



GOVERNMENT SCIENCE COLLEGE

Sector – 15, Gandhinagar-382016

Principal

Dr. Mahendra G. Bhatt

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Tel. (O) : 079-23222352

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Supporting Documents of Teaching Learning Process

Name of Faculty: Dr. P.U. Sharma (Physics)

Online lecture through MS teams

B. Sc. Semester : I : Physics Practical
Experiment : Melde's Experiment

Aim : To prove $P/L = \text{constant}$ for constant tension T by Melde's experiment.
Apparatus : Melde's Apparatus of Tuning Fork, Thin string, Pulley, Stand, Light weight Pan, Weight Box, Rubber Hammer, Meter Scale

Figure :

Position : A : Longitudinal Arrangement Position : B : Transverse Arrangement

Observation :

- (1) Mass of the pan = $m_0 = \dots\dots\dots$ gram
- (2) Mass put in the pan $m_1 = \dots\dots\dots$ gram
- (3) Total Mass $M = m_0 + m_1 = \dots\dots\dots$ gram
- (4) Constant Tension applied to the string $T = M.g = \dots\dots\dots$ dyne

Position : A : Longitudinal Arrangement Position : B : Transverse Arrangement

Observation :

- (1) Mass of the pan = $m_0 = \dots\dots\dots$ gram
- (2) Mass put in the pan $m_1 = \dots\dots\dots$ gram
- (3) Total Mass $M = m_0 + m_1 = \dots\dots\dots$ gram
- (4) Constant Tension applied to the string $T = M.g = \dots\dots\dots$ dyne
- (5) Mass per unit length of string $m = \dots\dots\dots$ gram/cm

Observation Table :

Position of Tuning Fork	Number of Loops P	Observations for the length of the string			Average Length $L = \frac{L_1 + L_2 + L_3}{3}$ cm	$\frac{P}{L}$	Average $\frac{P}{L}$
		L_1 cm	L_2 cm	L_3 cm			
Position A (Longitudinal Arrangement)	2						
	3						
	4						
Position B (Transverse Arrangement)	4						
	6						
	8						

Calculation :



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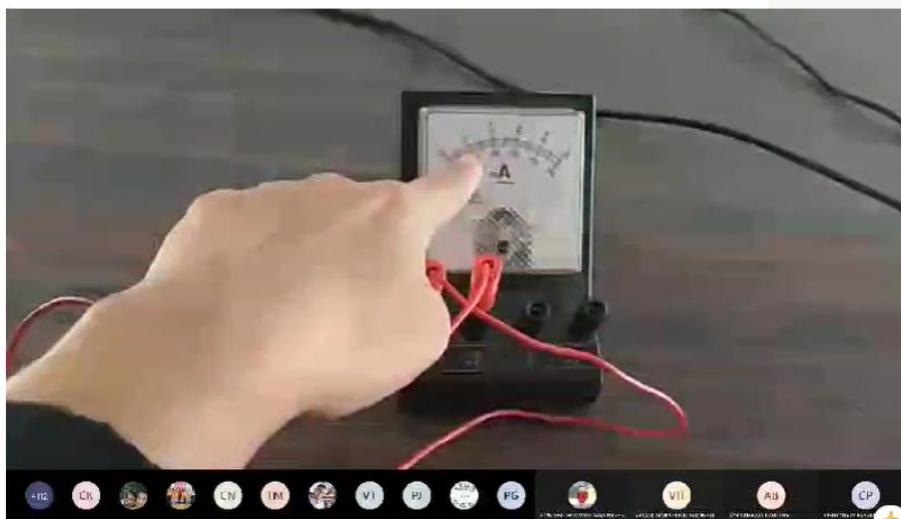
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Physics Department
Invited Talk on Particle Accelerator By
Dr. Sarvesh Kashyap


Date: 13th October 2022

Venue: Theatre no: 26, Physics Department, Government Science College, Gandhinagar

Beneficiaries: Faculties of physics department and Students-148.

Introduction: Dr. Sarvesh Kashyap, a distinguished scientist with experience at both the Inter University Accelerator Centre (IUAC) in New-Delhi and the European Organization for Nuclear Research (CERN) in Geneva, Switzerland delivered an enlightening talk on the advancements in particle accelerators. The talk was attended by a diverse audience comprising researchers, students, and enthusiasts eager to delve into the intricacies of particle physics.




