

V.V.VANNIAPERUMAL COLLEGE FOR WOMEN

(Belonging to Virudhunagar Hindu Nadars)

An Autonomous Institution Affiliated to Madurai Kamaraj University

Re-accredited with 'A' Grade (3rd cycle) by NAAC

VIRUDHUNAGAR – 626 001 (TAMIL NADU)



DBT STAR COLLEGE SCHEME

Department of Biotechnology,
Government of India, New Delhi

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FACULTY DEVELOPMENT PROGRAMME

DEPARTMENT OF PHYSICS

REC Senthilvelan Murugaian is presenting

Faculty Development Programme... X

People (52) Chat

SYSTEM OF EQUATIONS

Example 4:

x & y Dependent variables

$$\frac{dx}{dt} = 5x + 3y$$

$$\frac{dy}{dt} = 2x - 7y$$

t independent variable

Name: Two coupled 1st order equation / System of 1st order equations

Example 5:

$$\frac{dx}{dt} = 5x + 3y + 4z$$

$$\frac{dy}{dt} = 2x - 7y - 13z$$

$$\frac{dz}{dt} = x + y + 4z$$

Senthilvelan M... Vasantha Mall...
 Revathy Shankar Malathi N Assi...
 Rathnamala J... Dhivya Bharath...
 PRIYANKA M P... Noorul Rashith...
 SATHISHKOMAR,K.M Arbh...

Sakthi Abiram R
 Sankareswari M Assista...
 Saranya C (DO.062001)
 SATHISHKOMAR,K.M An...
 Senthilvelan Murugaian
 Senthilvelan Murugaian Presentation
 Shanmuga Priya G Assi...
 Star College Scheme V...
 Star College Scheme V...

REC Senthilvelan Murugaian is presenting

Faculty Development Programme... X

People (47) Chat

Differential Equation (DE)

Linear ODE

The dependent variable (y) and its derivatives (y', y'', \dots) appear linearly

Nonlinear ODE

The dependent variable (y) and its derivatives (y', y'', \dots) appear in powers or in products

Example 1:

$$2\left(\frac{dy}{dx}\right)^2 + x\frac{dy}{dx} - y = 0$$

derivative has powers

Example 2:

$$\frac{d^2y}{dx^2} + y^3 = 0$$

dependent variable has powers

Example 3:

$$\frac{d^2y}{dx^2} + y\frac{dy}{dx} + y = 0$$

Senthilvelan M... Sugapriya M A...
 Noorul Rashith... Malathi N Assi...
 Rathnamala J... Karmani P Ass...
 PRIYANKA M P... Dhivya Bharath...
 SATHISHKOMAR,K.M Arbh...

Add people Host controls

IN CALL

Star College Sche... (You)
 Aarthys
 AISHWARIYA K PG PHYS...
 Anitha smmc
 Anitha Assistant Profe...
 Azhagu ParvathLA Asso...
 Anitha

Faculty Development Programme on "Differential Equations and its Applications" from 14.12.2020 to 16.12.2020

DEPARTMENT OF CHEMISTRY

The screenshot shows a Google Meet interface. The main content is a presentation slide with the following text:

