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	Criterion- 2	T, L & E
	KI 2.3	M 2.3.1

Technology-Enhanced Teaching Learning Methods

2.3.1	Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experience and teachers use ICT-enabled tools including online resources for effective teaching learning process)
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Abstract for Documentary Evidence

Details	Documentary Evidence	Page Number	View Document
Technology-Enhanced Teaching Learning Methods	Virtual Labs developed by Faculty Member for Enhanced Teaching Learning	2	
	Videos developed by Faculty members for Enhanced Teaching Learning	12	
	Certificates of NPTEL- SWAYAM of students for Technology Enhanced Learning	27	
	Power Point Presentations developed by Faculty members	64	

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1. Virtual Labs developed by Faculty Member for Enhanced Teaching Learning

Faculty members at Atmiya University have developed innovative virtual labs to enhance teaching and learning. These labs provide interactive, practical learning experiences, bridging the gap between theory and application while ensuring flexibility and resource efficiency. This initiative underscores the university's commitment to educational excellence and technological advancement.




**ATMIYA
UNIVERSITY**
सुहृदं सर्वभूतानाम्

VIRTUAL LAB ON

Preparation of Murashige and Skoog growth medium

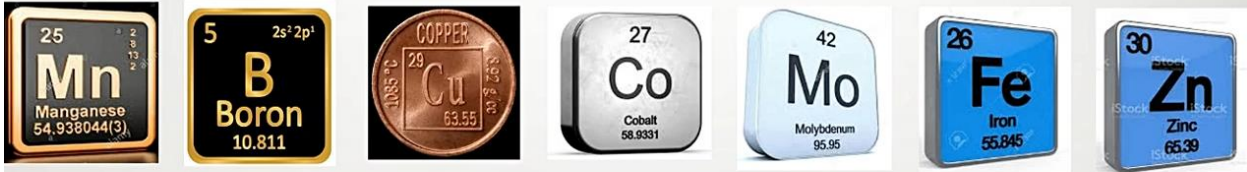
Dr. Preetam Joshi
Assistant Professor
Department of Biotechnology
Atmiya University
Rajkot (India)

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Micronutrients

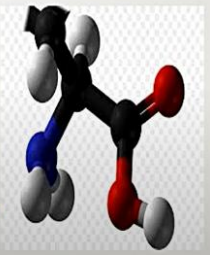



The essential micronutrients for plant cell and tissue growth include




Sugars, Amino acids and other nitrogen supplements

- Carbon Souce** { • Sucrose
- Vitamins** { • Thiamin, Nicotinic acid Pyridoxine
- Undefined Organic Supplements** { • Protein hydrolysates, coconut milk, malt extracts, banana, orange juice, and tomato juice and Activated Charcoal
- Amino Acids** { • Glycine, glutamine, asparagine, arginine, cysteine and tyrosine



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Solidifying agents and Plant Growth regulators

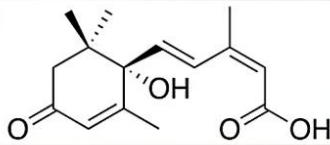


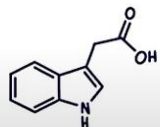
Solidifying Agents

- Agar

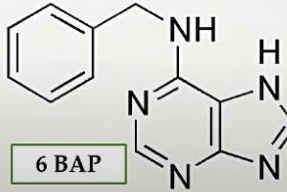
Growth Regulators

- Auxins, Cytokinin, Gibberellins, NAA, and abscisic acid.

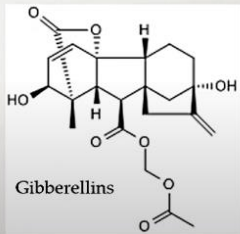




IAA



6 BAP




Gibberellins

Requirements

Glassware / Plasticware / **Chemicals** / Equipment

- Auxin Stock Solution
- Cytokinine Stock solution
- pH buffer solution
- Chemical Sterilizers (HgCl₂ and NaOCl)




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Determination of Calcium Gluconate by EDTA Method

Ragini Raghav, Ph.D.

Department of Biotechnology, Atmiya University, Rajkot,
Gujarat

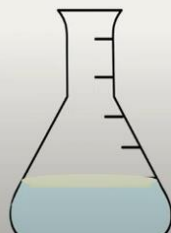
Requirements

Glassware / Plasticware / **Chemicals** / Equipment

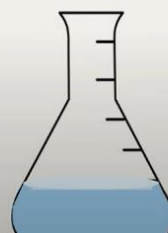
0.05 M
Ethylenediaminetetraacetic acid
(EDTA)



0.05 M Magnesium
sulphate(MgSO₄)




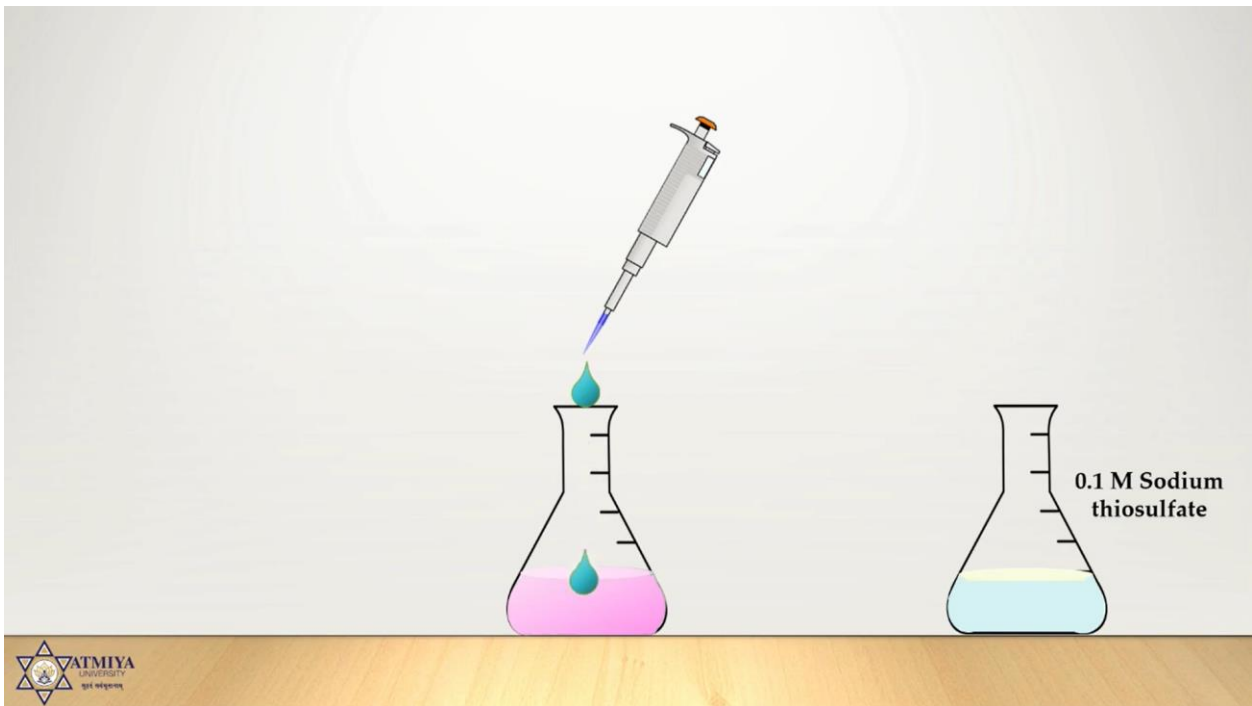
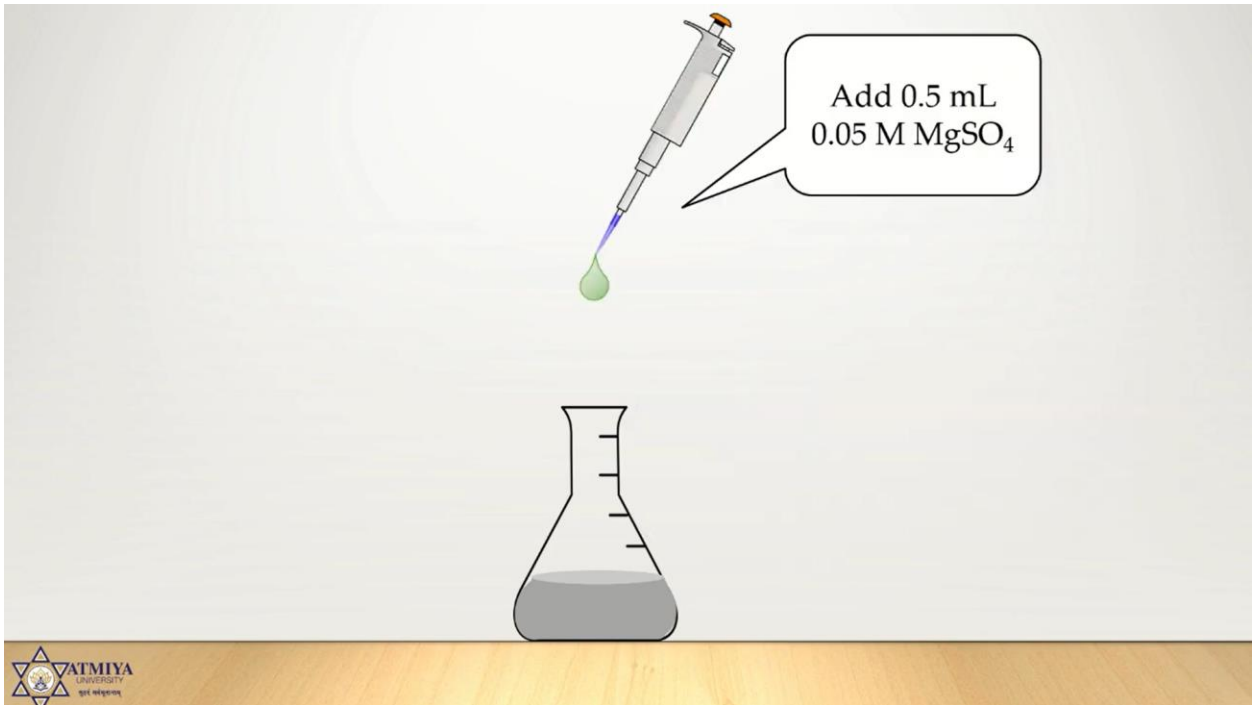
Ammoniacal Ammonium Chloride
74.6 g NH₄Cl in 740 mL strong
Ammonia (NH₃)
and make up volume to 1 L




Eriochrome Black T-
Sodium chloride
(EBT-NaCl) Mixture
(0.2:100)



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Determination of Alcohol Content by Dichromate Oxidation followed by Redox Titration

Ragini Raghav, Ph.D.
 Department of Biotechnology, Atmiya University, Rajkot,
 Gujarat




Determination of Alcohol Content by Dichromate Oxidation followed by Redox Titration


Requirements

Glassware / Plasticware / **Chemicals** / Equipment


1gm $K_2Cr_2O_7$ in 450 mL conc. H_2SO_4
Oxidized $K_2Cr_2O_7$




25% Potassium Iodide




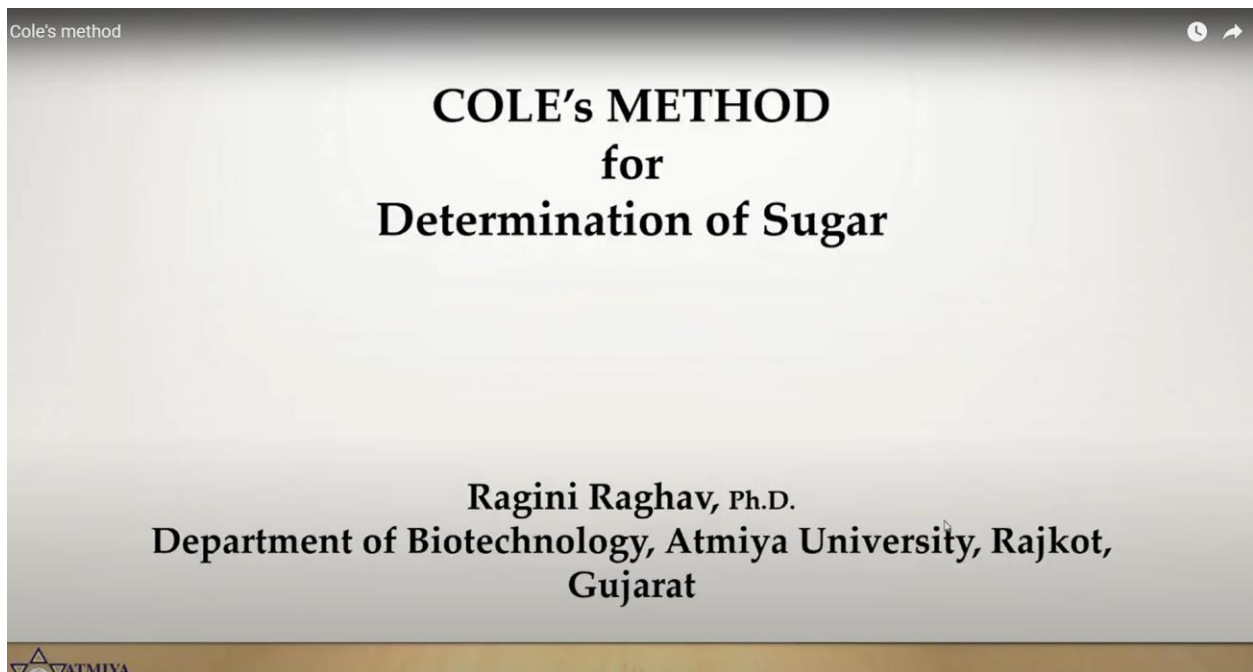
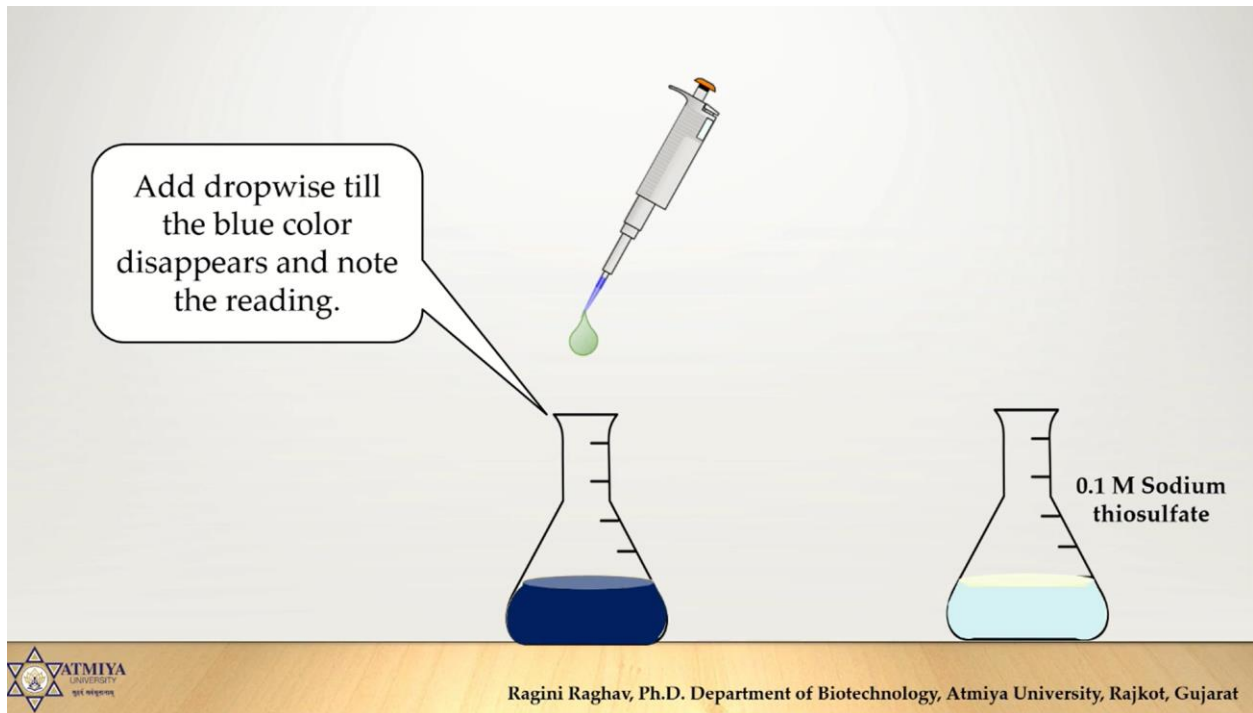
1% Starch