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Workshop on Particle Accelerators

Dr. SARVESH KASHYAP

Scientist,
Inter-University Accelerator Centre (IUAC), New-Delhi
India

Scientific Associate,
CERN, GENEVA, Switzerland

Time: 13th October 2022
Time: 2.00 p.m

Elements of Accelerator

- Ion source to produce ions
- Electrostatic tubes for acceleration
- Bending Magnet for bending
- Steerer Magnets for steering
- Quadrupoles for focusing
- Faraday cup to measure beam current
- BPM for continuous monitoring
- Vacuum Pumps for vacuum in beam pipe

Beam Parameters:

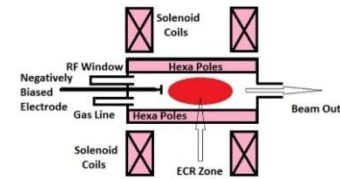
Beam Size and Divergence X,Y'	mm, mrad
Emitance ($\epsilon_x, \epsilon_y, \epsilon_z$)	π mm mrad
Mass, Charge	π deg-keV
Max. Magnetic Rigidity	amu, number
Initial Energy (E)	Tm
Ion Types	MeV/u
Beam Current	Ions
Energy Spread	microamperes to nanoamperes
Phase Spread	keV
	Deg.

Charged Particle Accelerators: an Introduction

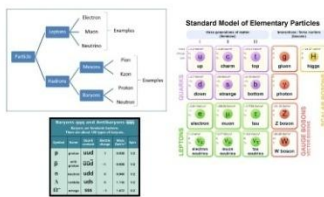
Dr. Sarvesh Kumar
Scientist and CERN Associate
Inter-University Accelerator Centre, New Delhi
CERN, Geneva, Switzerland
Email: sariuac@gmail.com

Inter University Accelerator Centre
(An Inter University Research Facility of UGC)
New Delhi, Website: www.iuac.res.in

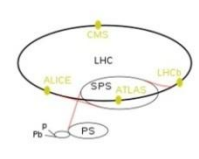
ECR ion sources



World of Elementary Particle



CERN: Large Hadron Collider

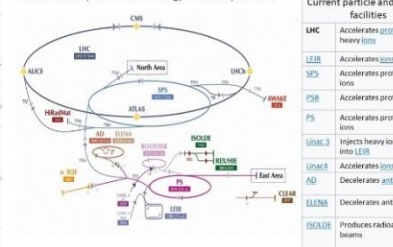


In the Large Hadron Collider (LHC) – the last element in this chain – particle beams are accelerated up to the record energy of 6.5 TeV per beam.

ATLAS	A toroidal LHC Apparatus
CMS	Compact Muon Solenoid
LHCb	LHC beauty
Alice	A Large Ion Collider Experiment
SDSM	Total Cross Section, Elastic Scattering and Diffraction Dissociation
LHCf	LHC forward
MEDAL	Monopole and dipoles Detector At LHC
NSD	Neutron and Neutrino Detector
SPS	Super Proton Synchrotron
p and Pb	Linear accelerators for protons (A) and lead (Linac 3)
(not marked)	Proton Synchrotron Booster
PS	Proton Synchrotron
SPS	Super Proton Synchrotron

CERN: Large Hadron Collider

In the Large Hadron Collider (LHC) – the last element in this chain – particle beams are accelerated up to the record energy of 6.5 TeV per beam.



LHC	Accelerates and collides heavy ions
LEP	Accelerates electrons
SPS	Accelerates protons
PSB	Accelerates protons
PS	Accelerates protons
Linac 3	Injects heavy ions into LHC
Linac 4	Accelerates ions
AD	Decelerates antiprotons
ILLUS	Decelerates antiprotons
ISOLDE	Produces radioactive beams



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Name of Faculty: Dr. M.G. Patel (Zoology)

Online lecture through MS teams

→ સ્વલક્ષ્યાર્થી દ્વારા આપણે તેને સ્વલક્ષ્યો

→ નરમાં મધ્યમ કદના 2322 વાયુ તથા ખાંધાયુક્ત શિશ્ન શાવલો છે.
ઉદા. અગર. - Chordates

→ સામાન્ય ઉદા

અવકાશ ક્રમવ્યવ	કુઆલારા	દાર-ગરબી	લર્મી રડિ
કેમ્બીયોલિસ	દામલો	સાચટીઆવ	

★ વર્ગ- પિણ્ગ - Aves

- પક્ષીઓ, પાંજા-પાંખા ધરાવતા કિપાદ પ્રાણીઓ
- સ્વભ્યાસની શાખા. સ્વોલિયોલોજી.
- ઉડ્ડયન, સંગીત પાંજા, મધુર સ્વર, સ્વપાંતરણ.

→ શરીર શીર્ષ, ગીવા, દાડ, પૂચ્છનાં વિભાજન.

ગીવા ભાગે અને ભયમીડ (ફિચાપલ) - પૂંછડી ફૂંટી-ફૂંટી.

→ ઉપાંગો બે પ્રકાર - શ્વાસ - પાંખોમાં શ્વાસર.

પચ્ચક્રાંગ - વિવિધ કલ્પો - આર નવોચ્છેત શ્વાંગળા.