Simple vs. Multiple Regression

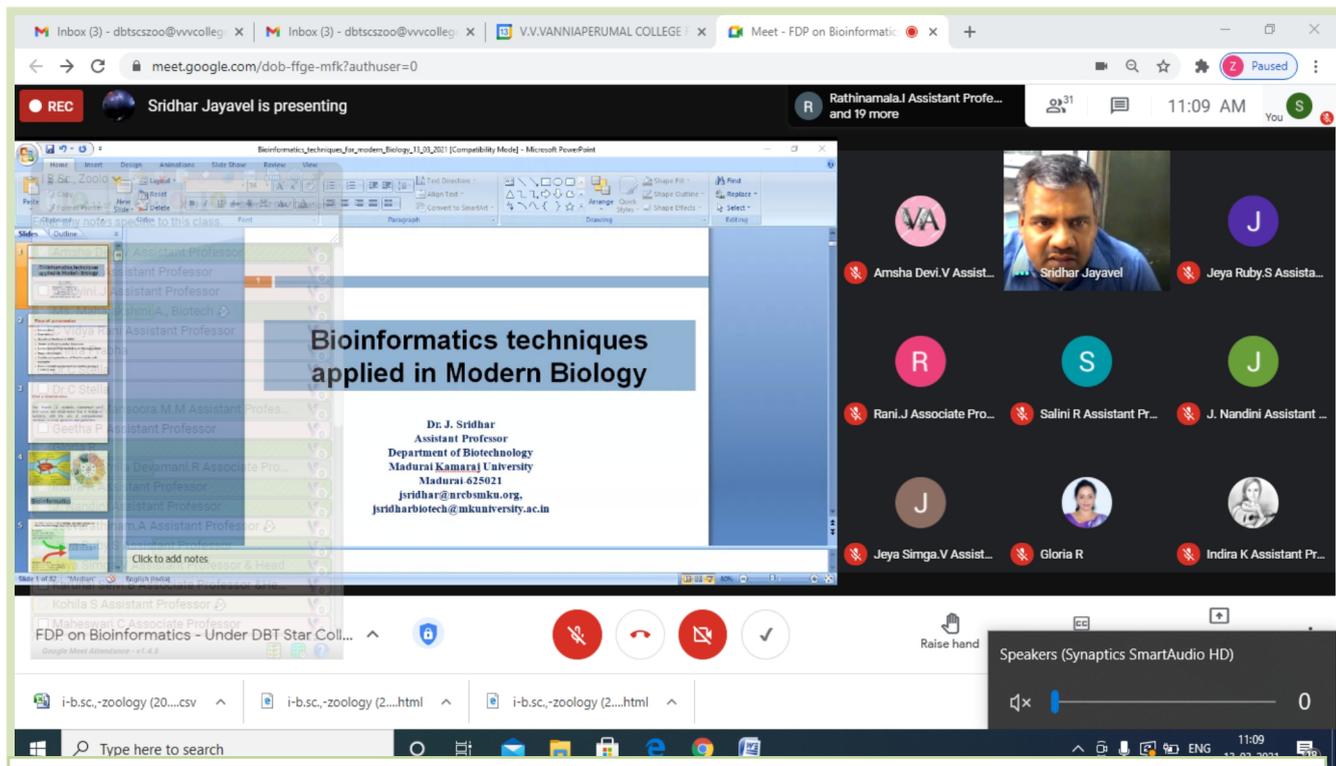
- One dependent variable Y predicted from one independent variable X
- One regression coefficient
- r^2 : proportion of variation in dependent variable Y predictable from X

- One dependent variable Y predicted from a set of independent variables (X_1, X_2, \dots, X_k)
- One regression coefficient for each independent variable
- R^2 : proportion of variation in dependent variable Y predictable by set of independent variables (X 's)