24.8 gm in 1 litre water
0.1 M Sodium thiosulfate




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COLE'S METHOD

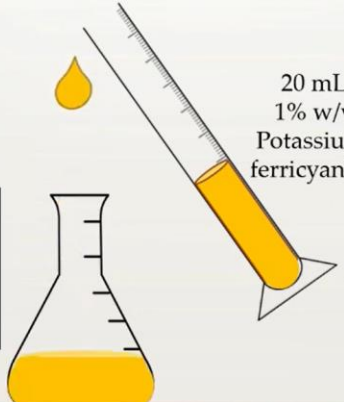
Neutralize acidity using sodium bicarbonate till effervescence stop.




COLE'S METHOD


In a fresh flask, add 20 mL potassium ferricyanide.


20 mL
1% w/v
Potassium ferricyanide




 **ATMIYA UNIVERSITY**

Ragini Raghav, Ph.D. Department of Biotechnology, Atmiya University, Rajkot, Gujarat

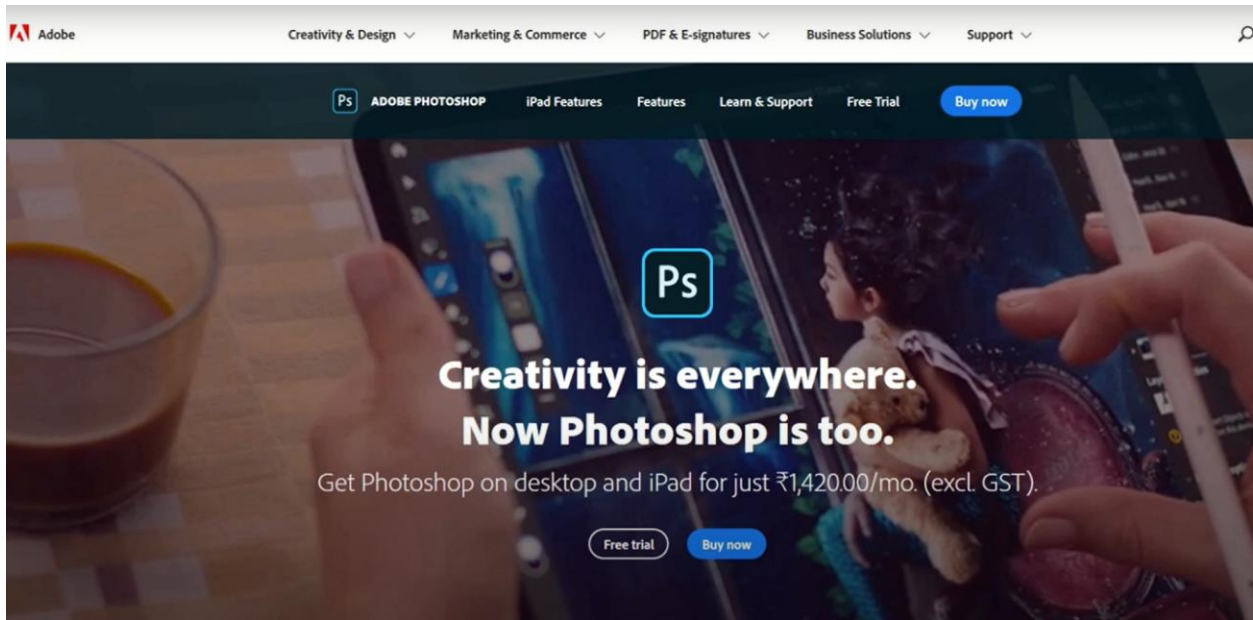
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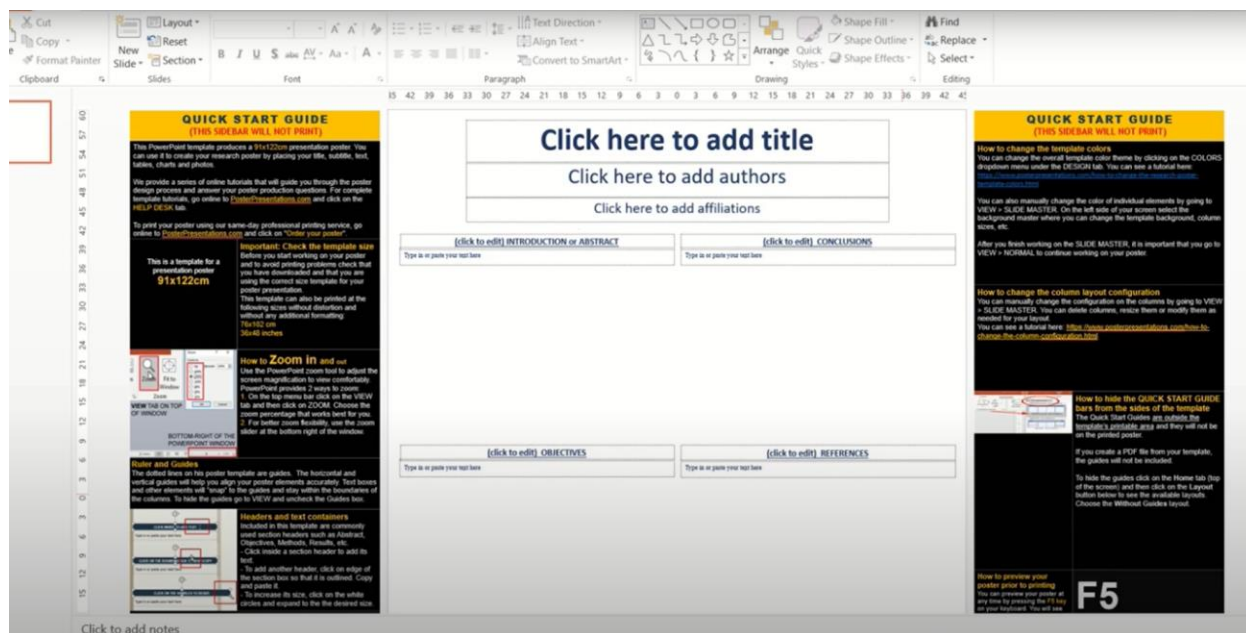
How to Make Posters using Microsoft PowerPoint



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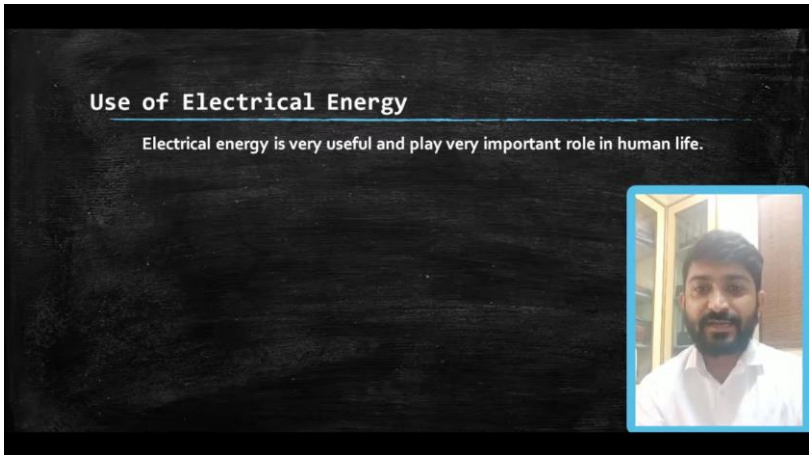
How to make scientific posters in MS PowerPoint


<h1>TITLE</h1>	
<h2>Authors</h2>	
Affiliations and Corresponding email or work phone	
ABSTRACT	RESULTS AND DISCUSSIONS
Approximately 300 words	Put graphs, tables and figures in this section.
INTRODUCTION	CONCLUSIONS
Divide it into three paragraphs 1 st paragraph should have the description of the research problem. 2 nd paragraph should include the review of literature (milestones and significant work done). 3 rd paragraph includes your approach towards resolving that problem and your significant results.	Conclude on the basis of results obtained.
MATERIAL AND METHODS	REFERENCES
Explain in brief.	Use any one type of referencing style

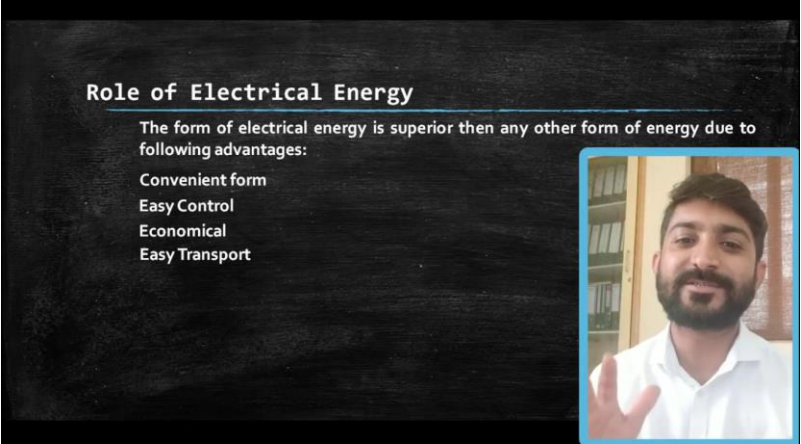
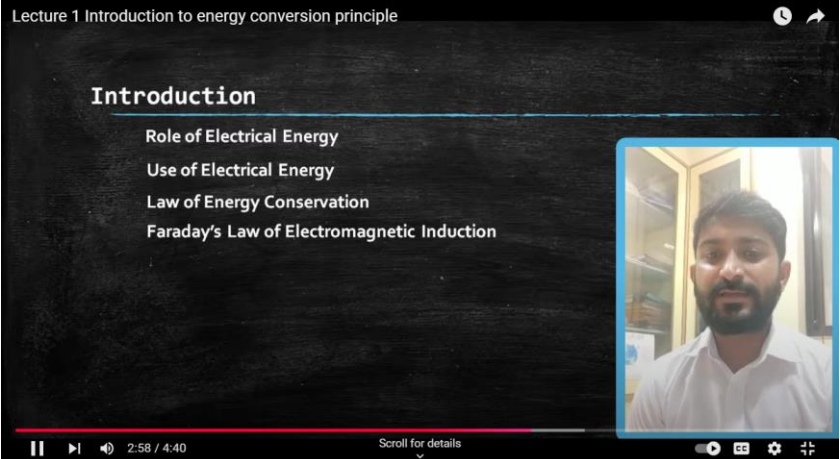
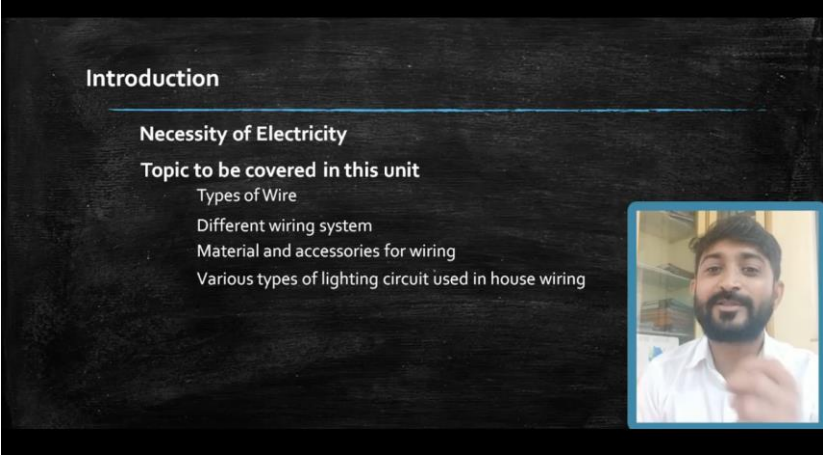
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2. Videos developed by Faculty members for Enhanced Teaching Learning

Faculty members at Atmiya University have created a series of educational videos aimed at enriching the teaching and learning experience. These videos serve as dynamic tools, offering clear explanations and practical insights to simplify complex concepts. By integrating multimedia elements, they promote a more engaging and flexible approach to education, catering to diverse learning styles

Course/ Topic	Videos	
PG_Concept of Phyllosphere and Spermophere	<p>Subject Code: 18MMBCC401 Subject Name: Agricultural Microbiology</p> <p style="text-align: center;">Module: 1.5 Rhizosphere Microorganisms : Phyllosphere, Spermosphere and Rhizoplane</p> <p>Faculty Name: Dr. Mousumi Das Branch: Microbiology</p> <p>Atmiya University, "Yogidham Gurukul", Kalawad Road, Rajkot - 360005 Web: www.atmiyauni.ac.in</p> <p>  atmiyauniversity  atmiya_university </p>	 
Use of Electrical Energy		
Role of Electrical Energy		

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<p>Introduction to energy conversion principle</p>	
<p>Introduction to Electrical Wiring and IE Rules</p>	

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Application of Synchronous Motor


Lecture 10 Application of Synchronous Motor

Application of Synchronous Motor

Various application of synchronous motor are as follow.