ત્રણ શ્વાંગળા શ્વાંગળા અને કોટ પાંજા. નર



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*** वर्ग :- अस्तवः :- Mammalia.**

- मातृ प्राणी जिन्याने अस्तवगुण हाडा पीठिका आणि तिची अस्तव.
- शरीर - बाल, छळ, उपा, धड, पुच्छ. - चार भागां
द्विपदगुण समस्तना, त्रिगुणस्तरी, हेलकाळी.
- तालयदंडात गुंडीप. - अक्षयगुण्य धुलपन्ना यरावे.
वाला, डंडी- लोडा, नवरि, नम, मदी, शिंगडा पंगी
- लयाणी प्रथिी गुंडीप. - तेलगुण, मरुवहगुण,
अगुणगुण, स्तवगुण.
- शतः दंडात - अक्षयगुण. - पीपरी लो पुष्पकपाला डंडुकी ह्यावे
मस्तकपट्टी मारी.
- हजिडकाया पीसल आचो लो डंडुकी डंडुकी हाय कडायल
उपा हजिडकाया - 7
- पायनगां - दिडलाल, गुणहर - गुणहर, अमलयायलका अमल
अमलयायल पायनगुण ह्यावे - लालगुण, गुणगुण, यकुल, ह्याकुण्ड
- हांत विपभहणी, हांतकियावा मडामां आवे - लो वेणल




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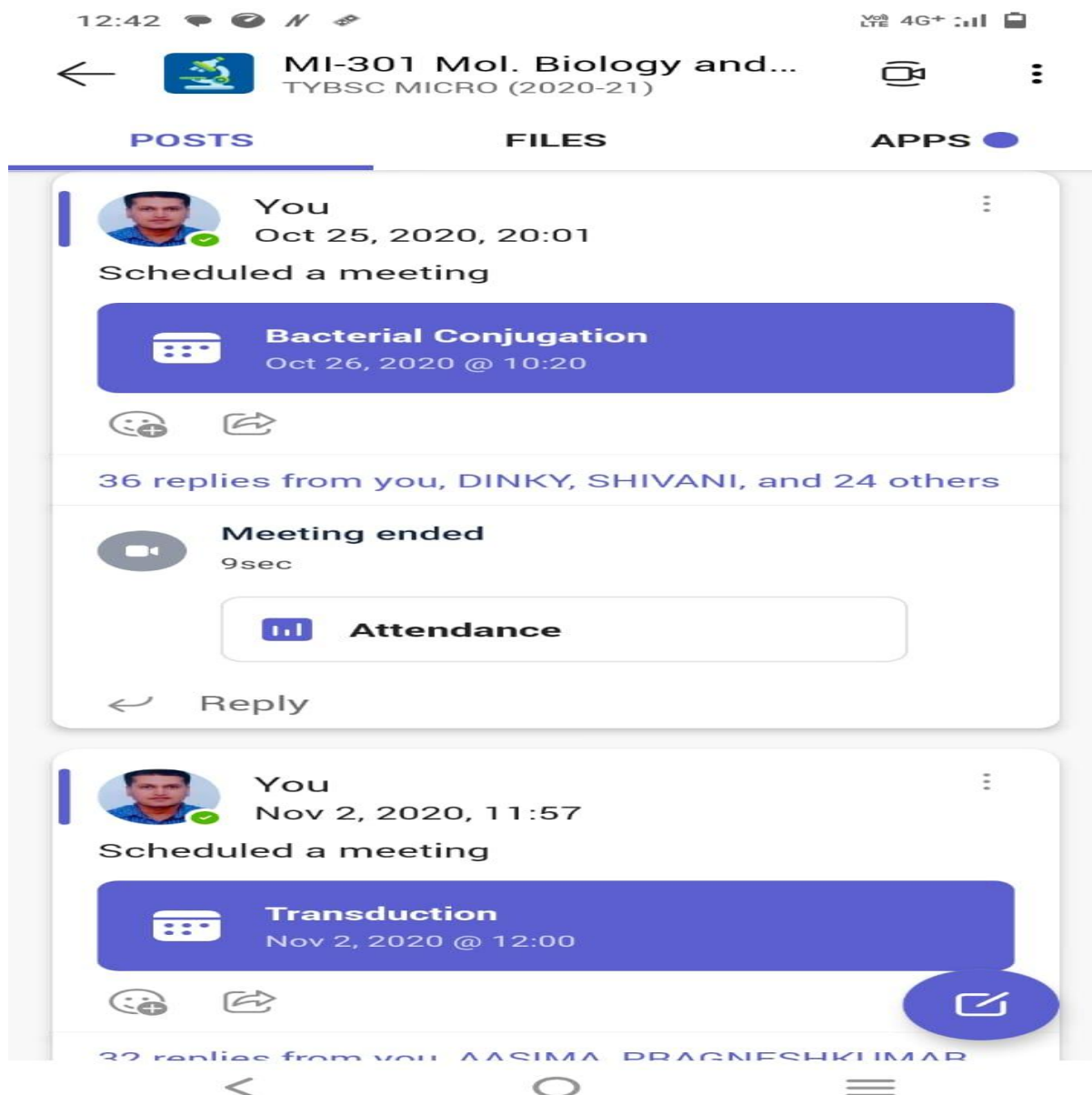
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Name of Faculty: Dr. C. C. Ambasana (Microbiology)

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Teams



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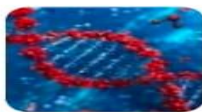
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SEM I MICROBIOLOGY 2021-22
AREFA BAAKZA, CHETAN AMBASANA, Dharm...