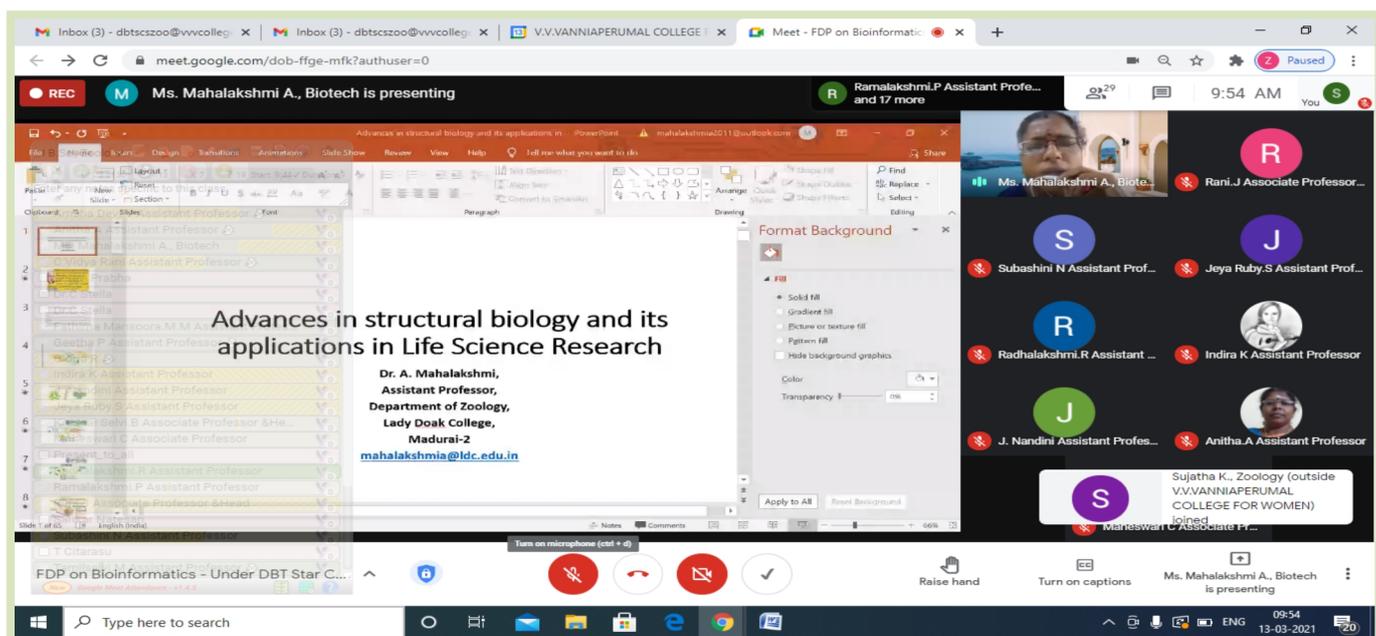
The meeting interface includes a 'Meeting details' sidebar on the right with a list of 25 participants, a 'People (25)' header, and a 'Chat' icon. At the bottom, there are controls for 'Raise hand', 'Turn on captions', and 'chitra economics is presenting'.

FDP on "Applications of SPSS Software Tools Part I and Part II" on 09.03.2021 to 10.03.2021.