- Constant speed application

Fan and blowers	Machine tool	Synchronous clock
Timing Device	Textile Mill	Rolling Mill
Cement Mill	Centrifugal pump	Vacuum pump
- Power factor correction device
 The over excited motor draw current of leading power hence synchronous motor can be used as a power correcting devices.



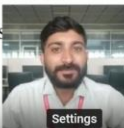
DEE_AITSOS Prof. Mahesh Dhola
0:05 / 6:23 Scroll for details

V curves and inverted V curve of Synchronous Motor

Lecture 9 V curves and inverted V curve of Synchronous Motor

V curves and inverted V curve

- **V Curves** : The family of curve which are plotted between armature current and field current for the various load condition is known as V Curves.
- **Inverted V Curves** : The family of curve which are plotted between power factor and field current for the various condition is known as V Curves.




DEE_AITSOS Prof. Mahesh Dhola
0:09 / 5:16 Scroll for details

Types of Torque and Excitation of Synchronous Motor


Lecture 8 Types of Torque and Excitation of Synchronous Motor

Different types of Torque

- **Starting Torque**
Is a torque developed by motor when full supply voltage is given to armature winding.
- **Running Torque**
Is a torque developed by motor during running condition.
- **Pull-in- Torque**
Is a torque required to pull the motor into synchronism.
- **Pull-out- Torque**
Is a maximum torque developed by motor without lo synchronism.



DEE_AITSOS Prof. Mahesh Dhola
0:04 / 6:19 Scroll for details

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Power Stage diagram of Synchronous Motor

Lecture 7 Power Stage diagram of Synchronous Motor

Power Stage Diagram of Motor

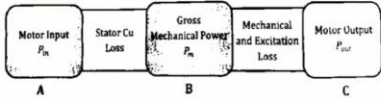


Fig. 4.11 Power Stage Diagram

- The input power given to stator of the motor in stage A.
- In stage B, we get stator output after subtracting stator losses from motor input power. Also, the DC power is supplied to the rotor in stage B.
- In stage C, after subtracting mechanical and excitation losses from gross mechanical power, we get motor output.

So, the efficiency can be written as;

$$\eta = \frac{C}{A} \times 100$$

$$\eta = \frac{\text{Motor Output}}{\text{Motor Input}} \times 100$$

$$\eta = \frac{P_{out}}{P_{in}} \times 100$$

DEE_AITSDS Prof. Mahesh Dhola 0:03 / 6:14 Scroll for details

Back EMF and Vector diagram of Synchronous Motor

Lecture 6 Back EMF and Vector diagram of Synchronous Motor

Back EMF in Motor

- When AC supply apply to stator a rotor start to run at synchronous speed and produced RMF in it.
- As stator is stationary hence this RMF will cut by armature and due to that a EMF will produced in armature winding. This EMF is known as Back EMF of motor.

denoted by $E_{b\text{ ph}}$. The direction of this emf is opposite to supply voltage.

$$E_{b\text{ ph}} = V_{ph} - I_a Z_s$$

DEE_AITSDS Prof. Mahesh Dhola 0:12 / 23:43 Scroll for details

Starting methods of Synchronous Motor


Lecture 5 Starting methods of Synchronous Motor

Method of starting Motor

As we discuss before that synchronous motor is not self starting. It is require to understand some method to make is self starting. Following methods are used for starting of motor.

- Pony motor methods
 - Using DC motor
 - Using AC motor
- Starting as a squirrel cage induction motor
- Starting as a slip ring induction motor
- Using small DC machine coupled with it.

DEE_AITSDS Prof. Mahesh Dhola 0:09 / 17:17 Scroll for details

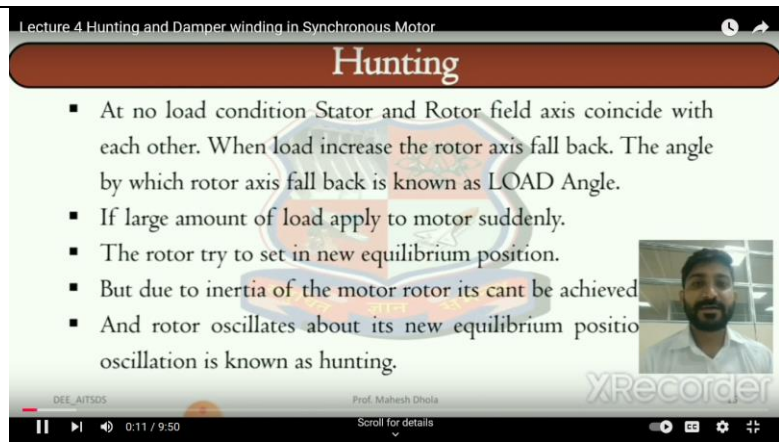
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Hunting and Damper winding in Synchronous Motor

Lecture 4 Hunting and Damper winding in Synchronous Motor

Hunting

- At no load condition Stator and Rotor field axis coincide with each other. When load increase the rotor axis fall back. The angle by which rotor axis fall back is known as LOAD Angle.
- If large amount of load apply to motor suddenly.
- The rotor try to set in new equilibrium position.
- But due to inertia of the motor rotor its cant be achieved
- And rotor oscillates about its new equilibrium position oscillation is known as hunting.

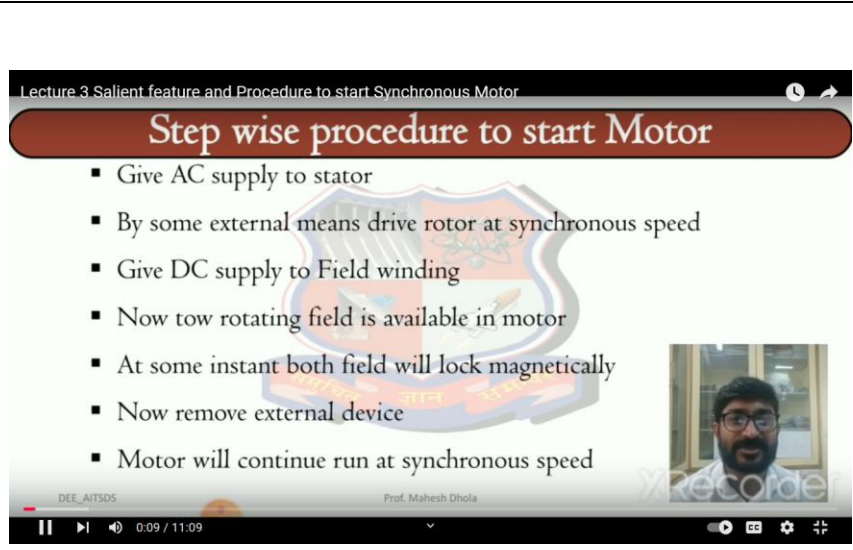


Salient feature and Procedure to start Synchronous Motor

Lecture 3 Salient feature and Procedure to start Synchronous Motor

Step wise procedure to start Motor

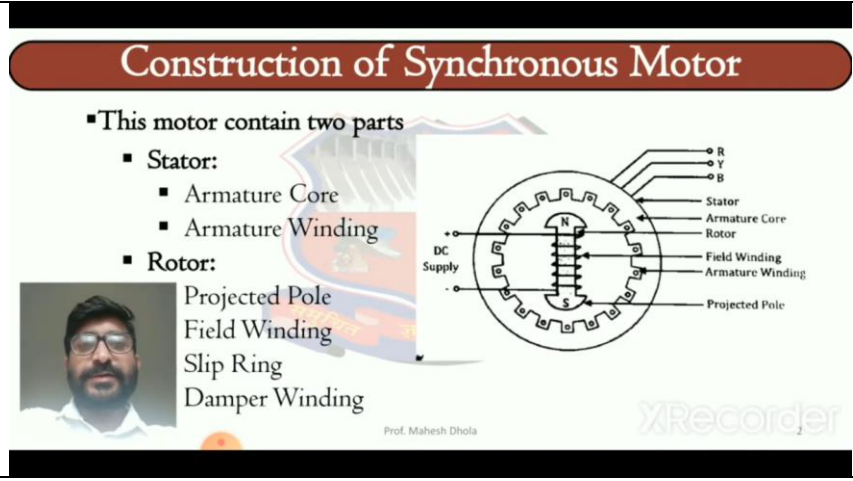
- Give AC supply to stator
- By some external means drive rotor at synchronous speed
- Give DC supply to Field winding
- Now tow rotating field is available in motor
- At some instant both field will lock magnetically
- Now remove external device
- Motor will continue run at synchronous speed




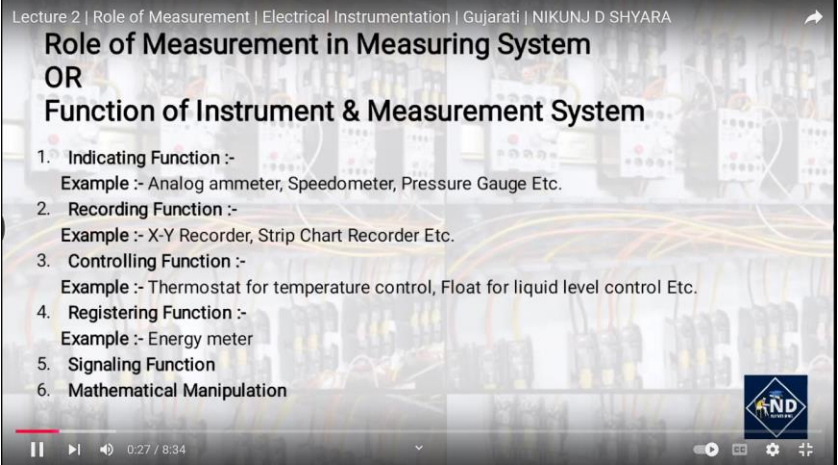
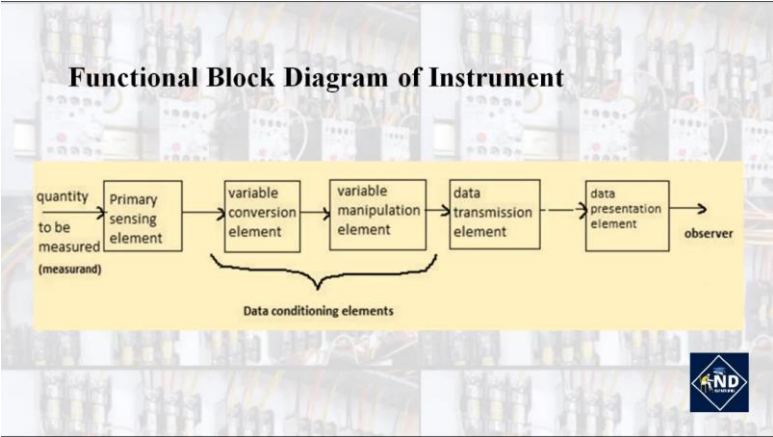

Working of Synchronous motor

Construction of Synchronous Motor

- This motor contain two parts
 - Stator:**
 - Armature Core
 - Armature Winding
 - Rotor:**
 - Projected Pole
 - Field Winding
 - Slip Ring
 - Damper Winding



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<p>Role of Measurement</p>	
<p>Block Diagram of Instrument</p>	
<p>Classification of Instrument</p>	
<p>Deflecting Torque</p>	



Torque

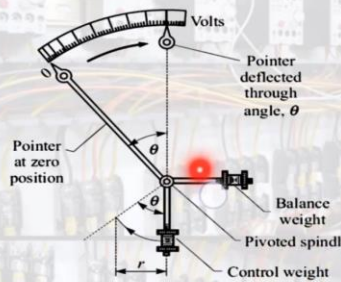
1. Deflecting Torque
2. Controlling Torque
3. Damping Torque



Gravity Control

Controlling Torque

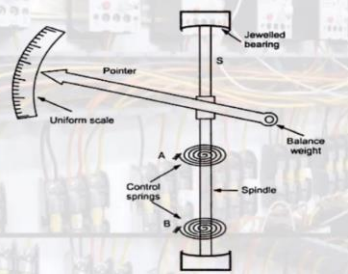
1. Gravity Control :-




Spring Control

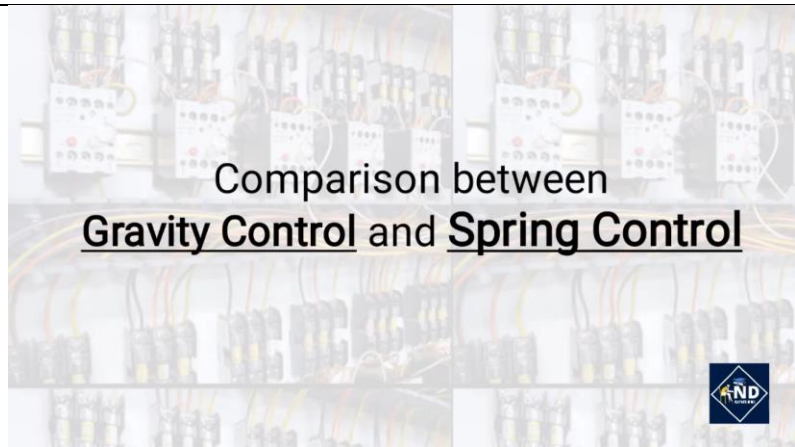
Controlling Torque

2. Spring Control :-

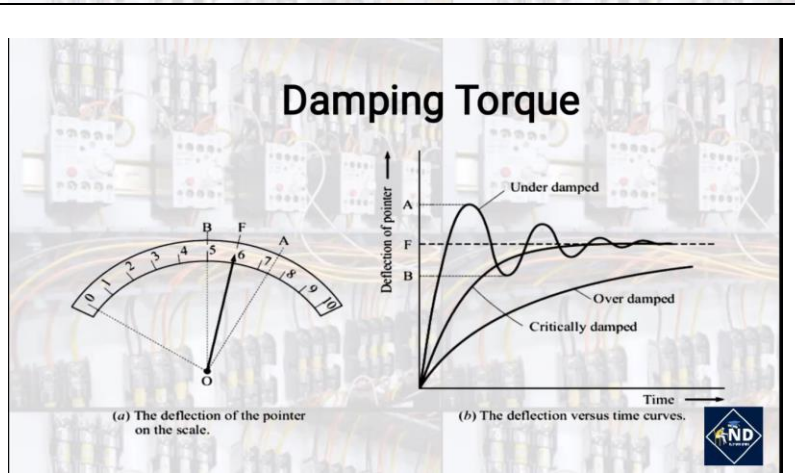


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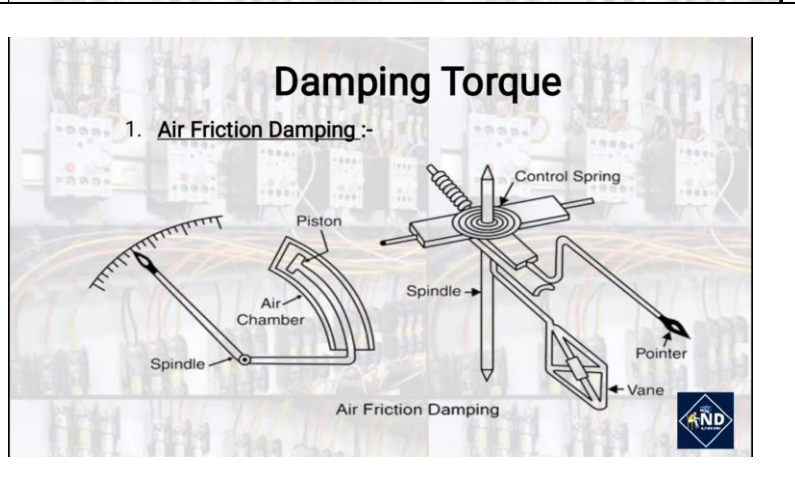
Comparison of Gravity Control & Spring Control



What is Damping ?