Sem IV Assignments and Tests
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CHETAN AMBASANA



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C. C. Ambasana Sir (Microbiology Dept.)



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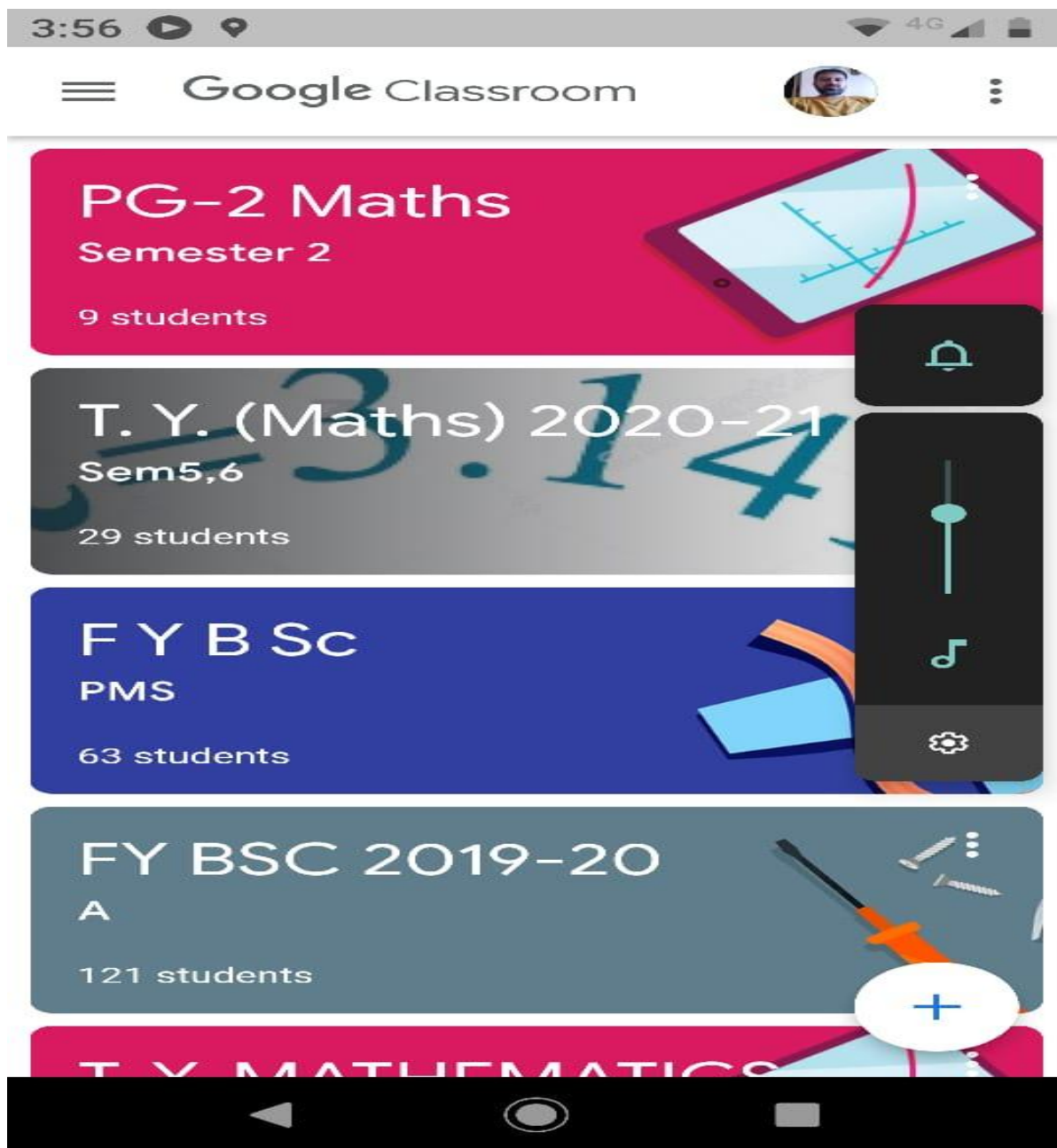
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Online lecture through Google classroom

Name of Faculty: Dr. Bhavin Patel (Mathematics)