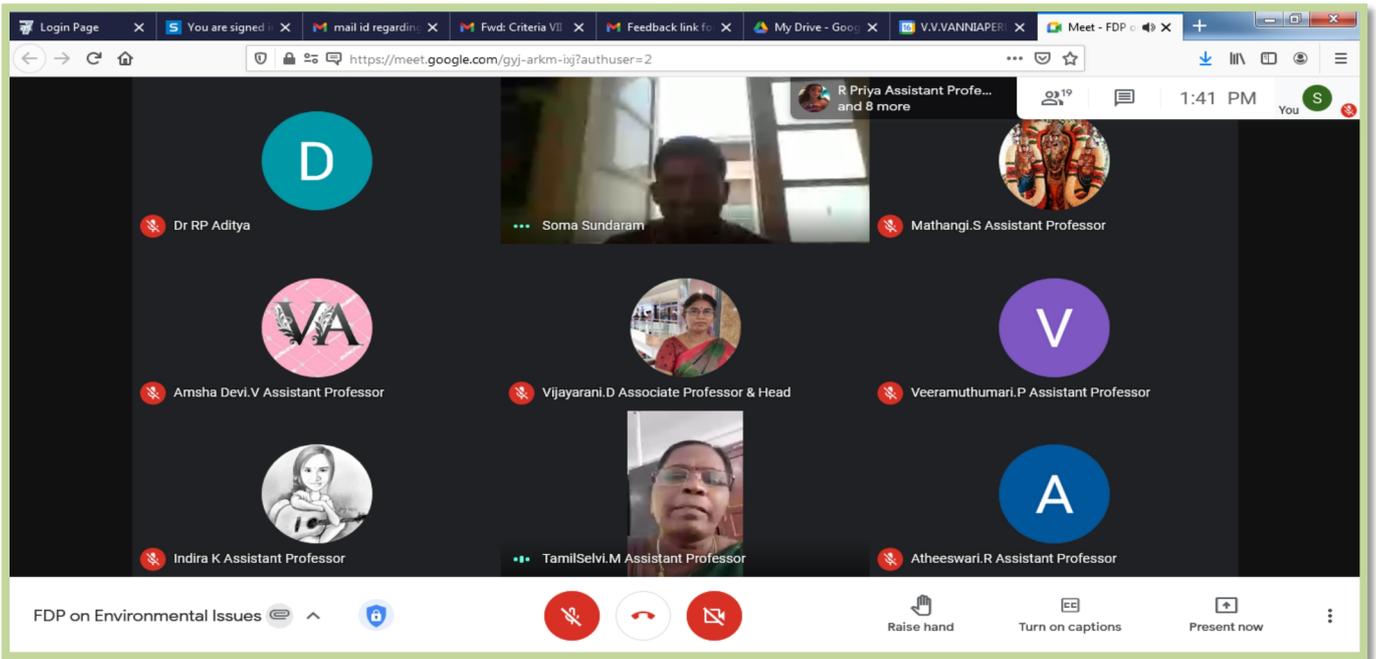
DEPARTMENT OF ZOOLOGY



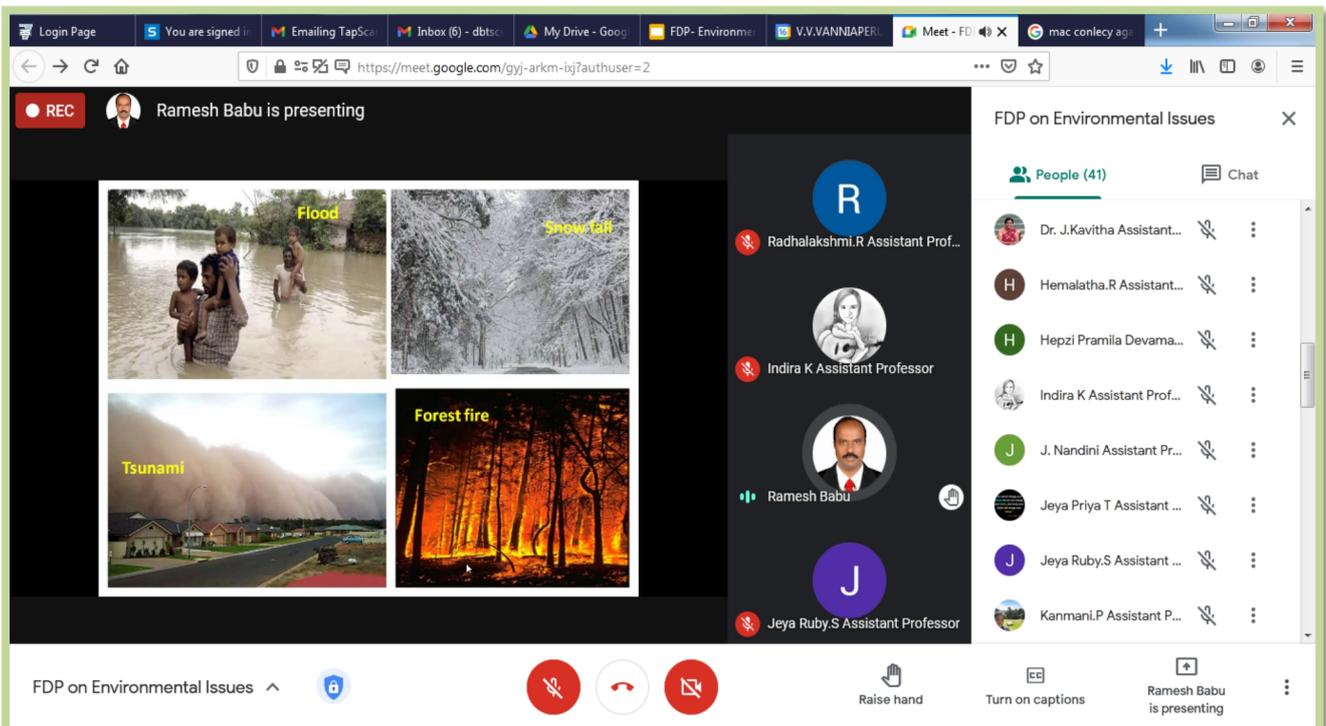
FDP on "Bioinformatics Techniques Applied in Modern Biology" on 13.03.2021.