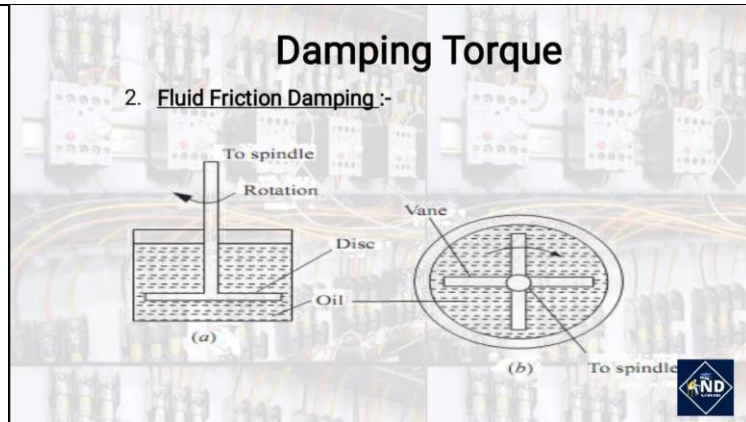


Air Friction Damping

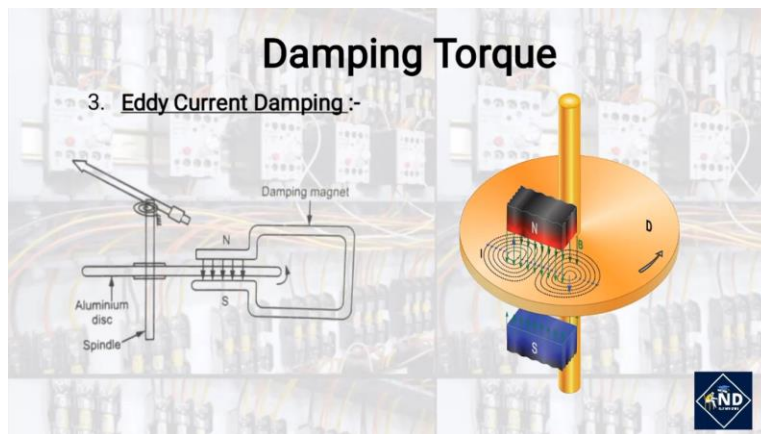




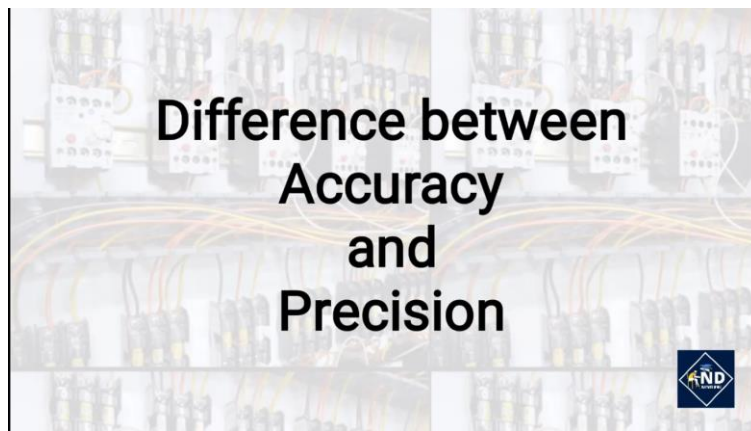
Fluid Friction Damping




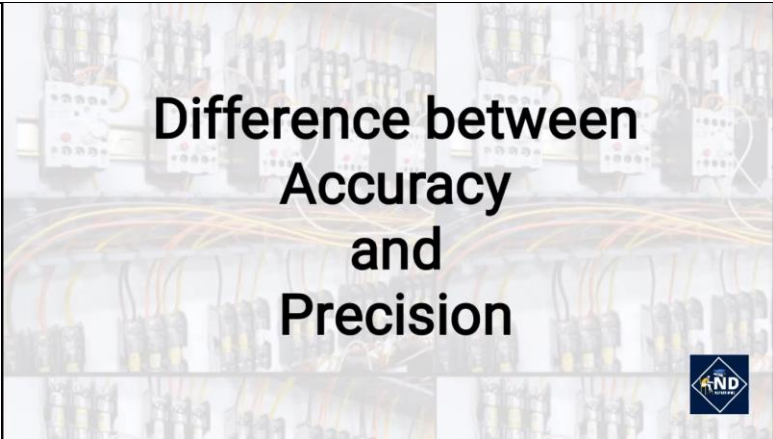
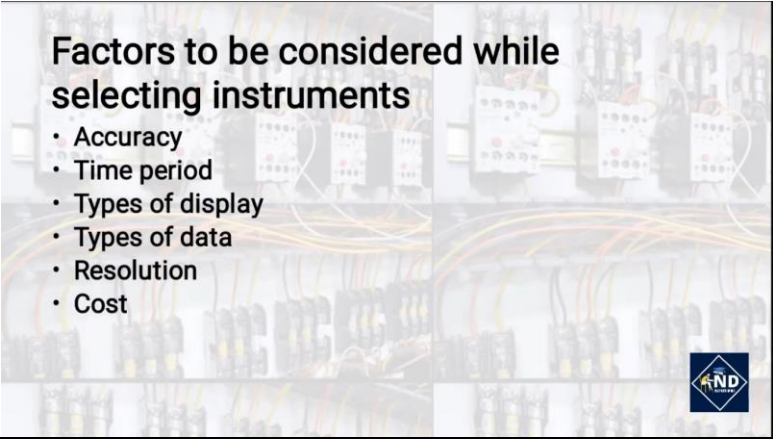
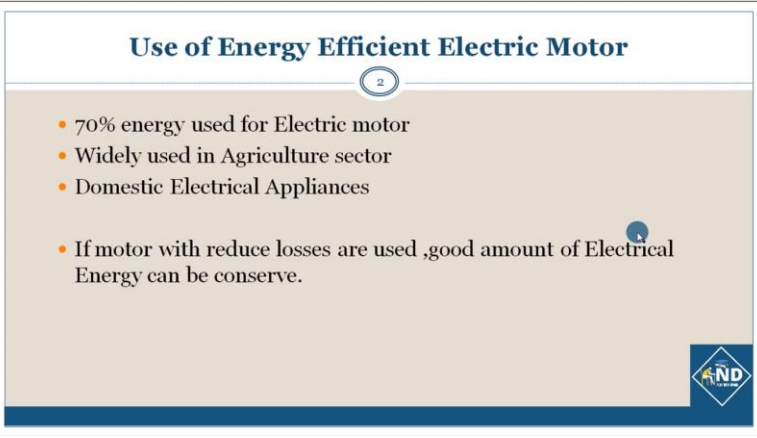
Eddy Current Damping



Terms Related to Measurement



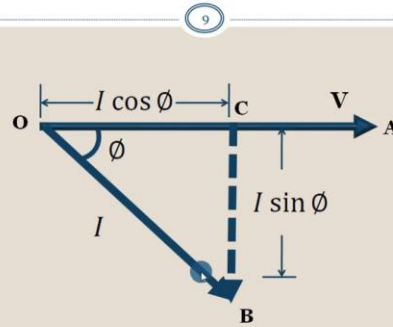
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<p>Accuracy and Precision</p>	
<p>Factors for Selecting Instruments</p>	
<p>Energy Efficient Motor</p>	



Power Factor Improvement in Electrical System

Power Factor Improvement in Electrical System



Features of Power Factor

Average power factor of different types of load

Sr.No.	Types of Load	Power factor
1	Induction motor	0.5 to 0.8
2	Fractional H. P. motor	0.4 to 0.75
3	Synchronous motor	o lagging to o leading
4	Fan	0.5 to 0.8
5	Incandescent lamp	Unity
6	Fluorescent lamp	0.6 to 0.8
7	Neon sign	0.4 to 0.8
8	Arc lamp	0.3 to 0.7
9	Resistance furnace	0.6 to 0.9
10	Arc furnace	0.6

Methods of improving power factor

Methods of improving power factor

- Using special type of motor having high power factor
- Using the phase advancers
- Using capacitor booster
- Using synchronous condenser
- Using synchronous motor

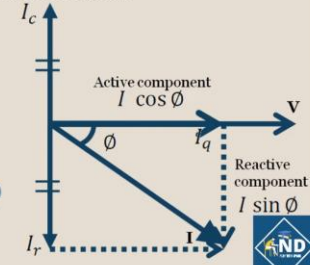


Calculation of capacitor for power factor improvement

Calculation of capacitor for power factor improvement

17

Leading current of capacitor



Load kW Remains Constant

$\cos \phi_1$ lagging $Q_1 = kVA_1 = OA$

$P_1 = kW_1 = kVA_1 \cos \phi_1 = OB$

$kVAr = OD = AC$

Improving P. F. By $\cos \phi$

$kVA_1 \cos \phi_1 = kVA \cos \phi$

$= kW_1 = OB = AC = AB - BC$

$= OB \tan \phi_1 - OB \tan \phi$

$= P_1 \tan \phi_1 - P_1 \tan \phi$

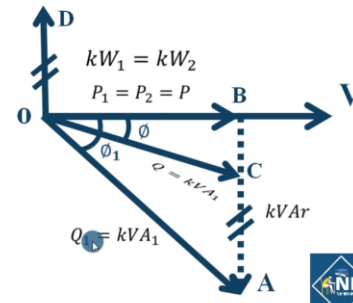
And $P_1 = P_2 = P$

$kVAr = P (\tan \phi_1 - \tan \phi)$

$\cos \phi = 1 \quad \tan \phi = 0$

$kVAr = P \tan \phi_1$

Load kW Remains Constant



KVA Remains Constant

$\cos \phi_1 \quad \cos \phi$

$kVA = Q = OA$

$kVAr = AE = AC - EC = AC - BD$

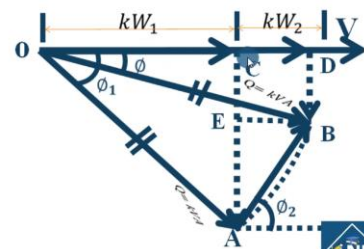
$= OA \sin \phi_1 - OB \sin \phi$

$OA = OB = Q$

$kVAr = Q (\sin \phi_1 - \sin \phi)$

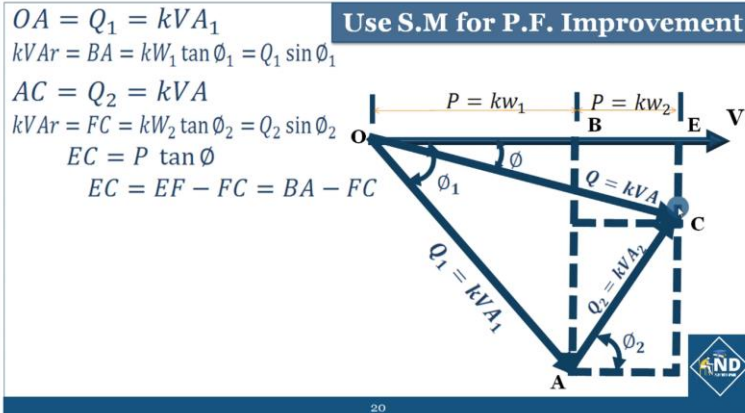
$CD = OD - OC$

KVA Remains Constant





Power Factor Improvement Using Synchronous Motor

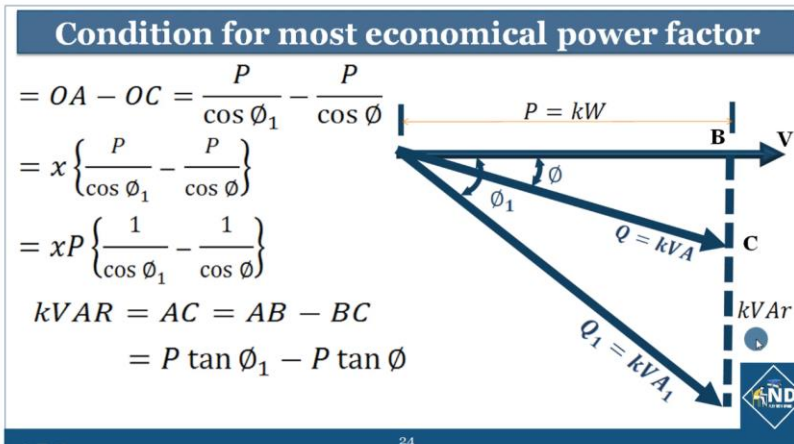


Comparison of Static Capacitor and Synchronous Motor

Comparison between the static capacitor and synchronous motor

Static capacitor	Synchronous motor
<ul style="list-style-type: none"> Initial cost is low (adv.) Power factor of capacitor remains always zero leading (dis adv.) For automatic improvement of power factor, the required value of capacitance has to be adjusted in a complicated way. And it is difficult to get the exact value of the capacitance (dis adv.) 	<ul style="list-style-type: none"> Initial cost is more. Power factor of synchronous motor can be adjusted to any value. By adjusting only the excitation, the desired power factor can be adjusted by the closed loop control.