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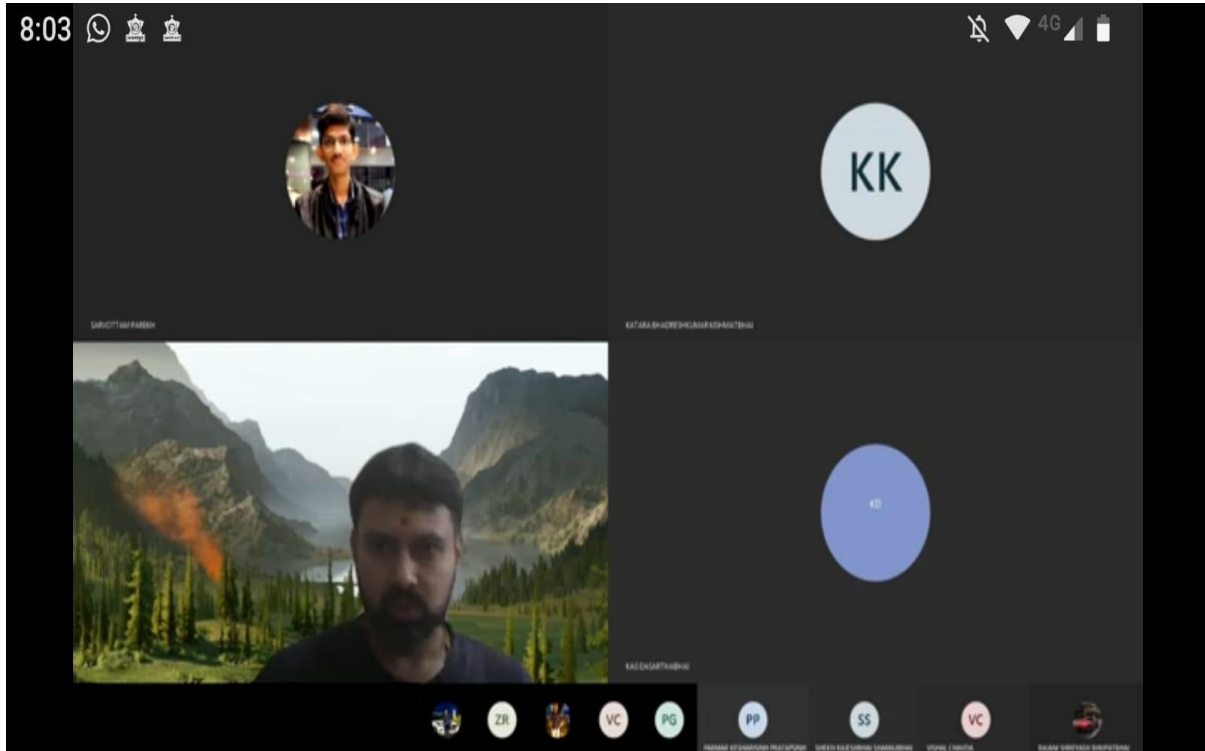
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B. M. Patel Sir (Mathematics Dept.)