FDP on "Advances in Structural Biology and its Applications in Life Science Research" on 13.03.2021.



FDP on "Green Audit for Educational Institutions" on 16.03.2021.



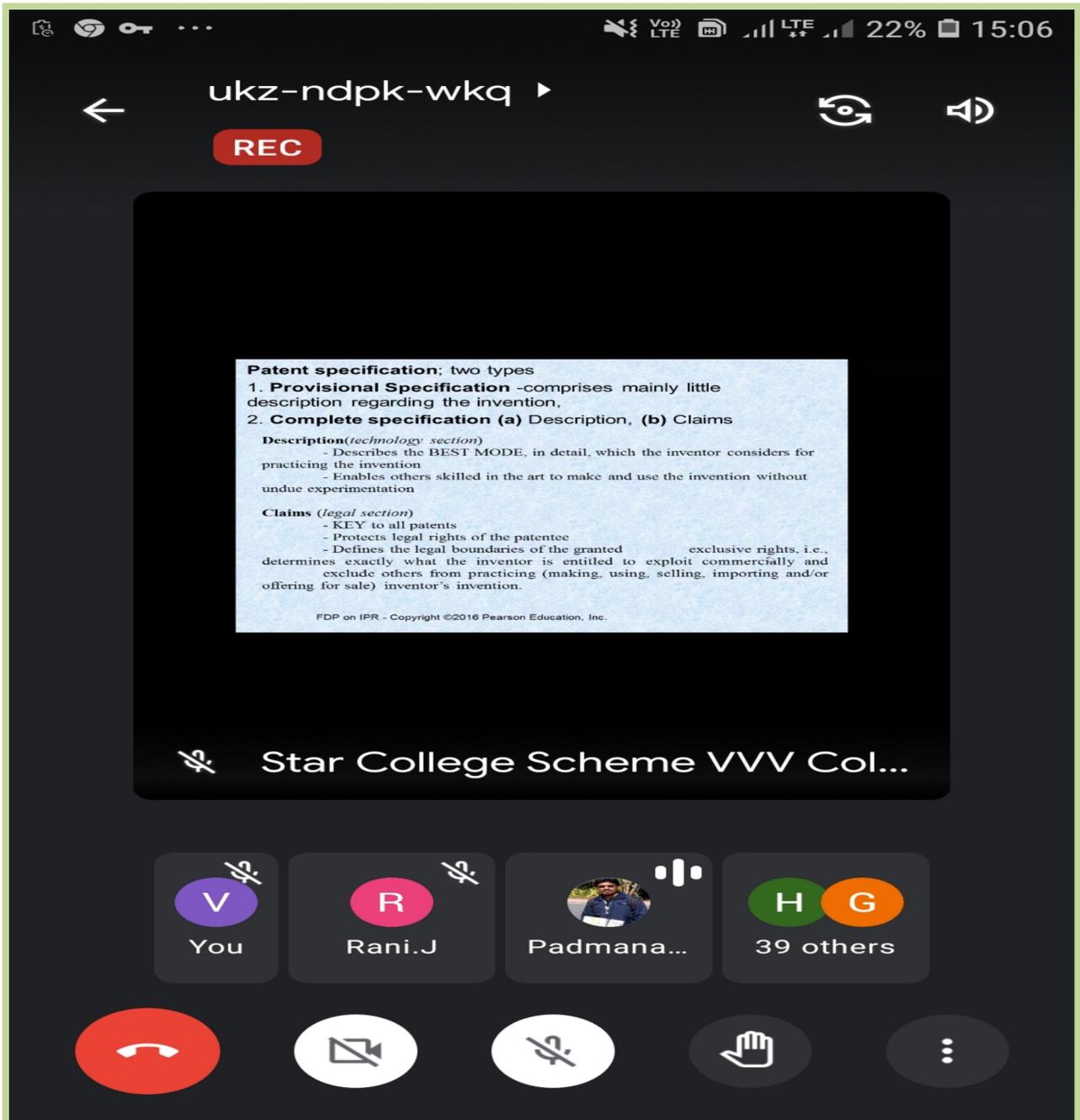
FDP on "Current Scenario in Environmental Engineering and Science" on 16.03.2021