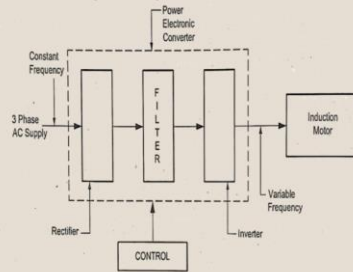
Condition for most economical power factor





Energy conservation by variable speed drive - VSD

Energy conservation by variable speed drive - VSD



- Also called the variable frequency drive (VFD).
- Because to change the speed the frequency of the a. c. supply given to it is changed.
- This is called the variable voltage variable frequency (VVVF) drive also as the voltage is also changed when the frequency is changed.
- To keep the ratio of v/f constant maintain the flux constant.



Energy conservation in compressor in Air Conditioner

Energy conservation in ventilation and air conditioning:

- Keep the doors and window closed when the A. C. is on.
- Switch off the window fan when the A. C. is on.
- Use double-door ,air curtain, automatic door closer, double glazed window etc.
- Air compressor should be placed in the cool shaded area.
- More efficient compressor should be used for the continuous duty.
- Cleaning, inspection, maintenance and tuning of the air conditioner should be carried out periodically by the trained technician.










Energy conservation in compressor in Pumps


Energy conservation in pumps

- Rating of the pump should be as per the requirement only.
- The motor driving the pump should match with pump.
- Variable speed drive should be used instead of throttling valve.
- Changes in the operating conditions, two to three small pumps should be operated.
- Alignment of the shaft and the transmission system should be proper.
- Synthetic type flat belt should be used instead of V belt.
- Regular maintenance of the pump unit should be carried out.
- Good quality PVC pipes should be used instead of galvanized pipes.

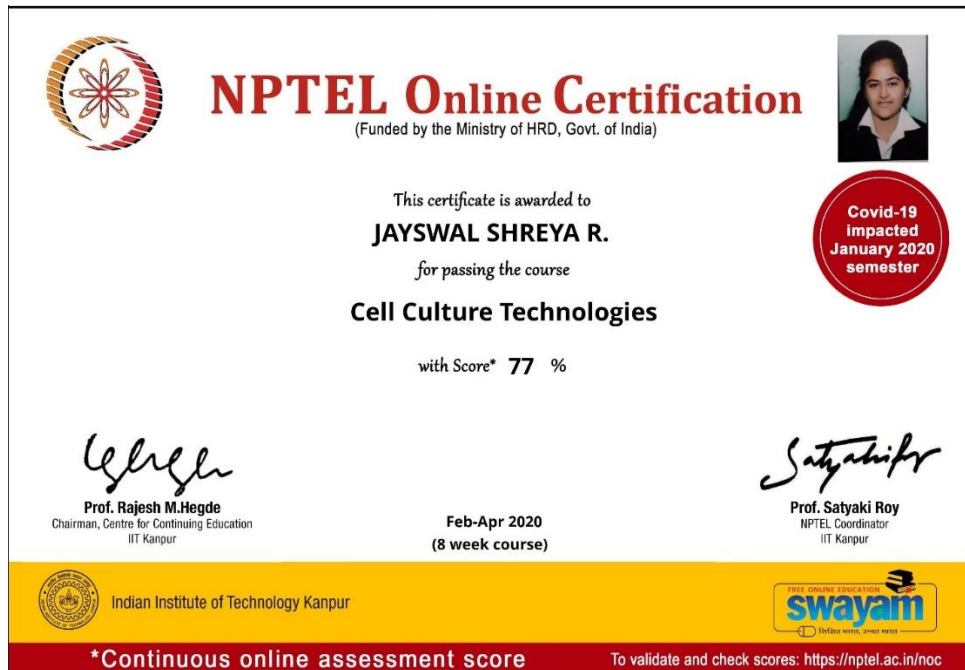



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	Criterion- 2	T, L & E
	KI 2.3	M 2.3.1

<p>Energy conservation in Fans and Blowers</p>	<div style="text-align: center;">  </div> <h3 style="text-align: center;">Energy conservation in fans and blowers</h3> <ul style="list-style-type: none"> • Specific type of pump should be selected considering the noise, speed, air stream characteristic, temperature range, operating conditions etc. • System resistance should be less. • Fan should be operated at the best efficiency point (BEP). • Regular maintenance of the fan blower should be done. • Air inlet should be smooth and of circular air cone. 
<p>Energy conservation by Area Sealing</p>	<div style="text-align: center;">  </div> <h3 style="text-align: center;">Energy conservation by area sealing</h3> <ul style="list-style-type: none"> • When hot or cold air is passed through the duct, there should not be holes or opening of any kind in the duct. • If it is found, it should be sealed immediately with the help of sealing compound. • Good amount of energy can be conserved by doing this. • In the similar way, if glass of the window in the room with air conditioning, or if the opening is left out in the ventilator, these should be closed. • This reduces the load on the air conditioner and the energy can be conserved. 
<p>Energy conservation by Automatic Door Closing</p>	<div style="text-align: center;">  </div> <h3 style="text-align: center;">Energy conservation by automatic door closing</h3> <ul style="list-style-type: none"> • The doors and windows should be kept closed when the air conditioner is operating. • Sometimes closing of the door is forgotten. • This increases the loading on the air conditioner which results in loss of energy. • In such situations if the spring loaded doors are used the doors are closed automatically and there is conservation of energy. • Recently sliding type doors are employed. • When a person comes near the door it is sensed by the electronic sensor and the door slides with the help of electric motor. • The door is closed when the person passes. 
<p>Construction & Working of D.C. Generator</p>	

 ATMIYA UNIVERSITY	NAAC – Cycle – 1 AISHE: U-0967	
	Criterion- 2	T, L & E
	KI 2.3	M 2.3.1

3. **Certificates of NPTEL-SWAYAM of students for Technology Enhanced Learning**
 Students at Atmiya University have actively participated in NPTEL-SWAYAM courses, a government initiative under the Ministry of Education, aimed at promoting technology-enhanced learning. These sample certificates showcase their accomplishments in diverse subjects, reflecting their commitment to academic growth and digital learning. The certifications highlight the university's emphasis on integrating advanced e-learning platforms with traditional education, enabling students to access high-quality resources, learn at their own pace, and gain industry-relevant skills



 ATMIYA UNIVERSITY	NAAC – Cycle – 1 AISHE: U-0967	
	Criterion- 2	T, L & E
	KI 2.3	M 2.3.1



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

BHARGAVI MUKESHBHAI DAVE

for successfully completing the course

Dairy and Food Process and Products Technology

with a consolidated score of **57** %

Online Assignments	24.38/25	Proctored Exam	33/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **653**


Prof. G P Raja Sekhar
 Dean, Continuing Education
 IIT Kharagpur

Jul-Oct 2021
 (12 week course)


Prof. Debjani Chakraborty
 Coordinator, NPTEL
 IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL21AG02S14230003

To validate and check scores: <https://nptel.ac.in/noc>

Elite



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

CHAROLIYA MEET MUKESHBHAI

for successfully completing the course

Enhancing Soft Skills and Personality

with a consolidated score of **60** %

Online Assignments	22.29/25	Proctored Exam	38.09/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **9994**


Prof. B. V. Ratish Kumar
 Chairman, Centre for Continuing Education
 IIT Kanpur

Feb-Apr 2022
 (8 week course)


Prof. Satyaki Roy
 NPTEL Coordinator
 IIT Kanpur





Indian Institute of Technology Kanpur



Roll No: NPTEL22HS08S44090237


To validate and check scores: <https://nptel.ac.in/noc>

 ATMIYA UNIVERSITY	NAAC – Cycle – 1 AISHE: U-0967	
	Criterion- 2	T, L & E
	KI 2.3	M 2.3.1



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



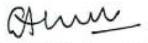
This certificate is awarded to
DHARMI LIMBASIYA
 for successfully completing the course

Cell Biology: Cellular Organization, Division and Processes

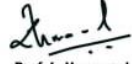
with a consolidated score of **53** %


Online Assignments	23.33/25	Proctored Exam	30/75
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Total number of candidates certified in this course: **1155**



Prof. G. L. Sivakumar Babu
Chairman, Center for Continuing Education
IISc Bangalore

Jan-Mar 2022
(8 week course)


Prof. L. Umanand
NPTEL Coordinator
IISc Bangalore




Indian Institute of Science Bangalore




Roll No: NPTEL22BT18S34140062

To validate and check scores: <https://nptel.ac.in/noc>



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)




This certificate is awarded to
CHADANIYA NIDHI KANTILAL
 for successfully completing the course

Animal Physiology


with a consolidated score of **54** %


Online Assignments	19.38/25	Proctored Exam	34.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **471**



Prof. Rajesh M. Hegde
Chairman, Centre for Continuing Education
IIT Kanpur

Jul-Oct 2021
(12 week course)


Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur





Indian Institute of Technology Kanpur



Roll No: NPTEL21BT46S44230245

To validate and check scores: <https://nptel.ac.in/noc>



 ATMIYA UNIVERSITY	NAAC – Cycle – 1 AISHE: U-0967	
	Criterion- 2	T, L & E
	KI 2.3	M 2.3.1



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to
AARJAV PINARA
for successfully completing the course


Experimental Biotechnology

with a consolidated score of **87** %


Online Assignments	19.5/25	Proctored Exam	67.5/75
--------------------	---------	----------------	---------

Total number of candidates certified in this course: **371**


Jul-Oct 2021
(12 week course)



Prof. Hemant B Kaushik
Head, Center for Educational Technology
NPTEL Coordinator, IIT Guwahati



Indian Institute of Technology Guwahati



Roll No: NPTEL21BT36S34230201 To validate and check scores: <https://nptel.ac.in/noc>



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
MALHAR THAKAR
for successfully completing the course


Environmental Biotechnology

with a consolidated score of **51** %


Online Assignments	20.16/25	Proctored Exam	31.13/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **235**

Jul-Oct 2021
(12 week course)



Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur




Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur




Indian Institute of Technology Kharagpur



Roll No: NPTEL21BT41S44230235 To validate and check scores: <https://nptel.ac.in/noc>


 ATMIYA UNIVERSITY	NAAC – Cycle – 1 AISHE: U-0967	
	Criterion- 2	T, L & E
	KI 2.3	M 2.3.1



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)




This certificate is awarded to
JANKI JETHWA
for successfully completing the course

Soft Skill Development


with a consolidated score of **64** %


Online Assignments	19.79/25	Proctored Exam	44.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **8130**



Prof. Jayanta Mukhopadhyay
Dean Outreach
IIT Kharagpur

Jan-Mar 2022
(8 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur




Indian Institute of Technology Kharagpur



Roll No: NPTEL22HS07S34140149


To validate and check scores: <https://nptel.ac.in/noc>



Elite

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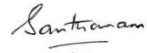
This certificate is awarded to
ABHISHEK
for successfully completing the course

Introduction to Cell Biology


with a consolidated score of **60** %


Online Assignments	19.58/25	Proctored Exam	40.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **616**



Prof. M. S. Santhanam
Dean, International Relations and Outreach
IISER Pune

Aug-Oct 2022
(8 week course)



Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras




IISER - Indian Institute of Science Education
and Research Pune



Roll No: NPTEL22BT33S63550208

To validate the certificate 

No. of credits recommended: 2 or 3

 ATMIYA UNIVERSITY	NAAC – Cycle – 1 AISHE: U-0967	
	Criterion- 2	T, L & E
	KI 2.3	M 2.3.1



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
DHRUVI ASHOKBHAI PATADIA
 for successfully completing the course

Biophotonics

with a consolidated score of **48** %

Online Assignments	17.97/25	Proctored Exam	30.13/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **83**


Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Jan-Apr 2021
(12 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur




Indian Institute of Technology Kharagpur




Roll No: NPTEL21GE13S14220154

To validate and check scores: <https://npTEL.ac.in/noc>



Elite NPTEL Online Certification

(Funded by the MoE, Govt. of India)



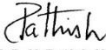
This certificate is awarded to
PANCHHI JOSHI
 for successfully completing the course

Wildlife Ecology


with a consolidated score of **90** %


Online Assignments	24.69/25	Proctored Exam	65.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **3438**



Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Jul-Oct 2022
(12 week course)



Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur




Indian Institute of Technology Kanpur



Roll No: NPTEL22BT55S43550189

To validate the certificate 

No. of credits recommended: 3 or 4

 ATMIYA UNIVERSITY	NAAC – Cycle – 1 AISHE: U-0967	
	Criterion- 2	T, L & E
	KI 2.3	M 2.3.1



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
SARIKA SINGH
 for successfully completing the course

RNA Biology

with a consolidated score of **60** %

Online Assignments	18.75/25	Proctored Exam	41.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **168**


Prof. Jasjeet Singh Bagla
 Dean Academics
 IISER Mohali

Jan-Apr 2023
 (12 week course)


Prof. Andrew Thangaraj
 NPTEL, Coordinator
 IIT Madras



Indian Institute of Science Education and Research Mohali



Roll No: NPTEL23BT03S44510161

To validate the certificate



No. of credits recommended: 3 or 4



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
MAYA PARMAR
 for successfully completing the course

Plant Cell Bioprocessing

with a consolidated score of **49** %

Online Assignments	18.33/25	Proctored Exam	31.13/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **390**


Prof. Devendra Jalihal
 Chairperson,
 Centre for Outreach and Digital Education, IITM

Jul-Sep 2023
 (8 week course)