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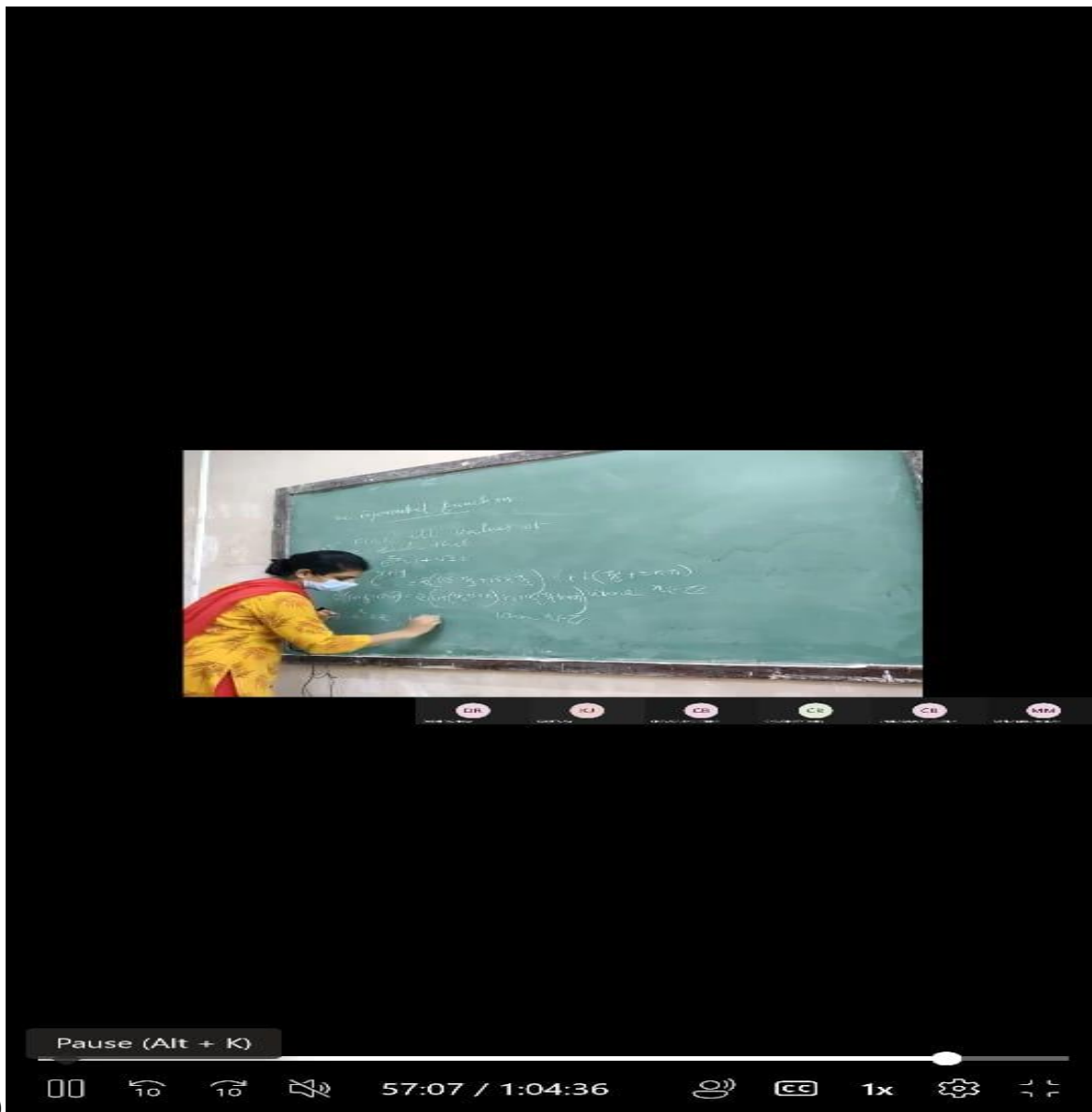
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Name of Faculty: Dr. Meena Mulchandani (Mathematics)




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The video content shows a lecture on exponential functions. The chalkboard contains the following text:

Exponential Functions