The screenshot shows a Google Drive interface with a video player. The video player is displaying a presentation slide titled "Probiotics vs. Prebiotics". The slide is divided into two columns: "Probiotics" and "Prebiotics".

Probiotics	Prebiotics
<ul style="list-style-type: none">- Live bacteria and yeasts in digestive system, yogurt and dairy products- Provide healthy environment in digestive tract to aid digestion- Inhibit harmful bacteria, boost immune system and increase resistance to infection	<ul style="list-style-type: none">- Specific type of plant fiber, a non-digestible carbohydrate- Food source for healthy bacteria to grow and thrive- Helps reduce inflammation, and risk of bowel disease- Enhance uptake of vitamins and minerals- Reduce risk of infection and bowel disease and better balance hormones

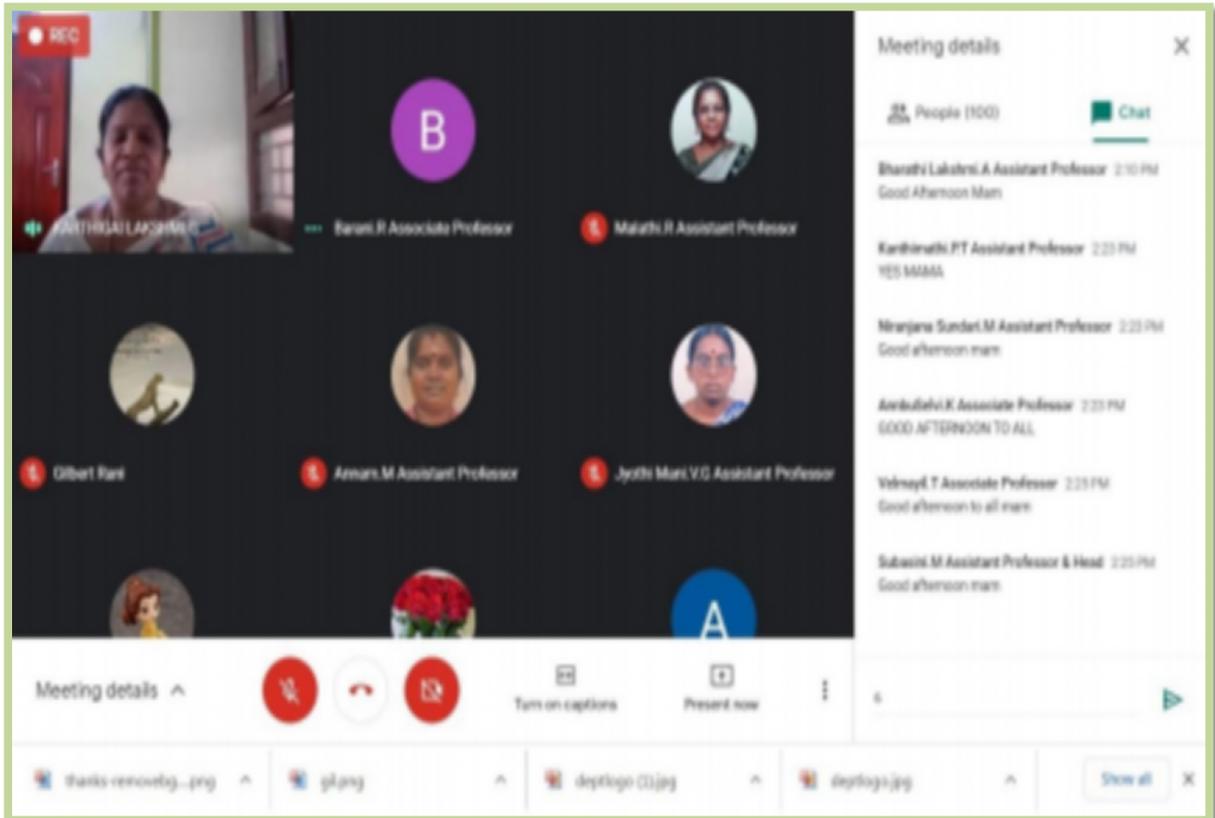
The video player interface includes a progress bar at the bottom showing 58:00 / 1:16:05, and icons for play, volume, closed captions, settings, and full screen. The background of the slide features a green, textured pattern resembling plant fibers or bacteria.