Prof. Andrew Thangaraj
 NPTEL, Coordinator
 IIT Madras



Indian Institute of Technology Madras




Roll No: NPTEL23BT42S34470211

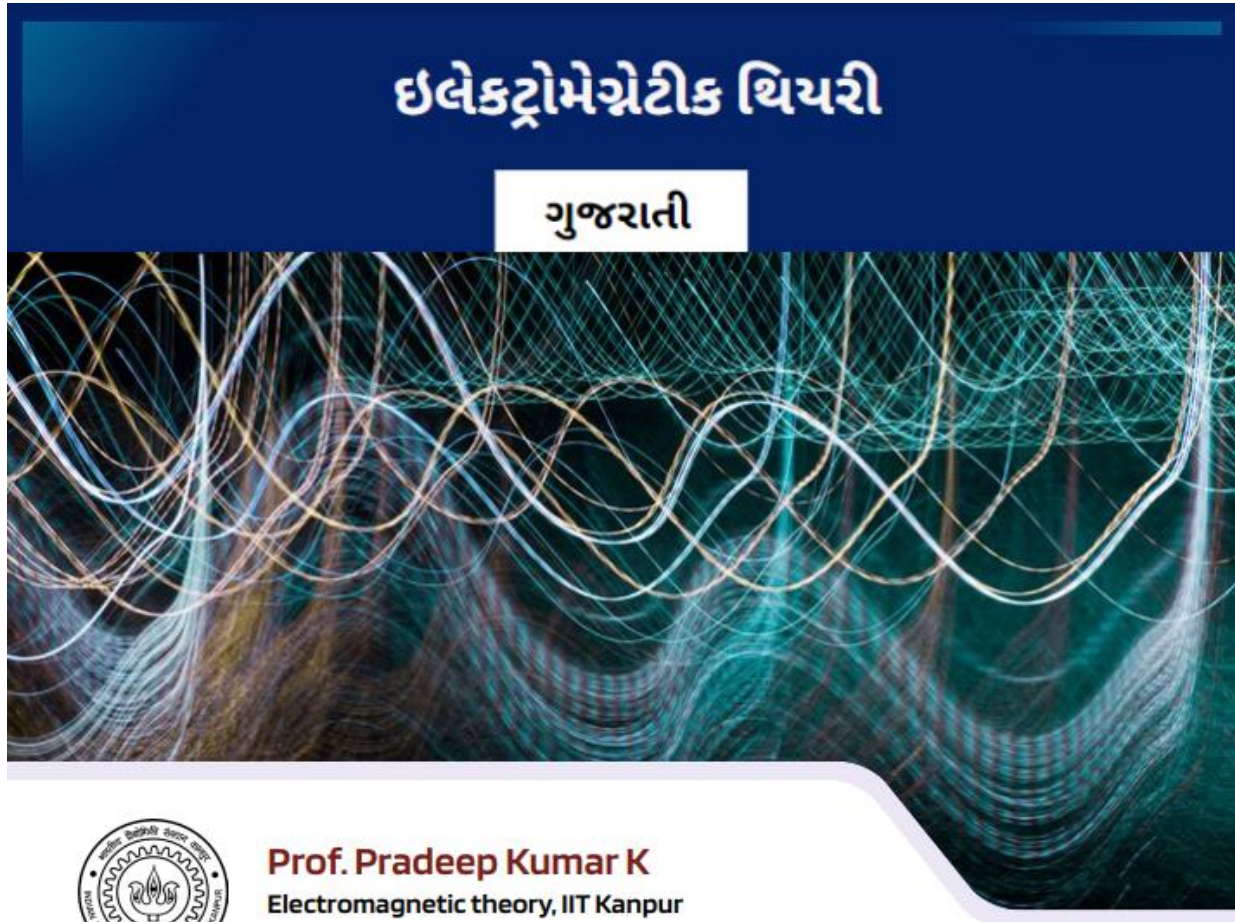
To verify the certificate



No. of credits recommended: 2 or 3


 ATMIYA UNIVERSITY	NAAC – Cycle – 1 AISHE: U-0967	
	Criterion- 2	T, L & E
	KI 2.3	M 2.3.1


Several faculty members have translated NPTEL videos into Gujarati, and a few certificates for their contributions are provided below:



Translated by

Name	Institute
R.M.PATEL	ADITYA SILVER OAK INSTITUTE OF TECHNOLOGY
NIKUNJ DEVSIBHAI SHYARA	ATMIYA INSTITUTE OF TECHNOLOGY AND SCIENCE FOR DIPLOMA STUDIES
JIGAR RATNOTTAR	FREELANCER
AKSHAYAKUMAR	GATI SHAKTI VISHWAVIDYALAYA
SHUKLA DARSHAN H	C U SHAH GOVT. POLYTECHNIC
R.M.PATEL	ADITYA SILVER OAK INSTITUTE OF TECHNOLOGY-AHMEDABAD

 ATMIYA UNIVERSITY	NAAC – Cycle – 1 AISHE: U-0967	
	Criterion- 2	T, L & E
	KI 2.3	M 2.3.1




CERTIFICATE OF APPRECIATION

This Certificate is presented to
Jigar Ratnottar

for translating the files of the course
Principles of Signals and Systems (108104100)

offered by IITK
in Gujarati language. Hours translated: **4**

Date : **04/10/2023**


 Andrew Thangaraj
 Coordinator, NPTEL

પ્રિન્સીપલ્સ ઓફ સિગ્નલ્સ એન્ડ સિસ્ટમ્સ

ગુજરાતી








Prof. Aditya K. Jagannatham
Electrical Engineering, IITK

Translated by

Name	Institute
NIKHIL PANCHAL	L. D. COLLEGE OF ENGINEERING
PRANAVKUMAR P PATEL	LAXMI INSTITUTE OF TECHNOLOGY SARIGAM
SONI JATINKUMAR MAHESHBHAI	GANPAT UNIVERSITY- INSTITUTE OF TECHNOLOGY
JIGAR RATNOTTAR	FREELANCER
FALGUN PATEL	SANKALCHAND PATEL COLLEGE OF ENGINEERING, VISHNAGAR
RAKESHKUMR PATEL	ADITYA SILVER OAK INSTITUTE OF TECHNOLOGY

 ATMIYA UNIVERSITY	NAAC – Cycle – 1 AISHE: U-0967	
	Criterion- 2	T, L & E
	KI 2.3	M 2.3.1

CERTIFICATE

— OF APPRECIATION —

This Certificate is presented to

Jigar Ratnottar

for translating the files of the course

Database Management System (106105175)

offered by IITKGP

in Gujarati language. Hours translated: **5.75**

Date: **04/08/2023**


 Andrew Thangaraj
 Coordinator, NPTEL




CERTIFICATE

— OF APPRECIATION —

This Certificate is presented to

Jigar Ratnottar

for translating the files of the course

Microprocessors and Microcontrollers (108105102)

offered by IITKGP

in Gujarati language. Hours translated: **5.5**


Date: **18/11/2022**



 Andrew Thangaraj
 Coordinator, NPTEL



માઇક્રોપ્રોસેસર એન્ડ માઇક્રોકન્ટ્રોલર

ગુજરાતી



 **Prof. Santanu Chattopadhyay**
Electrical Engineering, IIT Kharagpur

Translated by


Name	Institute
DR. ZALAR SHAH	SILVER OAK COLLEGE OF ENGINEERING AND TECHNOLOGY
DR. MAJIK RAJCHURA	SILVER OAK COLLEGE OF ENGINEERING AND TECHNOLOGY
WADANAGRA SONAL KAMLESHEHWI	R. P. BHALODIYA
BHAWIK A ARDESHAWA	G H PATEL COLLEGE OF ENGINEERING & TECHNOLOGY
MAYURI JOSHI	BHARALBHAI & BHIBHABHAI INSTITUTE OF TECHNOLOGY - VALLABH VIDYANAGAR
JIGAR RATNOTAR	FREELANCER


Verified by

NAME	INSTITUTE
HIRALKUMAR C. BADRAKIA	BHARALBHAI & BHIBHABHAI INSTITUTE OF TECHNOLOGY

MICROPROCESSORS AND MICROCONTROLLERS

Gujarati

 ATMIYA UNIVERSITY	NAAC – Cycle – 1 AISHE: U-0967	
	Criterion- 2	T, L & E
	KI 2.3	M 2.3.1

CERTIFICATE

— OF APPRECIATION —

This Certificate is presented to

Jigar Ratnottar

for translating the files of the course

Computational Electromagnetics (108106152)

offered by **IIT Madras**

in **Gujarati** *language. Hours translated:* **6.75**

Date: **31/03/2022**


 Andrew Thangaraj
 Coordinator, NPTEL

Computational Electromagnetics

કોમ્પ્યુટેશનલ ઇલેક્ટ્રોમેગ્નેટિક્સ

Prof. Uday Khankhoje

પ્રો.ઉદય ખાનખોજે

Department of Electrical Engineering

ડીપાર્ટમેન્ટ ઓફ ઇલેક્ટ્રિકલ એન્જિનિયરીંગ

Indian Institute of Technology, Madras

ઇન્ડિયન ઇન્સ્ટિટ્યૂટ ઓફ ટેકનોલોજી, મદ્રાસ

Review of Vector Calculus

રીવ્યુ ઓફ વેક્ટર કેલ્ક્યુલસ

Lecture – 1.1

Chain Rule of Differentiation


લેક્ચર- 1.1

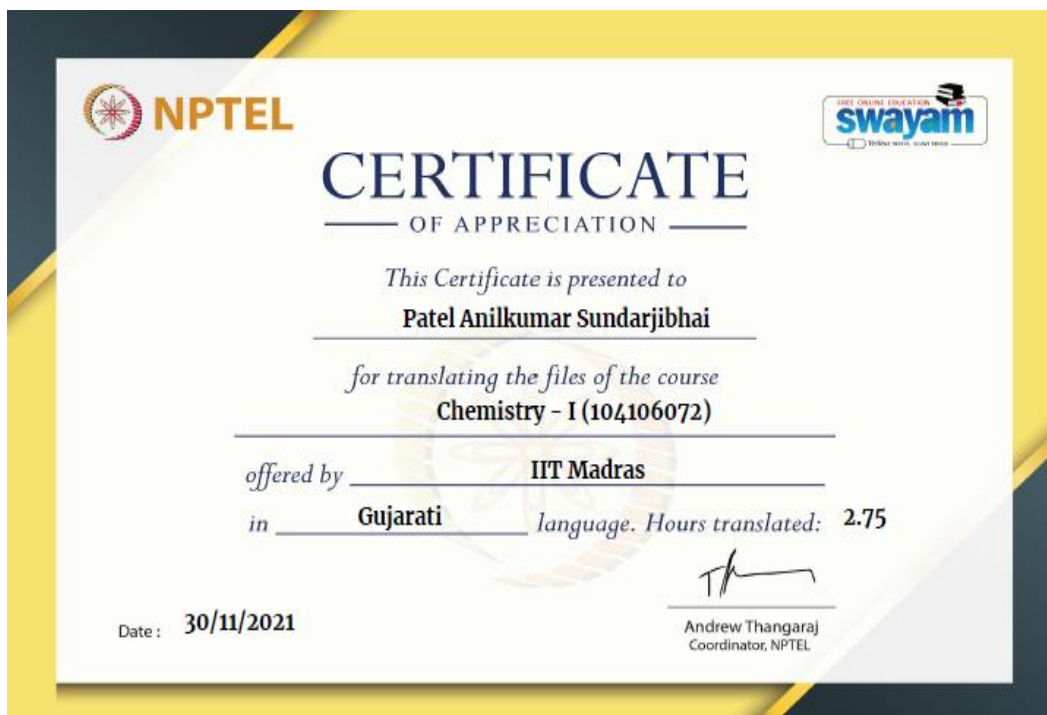
ચેન રુલ ઓફ ડિફરેન્શિયેશન


કોમ્પ્યુટેશનલ ઇલેક્ટ્રોમેગ્નેટિક્સ પરના પ્રથમ વ્યાખ્યાનમાં તમારું સ્વાગત છે જે વેક્ટર કેલ્ક્યુલસની સમીક્ષા છે. તેથી, જેમ કે આપણે આ કોર્સમાં જોઈશું કે આ કોર્સમાં જે વિચારવામાં આવે છે અથવા બોલાય છે તે વેક્ટર કેલ્ક્યુલસની (Vector Calculus) છે.

તેથી, તે મહત્વનું છે કે આપણે કેટલાક પાયાના વિચારોથી માહિતીગાર બનીએ જે ઇલેક્ટ્રોમેગ્નેટિક્સ માટે ઉપયોગી છે. વેક્ટર કેલ્ક્યુલસ એ ખૂબ વિશાળ વિસ્તાર છે, આપણે ફક્ત તે જ સમજીશું જે ઇલેક્ટ્રોમેગ્નેટિક્સને સંબંધિત છે.


(Refer Slide Time: 00:42)

 ATMIYA UNIVERSITY	NAAC – Cycle – 1 AISHE: U-0967	
	Criterion- 2	T, L & E
	KI 2.3	M 2.3.1




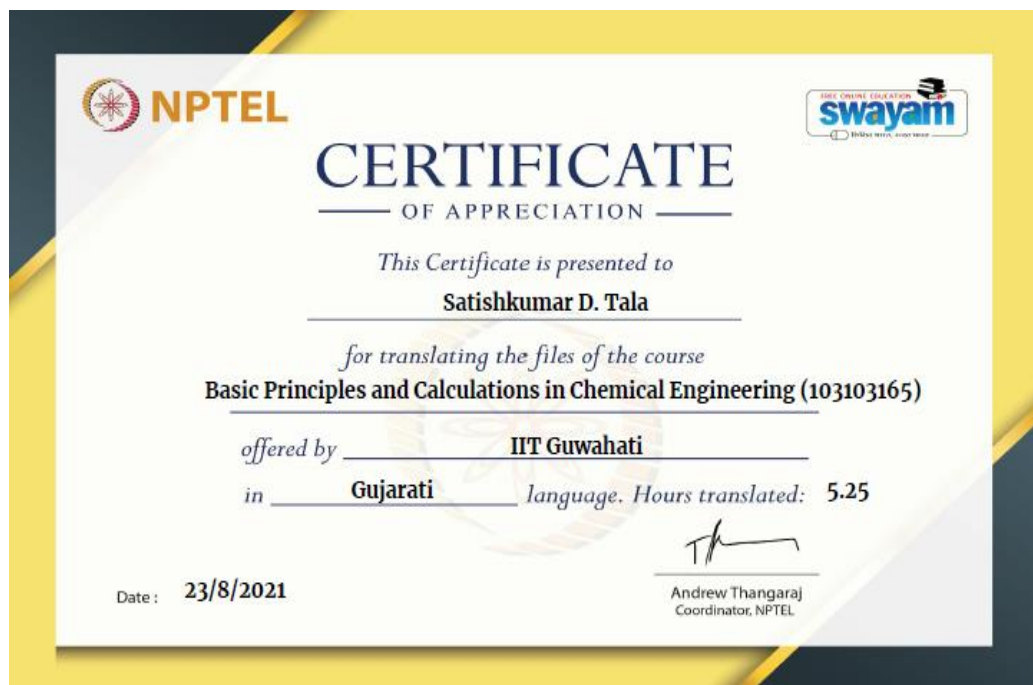
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	Criterion- 2	T, L & E
	KI 2.3	M 2.3.1



 ATMIYA UNIVERSITY	NAAC – Cycle – 1 AISHE: U-0967	
	Criterion- 2	T, L & E
	KI 2.3	M 2.3.1





