijayanand Shivram	phage display system	TO K
28.	Kamble Aniket Rajesh	DNA beliege Astay	Hinket
	Kamble Rutuja Sunil	One what will	Dombes
29.	Katkar Maithili Ganesh	western blotting	12
30.	Katkar Maitiin Gallesii		

Criterion V 94 | P a g e

Students PPT Presentation on Instrumentation and Biophysics

Notice + Attendance



Annasaheb Magar College, Hadapsar, Pune-411028.

Department of Microbiology M.Sc.-I Microbiology Attendance 2021-22

Notice

Subject: Instrumentation and biophysics Name of the teacher: Ms. Jagtap P.D

All M.Sc-I Students are here by informed that their Presentations will take on 19/05/2022. Submission of Presentations should be done on the respective date and time only. No representation will be conducted.

Sr.No.	Name of the students	Name of the topic	sign
1.	Atole Souray Mohan		AP. I
2.	Bhalerao Rohit Rajesh	gas Chromatography	71000
3.	Borkar Janhavi Avinash		an B
4.	Chaoudhari Pratiksha Maruti	Pulse Field get electrophoresis	Priorentini.
5.	Chavan Amit Chaban	(hromatog Pht	Want
6.	Chavan Vaibhav Jayvant	Fast protein liquid Chromate	
7.	Choudhari Pranay Pandurang	Van Deemter Equation	(Photodan)
8.	Dahatonde Puja Santosh	capillary electrophoresis	(D_
9.	Dhole Sonali Ashok	FITE and Application	Sonale.
10.	Dhumal Saurabh Manohar	pulse field electrophoresi	
11.	Gaikwad Pratiksha Sambhaji	Infrared Spatroscopy Cabsorph bind)	Gailcoad
12.	Gaikwad Rutuja C.	HPLC '	Rataoad
13.	Gaikwad Shivani Rajesh	sufercritical fluid chro.	Shiren (7
14.	Garud Asmita Balasaheb	Advantage & disadvantage of FTIR	Rosevel
15.	Ghule Harshada Sandeep	mass spectroscopy.	Amle
16.	Gupta Priyanka Rambabu	Pulse field gel electrophoresis	Rueta
17.	Jadhav Athrava Maruti	partition coefficient	Strawa
18.	Jadhav Karishma Dnyandeo	Infragred Spect-roscopystrumn	Cantel _
19.	Jadhav Vaishnavi Navnath	Infrared Spectroscopy	Vaishnavi
20.	Jagtap Mangesh Mahesh	Initiation and Mass spectroscope	
21.	Jagtan Tanavi Chandrakant	Ton fragmentation.	Elithonis Grantel
22.	Jagtap Vaishnavi Bhanudas		2 Taralkar
23.	Javalkar Akash Anil	thromutografing A resolution	CORES
24.	Kadam Omkar Kishor	with Himation	Atadan?
25.	Kadam Shweta Anil	GC-ms	
26.	Kalal Nikita Ashok	immung electrophoresis	Mika:
27.	Kale Vijayanand Shivram	Reverse phase chro.	
28.	Kamble Aniket Rajesh	van deemter equation	Mamble
29.	Kamble Rutuja Sunil	Supercritical fluid chromodograph	
30.	Katkar Maithili Ganesh	Interpretato of chromato	
30.		0	

Criterion V 95 | P a g e

Sample of Student's PPT 1



Criterion V 96 | P a g e

Student's PPT 1

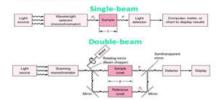
UV Visible Spectroscopy

The Principle of UV-Visible Spectroscopy is based on the absorption of ultraviolet light or visible light by chemical compounds, which results in the production of distinct spectra.

When matter absorbs ultraviolet radiation, the electrons present in it undergo excitation. This causes them to jump from a ground state (an energy state with a relatively small amount of energy associated with it) to an excited state (an energy state with a relatively large amount of energy associated with it).

Instrumentation of UV Visible Spectrophotometer

The Spectrophotometer



Fluorescence Spectroscopy

Fluorescence spectroscopy (also known as fluorimetry or spectrofluorometry) is a type of electromagnetic spectroscopy that analyzes fluorescence from a sample.

It involves using a beam of light, usually ultraviolet light, that excites the electrons in molecules of certain compounds and causes them to emit light, typically, but not necessarily, visible light.

Quantum Yield

The quantum yield of a system (such as a fluorescent molecule) is determined by the balance between the radiative and non-radiative transition rates within it.

number of photons emitted

Beer Lambert Law

When a beam of monochromatic light is made incident on a solution that contains a substance that absorbs the monochromatic light, the rate at which the intensity of the beam decreases along the thickness of the solution is directly proportional to the concentration of the absorbing substance in the solution and is also directly proportional to the intensity of the incident monochromatic radiation.