FDP on "Microbes as Biopreservatives" on 18.03.2021.



FDP on "Intellectual Property Rights(IPR)" on 18.03.2021.

DEPARTMENT OF COMPUTER SCIENCE



FDP on “Interactive E-Teaching, Learning and Assessment Tools in Cyberspace” on 19.10.2020.

DEPARTMENT OF BOTANY & DEPARTMENT OF BIOTECHNOLOGY

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FDP on "Herbal Medicines in Pharmaceutical Industry" on 12.03.2021 organized by the Department of Botany .

ASST PROF, BIOTECH VEL Tech, Chennai is presenting

Microbial production of 1,3-PDO

S. No	Items	Description
1.	Product	1,3- Propandiol (1,3-PDO)
2.	Applications	<ul style="list-style-type: none"> Polytrimethylene terephthalate (PTT) Polyurethane (PU) Cosmetics, personal care, and cleaning products Others (engine coolants, food & flavors, pharmaceutical & dietary supplement, de-icing fluids, heat transfer fluids, e-liquids and unsaturated polyester resins)
3.	Production method	Microbial fermentation
4.	Substrate	Crude glycerol
5.	Host organism	<i>Klebsiella pneumonia</i> or <i>Klebsiella oxytoca</i>

FDP on "Metabolic Engineering- A Road Map towards Industrial Biotechnology" on 12.03.2021.

DEPARTMENT OF BIOCHEMISTRY

meet.google.com/hin-upeq-oxe?pli=1&authuser=7

REC Mani Balan is presenting Rathinamala.J Assistant Profe... and 26 more 38 2:50 PM

Drug Discovery Process

Cellular & Genetic Targets	Synthesis & Isolation	Library Development	Drug Affinity & Selectivity	Animal Models of Disease States	Clinical Trials & Therapeutics
Genomics	Combinatorial Chemistry	Structure Activity Studies	Cellular Disease Models	Behavioural Studies	
Proteomics	Assay Development	In Silico Screening	Mechanism of Action	Functional Imaging	
Bioinformatics	High-throughput Screening	Chemical Synthesis	Lead Candidate Refinement	Ex Vivo Studies	
Target Selection	Lead Discovery	Medicinal Chemistry	In Vitro Studies	In Vivo Studies	

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Biochemistry-DBT-FDP

Mani Balan is presenting

FDP on "Bioinformatics-Drug Designing and Docking" on 27.02.2021.