 ATMIYA UNIVERSITY	NAAC – Cycle – 1 AISHE: U-0967	
	Criterion- 2	T, L & E
	KI 2.3	M 2.3.1



બૈજિક પ્રિન્સીપલ્સ એન્ડ કેલ્ક્યુલેશન ઇન કેમિકલ એન્જિનિયરિંગ


ગુજરાતી




Prof. Subrata kumar majumdar
 Chemical Engineering, IIT Guwahati

Translated by


Name	Institute
DR. MAHESH M SAVANT	ATMIYA UNIVERSITY
HEMANT MAHESHBHAI JARIWALA	GOVERNMENT ENGINEERING COLLEGE VALSAD
DR. SATISHKUMAR DHIRAJILA TALA	ATMIYA UNIVERSITY, RAJKOT
MEVADA SHREYANSH RAMESHBHAI	GUJARAT UNIVERSITY


 ATMIYA UNIVERSITY	NAAC – Cycle – 1 AISHE: U-0967	
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ગુજરાતી




Prof. Subrata kumar majumdar
 Chemical Engineering, IIT Guwahati

Translated by


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DR. MAHESH M SAVANT	ATMIYA UNIVERSITY
HEMANT MAHESHBHAI JARIWALA	GOVERNMENT ENGINEERING COLLEGE VALSAD
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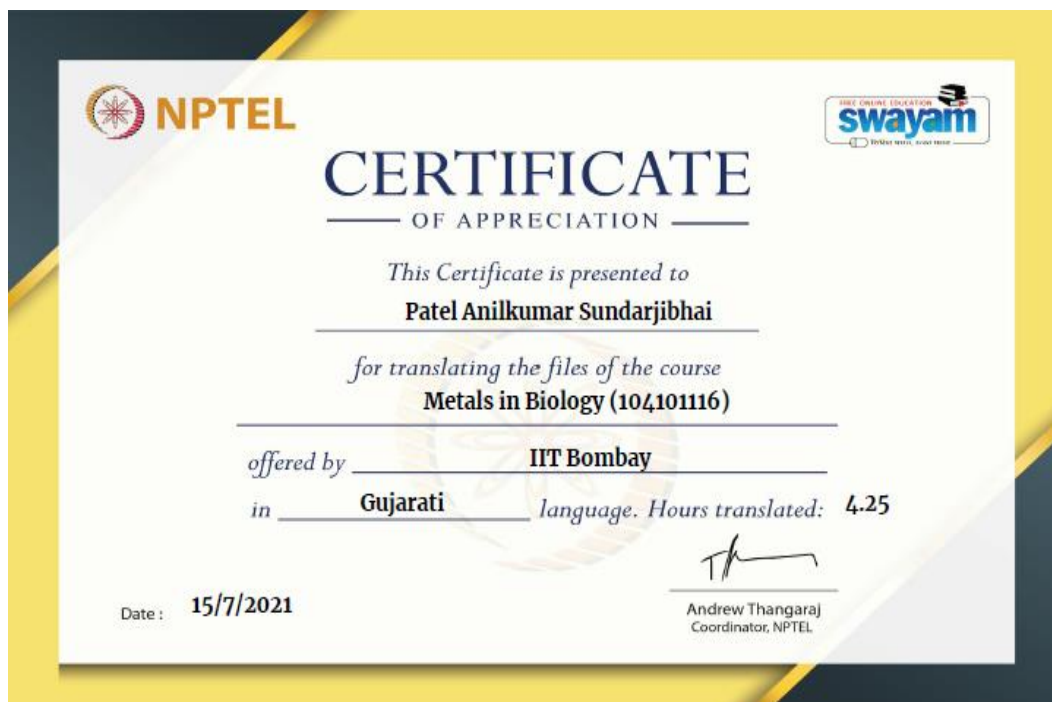




Prof. Subrata kumar majumdar
 Chemical Engineering, IIT Guwahati

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Name	Institute
DR. MAHESH M SAVANT	ATMIYA UNIVERSITY
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Andrew Thangaraj
Coordinator, NPTEL

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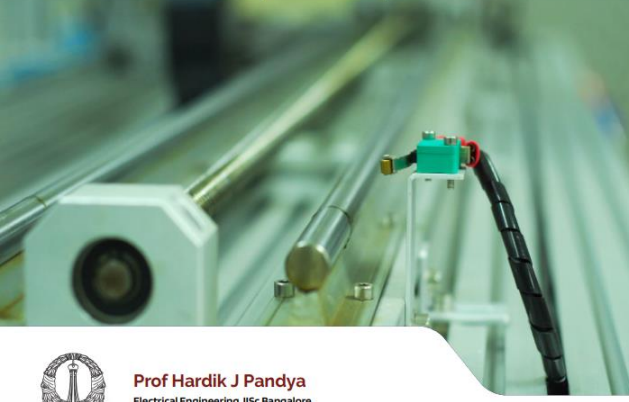
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JIGAR RATNOTTAR	ATMIYA UNIVERSITY
MANAN PATHAK	FREELANCER
SACHIN	ADITYA SILVER OAK OF TECHNOLOGY

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Prof. Amit Basak
 Chemistry and Biochemistry, IIT Kharagpur

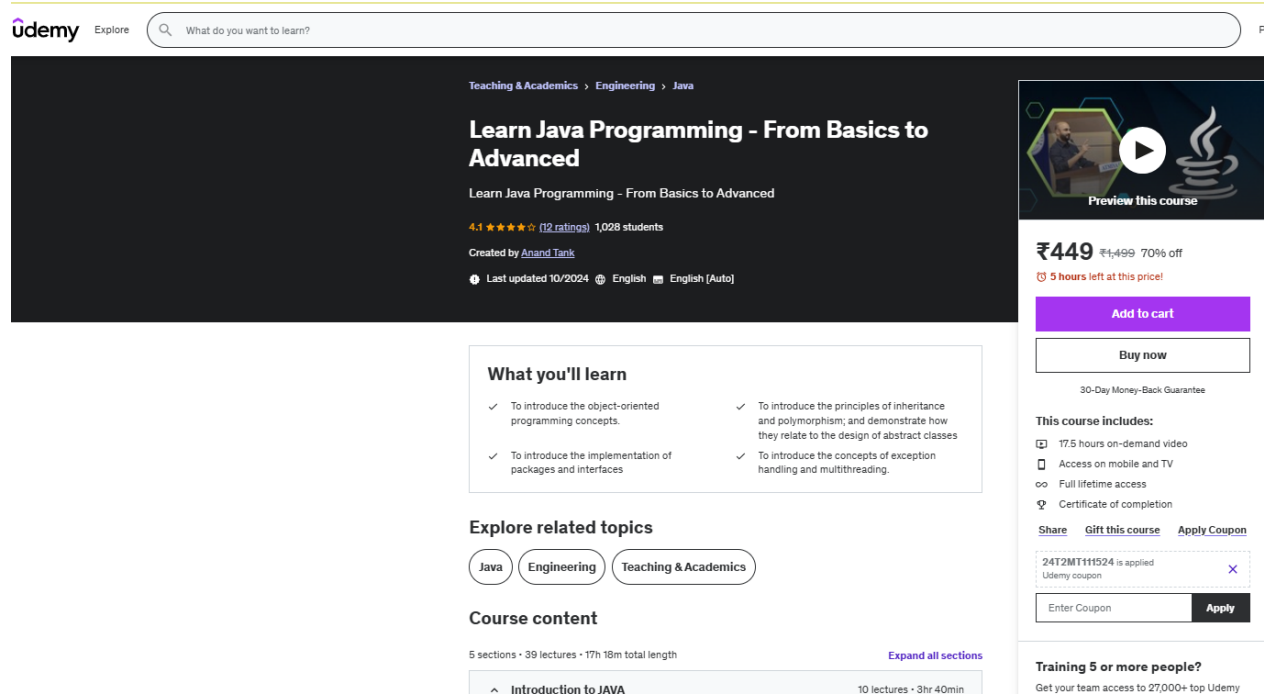
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Faculty members have also developed MOOCs on platforms like Udemy.

Udemy Course Title: Learn Java Programming - From Basics to Advanced



The screenshot shows the Udemy course page for "Learn Java Programming - From Basics to Advanced" by Anand Tank. The course is priced at ₹449, a 70% discount from ₹1,499. It has a 4.1-star rating from 1,028 students and was last updated on 10/2024. The page includes a "What you'll learn" section with four bullet points, "Explore related topics" (Java, Engineering, Teaching & Academics), and "Course content" (5 sections, 39 lectures, 17h 18m total length). A "Preview this course" video player is visible on the right, along with an "Add to cart" button and a "Buy now" button. A coupon code "24T2MT111524" is applied, and a "Training 5 or more people?" section is also present.

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INSTRUCTOR

Dr. Parag Shukla

Associate Professor & HoD, Kaushalya - The Atmiya University

Total students **8,020** Reviews **59**



About me

I am passionate about teaching and learning. My experience has been in teaching for many programming and fundamental courses for more than 10 years.

To be update is a factor that gives me to be prepared for each time whenever I go to the classroom.

My strengths are, disciplined, well prepared, friendly with new technology, interaction with students, a good environment creator, motivator and lifelong learner.

[LinkedIn](#)


[Youtube](#)

My courses (1)




Android App Development- Implementation of Content Providers

Dr. Parag Shukla
4.3 ★★★★★ (59)
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Beginner's Guide to Retool for Non-Technical People

4.4 ★★★★★ (19)

₹1,499






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BAOU Course Title: Statistics



DR. BABASAHEB AMBEDKAR OPEN UNIVERSITY
 (Established by Government of Gujarat)
 'Jyotirmay' Parisar,
 Sarkhej-Gandhinagar Highway, Chharodi, Ahmedabad - 382 481
 E-mail : economics@baou.edu.in Website : www.baou.edu.in





નં.બા(આંચોયુ)/SHSS/Econ/ 1198 /2024
તા 02/05/2024

CERTIFICATE OF VIDEO LECTURE RECORDING
TO WHOMSOEVER IT MAY CONCERN

School of Humanities and Social Sciences, Dr. Babasaheb Ambedkar Open University certifies that Dr. Om Teraiya, Associate professor, department of Science and Humanities, Atmiy University, Rajkot has recorded Video Lectures as per our university syllabus. These video lectures are available on the university's YouTube channel "BAOU Gujarat" as well as VANDE Gujarat TV Channel of the Gujarat Government. Dr. Om Teraiya has delivered 37 video lectures during December 2022 to March 2024 for Statistics course of Bachelor of Arts program.

Dr. Babasaheb Ambedkar Open University wishes him a very bright academic life ahead.



 Dr. Kruti Chhaya
 Program Coordinator, Economics,
 School of Humanities and Social Sciences

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2.2 ગણનો ખ્યાલ અને તેના ઘટકો

સરળ ભાષામાં ગણનો અર્થ સમૂહ કે જથ્થો એવો થાય છે. મનુષ્ય એ સામાજિક પ્રાણી છે. સમાજમાં રહેવા માટે તેને 'જૂથ' કે 'સમુહ' માં રહેવું પડે છે. મનુષ્યોને મિત્રનું જૂથ હોય છે. તે જ રીતે વકીલોનું જૂથ, અધ્યાપકોનું જૂથ, ડોક્ટરોનું જૂથ, પ્રાણીઓનું જૂથ, પુસ્તકોનું જૂથ વગેરે.. આમ, વ્યવહારમાં આપણે સજીવ અને નિર્જીવ વસ્તુઓનું જૂથ અથવા સમૂહ થતું જોઈએ છીએ.

નીચેના કેટલાક ઉદાહરણો પરથી ગણનો ખ્યાલ વધુ સરળતાથી સમજ શકીશું.


1. જુદાં જુદાં પ્રાણીઓનો ગણ
2. જુદાં જુદાં ફળોનો ગણ
3. અમદાવાદ શહેરની કોમર્સ કોલેજોનો ગણ
4. મુંબઈની મીલોનું જૂથ



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2	Abhijeet Joshi	Good Laboratory Practice
3	Mousumi Das	Agricultural Microbiology
4	Reena Ughreja	Pharmaceutical Technology
5	Neha Patel	Environmental Biotechnology
6	Nutan Prakash	Bioinformatics
7	Jigar Ratnottar	Consciousness Development and Value Education
8	Pratik Kikani	Design Thinking
9	Reena Ughreja	Industrial Pharmacy 2
10	Jagniyant Lunagariya	Environmental Studies
11	Govind Vagadiya	Introduction to Sustainable Development Goals

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Bioinformatics	i

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Course Title: Introduction to Sustainable Development Goals

Subject Code: 21AESD101, 23UGLI070

15/11/2024, 19:01

Course: Introduction to Sustainable Development Goals | AU

Introduction to Sustainable Development Goals

[Collapse all](#)

Course Description:

This course provides the definition of the concepts of sustainability and development, the development indices, evolution of UN SDG2030 agenda and its 17 Goals. The course further elaborates the interconnectedness and interdependence of the goals in terms of three dimensions- Social, economic and Environmental and also the 5 aspects namely People, Planet, Prosperity, Peace and Partnership.

Course Purpose:

The course has been designed to create awareness and sensitize the youth towards the aspects of Sustainability and Development by introducing the UN SDG 2030 agenda and its global and national relevance. At the core of the course is to facilitate the understanding of Universal Human Values and be able to appreciate and understand the relationship between Social, Economic and Environmental dimensions of Human living. The course addresses the expectations of the National Education Policy (NEP), 2020 of the Ministry of Education, Government of India as mentioned in clauses 10-19. At the Global level, this course is aligned with the Sustainable Development Goal - 4 on Quality Education contributing towards Target number 4, 4.7 in specific.

Course Credentials:

This course has been designed and delivered by the NEP Task Force on SDG & UHV at Atmiya University. The Faculty members - Dr. Amit Rajdev, Assistant Professor, FoBC; Dr. Meghashree Dadhich, Assistant Professor, FoBC; Dr. Hetal Thaker, Professor, FoS; Dr. Sheetal Tank, Librarian, Library and Learning Centre; Mr. Paras Kalariya, Assistant Professor, FoET; Dr. Preetam Joshi, Assistant Professor, FoS; Dr. Rishikesh Shukla, Assistant Professor, FoS. The course has been supported by the vision and guidance of Dr. Sheela Ramachandran, Pro-Chancellor. The technical support has been provided by Dr. Ripal Ranpara, Assistant Professor, FoS, Mr. Jignesh Ganatra, Head, Computer Centre.