① $e^0 = 1$

② Power Rule

$(\exp(x))^n = \exp(nx)$

③ $\exp(x+y) = \exp(x) \cdot \exp(y)$

$\exp(x) = (\exp(x))^1$

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31:15 / 1:04:36

1x



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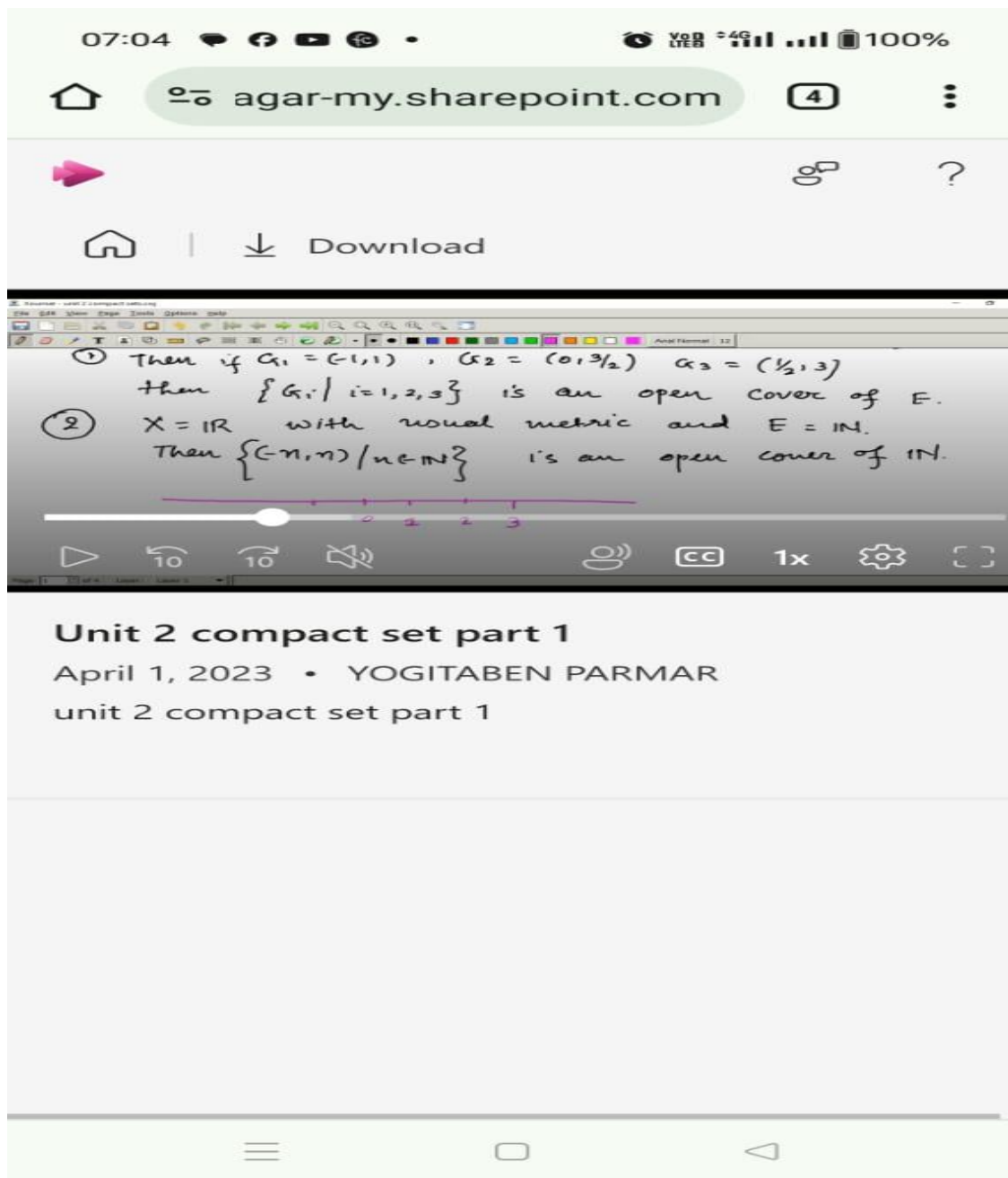
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Online lecture through Google classroom