As per the Beer-Lambert law, the greater the number of absorbing molecules (that have the ability to absorb light of a specific wavelength), the greater the extent of absorption of the radiation.

Application of UV Visible Spectroscopy

- In different fields, such as astronomy, molecular bjgloggy, chemistry and biochemistry, spectrophotometers are commonly used. Specification applications include measuring the concentration of substances such as protein, DNA or RNA, bacterial cell formation, and enzymatic reactions.
- UV spectrophotometers measure the visible regions of ultraviolet light and can provide valuable information, as well as detect any impurities, about the levels of active ingredients present in pharmaceutical compounds.
- A common technique for quantitative analysis of analytes in QA / QC, analytical research and government regulatory laboratories is UV-Visible spectrophotometry.

Fluorescence resonance energy transfer (FRET)

Fluorescence resonance energy transfer (FRET) is a mechanism describing energy transfer between two light-sensitive molecules (chromophores).

A donor chromophore, initially in its electronic excited state, may transfer energy to an acceptor chromophore through nonradiative dipole-dipole coupling.

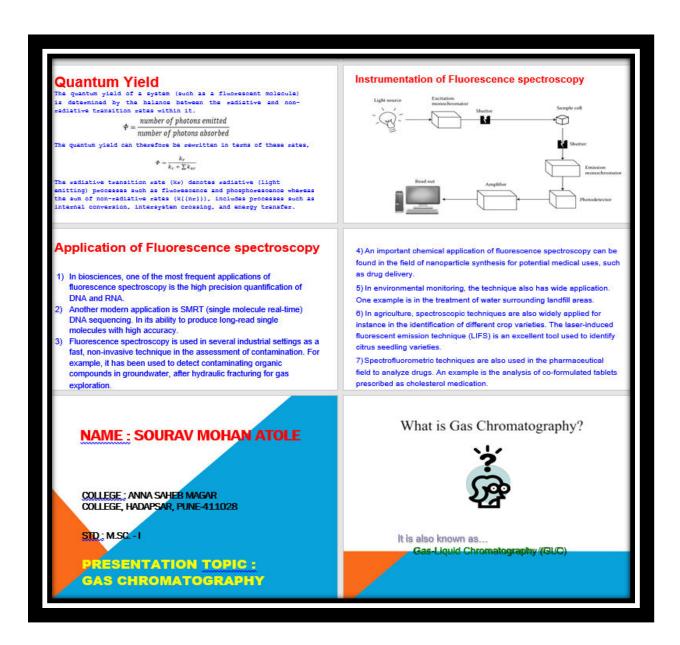
The efficiency of this energy transfer is inversely proportional to the sixth power of the distance between donor and acceptor, making FRET extremely sensitive to small changes in distance.

Instrumentation of Fluorescence spectroscopy



Criterion V 97 | P a g e

Student's PPT 1



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GAS CHROMATOGRAPHY

Separation of gaseous & volatile substances

Simple & efficient in regard to separation

GC consists of GSC (gas solid chromatography)
GLC (gas liquid chromatography

 $Gas \to M.P$

Solid / Liquid \rightarrow S.P

GSC not used because of limited no. of

S.P GSC principle is

ADSORPTION GLC

principle is PARTITION

a. <u>GSC</u>: Mobile phase – gas

Stationary phase - solid

In GSC, when a carrier gas containing analytes is passed through a column containing solid Stationary phase, the analytes get adsorbed on to the solid Stationary phase & the separation is due to differences in their adsorptive behavior.

b. GLC: Mobile phase – gas

Stationary phase - liquid

In GLC, when a carrier gas containing analytes is passed through a column containing liquid Stationary phase, the analytes get distributed themselves between the liquid Stationary phase & the carrier gas phase according to their partition coefficients.

In GLC, Stationary phase is liquid that is retained/coated on the surface of an inert solid by adsorption or chemical bonding.

GAS CHROMATOGRAPHY

- Gas chromatography (GC) is a widely used technique for separation & analysis of gaseous & volatile substances which are difficult to separate & analyze.
- In performing gas chromatographic separation, the sample is vaporized & injected onto the head of a chromatographic column.
- Elution is brought about by the flow of an inert gaseous mobile phase.
- In GC gas as a moving phase is passed through a column containing solid adsorbent or liquid adsorbent. Thus adsorption or partition is possible.
- Based on stationary phase used in column, G.C is of 2 types;
- a. Gas solid chromatography (GSC) b.

Gas liquid chromatography (GLC).

Criterion V 99 | P a g e