[Announcements](#)

Unit 1: Overview of the concept of Development

Facilitator: Dr. Amit Rajdev


[Unit 1- Video Lecture](#)

Opened: Friday, 22 October 2021, 5:27 PM

Completion

ims.atmiyauni.ac.in/course/view.php?id=623

1/7

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Course: Introduction to Sustainable Development Goals | AU



 [Part - I Development Definitions](#) 

Completion 

 [Part - II Development Definitions](#) 

Completion 

 [Part - III Development Indices](#) 

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[Unit 1 - Lecture Notes](#)

Completion 

[Unit 1 - Glossary](#)

Completion 

 **Unit 2: Overview of the concept of Sustainability**

Facilitator: Dr. Meghashree Dadhich

[Unit 2 - Video Lecture](#)
 Opened: Monday, 25 October 2021, 10:01 AM


Completion 

 [Unit 2 - Session 1 PPT](#) 

Completion 

 [Unit 2 - Session 2 PPT](#) 

Completion 

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15/11/2024, 19:01

Course: Introduction to Sustainable Development Goals | AU

[Unit 2 - Lecture Notes](#) Completion ▾

[Glossary of Unit 2](#) Completion ▾

▼ TEST 1 (Unit 1 & 2)

[TEST 1 \(Unit 1 & Unit 2\)](#) Completion ▾


Opened: Monday, 25 October 2021, 10:03 AM


▼ Unit 3: Introduction to Sustainable Development Goals (SDGs) 2030


Facilitator: Dr. Hetal Thaker


[Unit 3 - Video Lecture](#) Completion ▾

Opened: Tuesday, 2 November 2021, 6:59 PM

 [3.1 - Journey towards MDG](#) Completion ▾

 [3.2 - Millennium Development Goals](#) Completion ▾

 [3.3 - Outcome of MDG](#) Completion ▾


 [3.4 - 2030 Development Agenda](#) Completion ▾

[Episode 3 : Origin Story of Millennium Development Goals | MDGs Origin | SDG Plus](#) Completion ▾

[Transitioning from the Millennium Development Goals to the Sustainable Development Goals](#) Completion ▾

[Transitioning from the MDGs to the SDGs](#) Completion ▾

[Millenium Development Goals for 2015](#) Completion ▾

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15/11/2024, 19:01

Course: Introduction to Sustainable Development Goals | AU

[Handouts of Unit 3](#) Completion ▾

[Glossary Unit 3](#) Completion ▾

Unit 4 : The 17 Sustainable Development Goals (SDGs)

Facilitator: Dr. Sheetal Tank & Mr. Paras Kalariya

[Session 1 - History of SDGs](#)
Opened: Tuesday, 2 November 2021, 7:00 PM Completion ▾

[Session 2 - The Sustainable Development Goals \(SDGs\) Vision and its key characteristics](#)
Opened: Tuesday, 2 November 2021, 7:02 PM Completion ▾

[Session 3 - The Key Elements of Sustainable Development Goals \(SDGs\)](#)
Opened: Tuesday, 2 November 2021, 7:03 PM Completion ▾

[Session 4 - The 17 Sustainable Development Goals - A quick overview](#)
Opened: Tuesday, 2 November 2021, 7:03 PM Completion ▾

[Session 5 - Understanding the 17 SDGs](#) Completion ▾


[Unit 4 - Lecture Notes](#) Completion ▾

[Unit 4 - Part 2 - Video Lecture](#)
Opened: Tuesday, 2 November 2021, 7:04 PM Completion ▾

 [4.1 Key Characteristics of SDGs](#) Completion ▾

 [4.2 the SDGs and the 5 P's](#) Completion ▾

[Glossary](#) Completion ▾

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15/11/2024, 19:01

Course: Introduction to Sustainable Development Goals | AU


Unit 5 : Interconnectedness and Interdependence of SDGs

Facilitator: Dr. Preetam Joshi & Dr. Rishikesh Shukla

[Session 1 - Dimensions of Sustainable Development](#) Completion ▾
 Opened: Thursday, 25 November 2021, 12:44 PM

 [Dimensions of Sustainable Development](#) Completion ▾

[Session 2 - Environmental protection and Preserving Resources](#) Completion ▾
 Opened: Thursday, 18 November 2021, 3:40 PM

 [Environmental protection and Preserving Resources](#) Completion ▾

[Session 3 - Plans of India on SDGs](#) Completion ▾
 Opened: Thursday, 18 November 2021, 3:39 PM

 [India's Plan on achieving the SDGs](#) Completion ▾

 [Environmental protection and Preserving Resources](#) Completion ▾

 [India's Plan on achieving the SDGs](#) Completion ▾

Feedback on the Course


[Feedback of this Online Course](#) Completion ▾

Test 2 (Unit 1 to 5)

[Test 2 \(Unit 1 to 5\)](#) Completion ▾

ASSIGNMENT

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15/11/2024, 19:01

Course: Introduction to Sustainable Development Goals | AU

[Video 1](#) Completion ▾

Opened: Thursday, 18 August 2022, 12:07 PM

[Video 2](#) Completion ▾

[Video 3](#) Completion ▾

[Video 4](#) Completion ▾

[Video 5](#) Completion ▾

[Assignment](#) 👤 Completion ▾

Opened: Thursday, 18 August 2022, 12:06 PM

The great scientist and former President, Dr. APJ Abdul Kalam, wrote in the preface of his autobiography: "Each individual creature on this beautiful planet is created by God to fulfill a particular role." ATMIYA University bestows wisdom and knowledge upon the learner to recognize this particular role. Established on April 13, 2018, under the Gujarat Private University Act 11, 2018, [Read More »](#)

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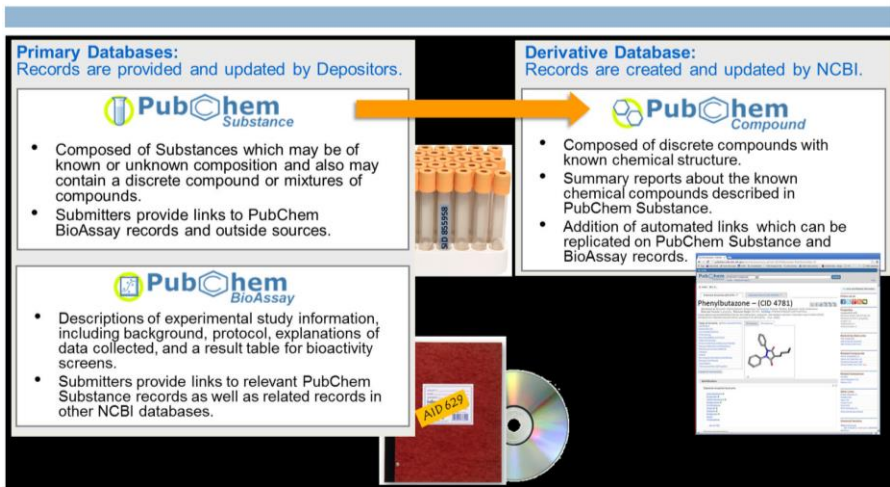
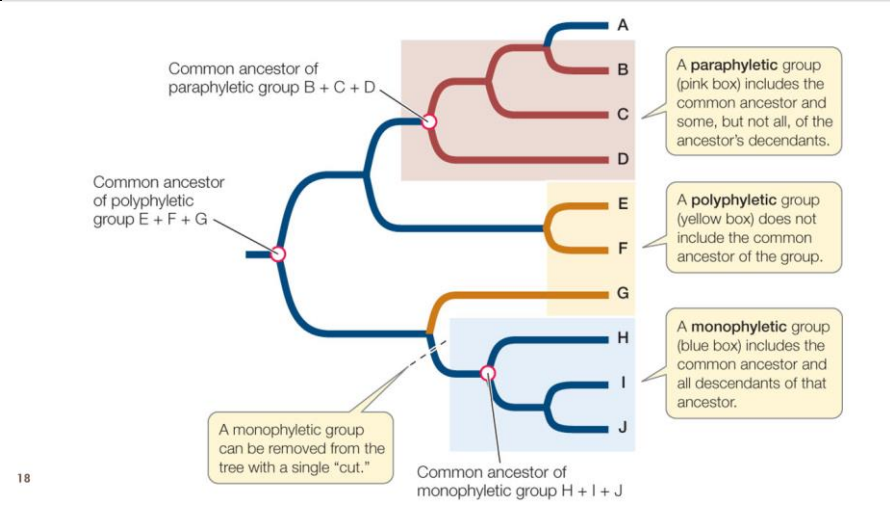
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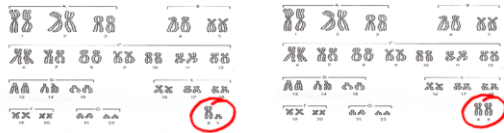


 ATMIYA UNIVERSITY	NAAC – Cycle – 1 AISHE: U-0967	
	Criterion- 2	T, L & E
	KI 2.3	M 2.3.1


4. Powerpoint Presentations developed by Faculty members



Faculty members at Atmiya University have developed a collection of PowerPoint presentations to enhance teaching effectiveness and improve learning outcomes. These presentations cover a variety of topics and are designed to make complex concepts more accessible through clear visuals, structured content, and engaging multimedia elements.

<p>Sampling Theory And Techniques</p>	
<p>Phylogenetic Analysis</p>	 <p>18</p>

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Human Genome Project	<h3 style="text-align: center;">The Human Genome Project</h3> <ul style="list-style-type: none"> □ A global research initiative aimed at mapping and understanding all the genes of the human species. □ The human genome is the complete set of genetic information for humans (<i>Homo sapiens</i>). □ The human genome is by far the most complex and largest genome. □ Its size spans a length of about 6 feet of DNA, containing more than 30,000 genes. □ The DNA material is organized into a haploid chromosomal set of 22 (autosome) and one sex chromosome (X or Y). <div style="text-align: center;">  <p>Male Female</p> </div>
Numerical Integration and Numerical Solution of Ordinary Differential Equations	<div style="text-align: center;"> Numerical Techniques </div> <div style="background-color: #FFD700; padding: 5px; text-align: center;"> Unit- 3: Numerical Integration and Numerical Solution of Ordinary Differential Equations </div> <div style="background-color: #FFD700; padding: 5px; text-align: center;"> Table of contents </div> <ol style="list-style-type: none"> <li style="background-color: #FFC0CB; padding: 5px;">1. Introduction <li style="background-color: #333; color: white; padding: 5px;">Part - I : The methods for solving Numerical Integration <li style="background-color: #FFD700; padding: 5px;">2. Trapezoidal Rule <li style="background-color: #FFC0CB; padding: 5px;">3. Simpson's 1/3 Rule <li style="background-color: #FFD700; padding: 5px;">4. Simpson's 3/8 Rule <li style="background-color: #333; color: white; padding: 5px;">Part - II : The methods for solving ODE numerically <li style="background-color: #FFC0CB; padding: 5px;">5. Euler's Method <li style="background-color: #FFD700; padding: 5px;">6. Runge- Kutta Method of second order <li style="background-color: #FFC0CB; padding: 5px;">7. Runge- Kutta Method of forth order <div style="text-align: right; margin-top: 20px;">  <p>Semester :III Subject : NT Code :18SAHMT301 Unit No. :3</p> <p>Mr. Tushar J Bhatt</p> </div>
Interpolation in Numerical Methods	<div style="text-align: center;"> Numerical Techniques </div> <div style="background-color: #FFD700; padding: 5px; text-align: center;"> Unit- 2: Finite Differences and Interpolation </div> <div style="background-color: #FFD700; padding: 5px; text-align: center;"> Table of content </div> <ol style="list-style-type: none"> <li style="background-color: #90EE90; padding: 5px;">1. Introduction <li style="background-color: #90EE90; padding: 5px;">2. Finite Differences <ol style="list-style-type: none"> (a) Forward Differences (b) Backward Differences (c) Central Differences <li style="background-color: #90EE90; padding: 5px;">3. Interpolation for equal intervals <ol style="list-style-type: none"> (a) Newton Forward and Backward Interpolation Formula (b) Gauss Forward and Backward Interpolation Formula (c) Stirling's Interpolation Formula <li style="background-color: #90EE90; padding: 5px;">4. Interpolation for unequal intervals <ol style="list-style-type: none"> (a) Lagrange's Interpolation Formula <li style="background-color: #90EE90; padding: 5px;">5. Inverse interpolation <li style="background-color: #90EE90; padding: 5px;">6. Relation between the operators <li style="background-color: #90EE90; padding: 5px;">7. Newton Divided Difference Interpolation Formula <div style="text-align: right; margin-top: 20px;">  <p>Semester :III</p> <p>Subject : NT Code :18SAHMT301 Unit No. :2 Topic : Forward Differences</p> <p>Mr. Tushar J Bhatt</p> </div>

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Numerical Methods(Roots of Equations)	<div style="text-align: right; border-bottom: 1px solid black; padding-bottom: 5px;"> Numerical Techniques </div> <div style="border: 1px solid black; padding: 5px;"> <p>Unit- 1: Roots of Equations</p> <p>Table of contents</p> <ol style="list-style-type: none"> 1. Introduction 2. Bisection Method with proof 3. False Position method with proof 4. Successive Approximation method 5. Newton Raphson (N-R)Method 6. Iterative Formulae for finding qth root, square root and reciprocal of positive number N, Using N-R method 7. Secant Method 8. Power Method </div> <div style="text-align: right; margin-top: 10px;">  <p>Semester :III</p> <p>Subject : NT Code :18SAHMT301 Unit No. :1 Topic : Bisection Method</p> <p style="text-align: right; font-size: small;">Mr. Tushar J Bhatt</p> </div>
Types of Research	<h2 style="text-align: center;">1. Basic Research</h2> <ul style="list-style-type: none"> □ Also known as Pure or Fundamental Research. □ It is driven by the curiosity of the scientists to a particular scientific question/ natural rule/ interest. □ It might not have commercial values. Ex: <ul style="list-style-type: none"> □ How do the universe begin? □ What is the mechanism of drug resistance □ What is the role of introns in Eukaryotes. <p style="text-align: center; font-size: x-small;">Dr. Nutan Prakash, Department of Biotechnology, Atmiya University, Rajkot, Gujarat</p>
Writing a Scientific Report	<h2 style="text-align: center;">Writing a Scientific Report</h2> <div style="text-align: center; margin: 20px 0;">  </div> <p style="text-align: right; font-size: small;"> By Dr. Nutan Prakash Vishwakarma CSIR-NET, UGC-NET, ASRB-NET, GSET, GATE Associate Professor, Atmiya University, Rajkot </p>