Name of Faculty: Dr. Yogita Parmar (Mathematics)



Yogita Parmar
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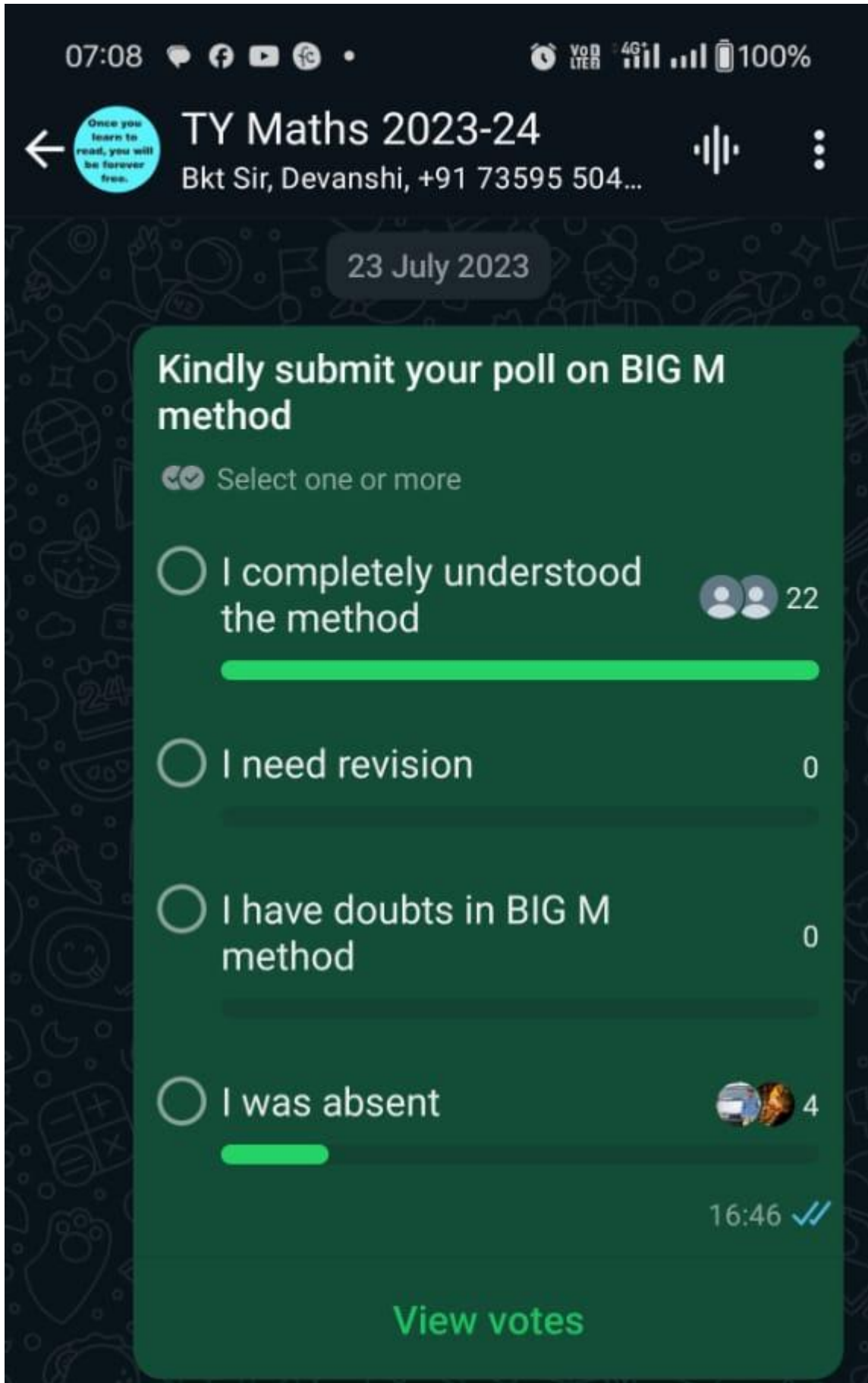
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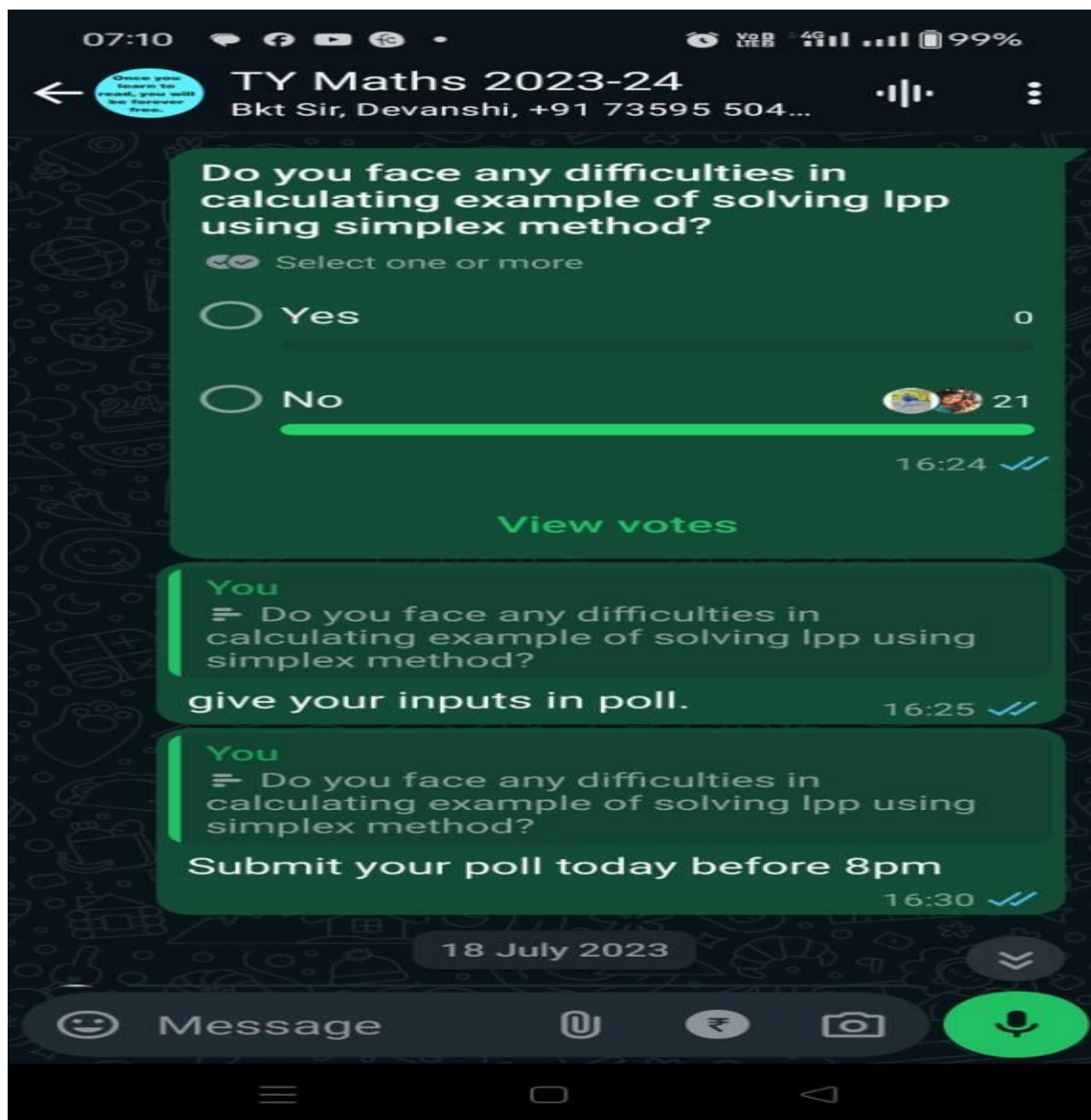
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Students' feedback by whats app poll

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