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2.3.2

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1. **Smart Classrooms**

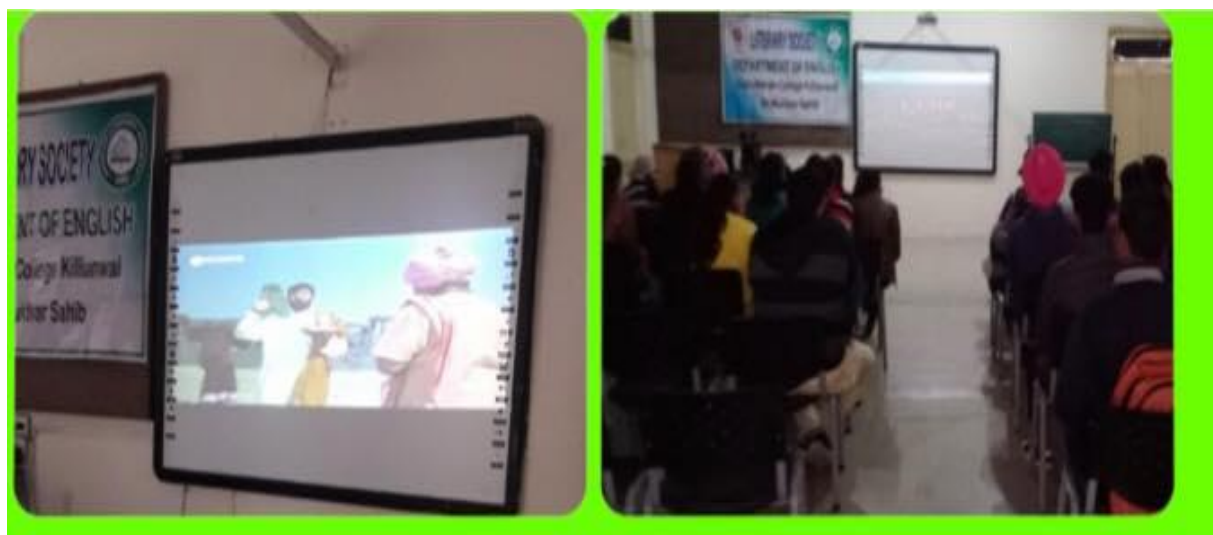➢ **Teachers use ICT enabled tools for effective teaching-learning process.**

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"The Guide" Movie shown to Students by English Literary Society

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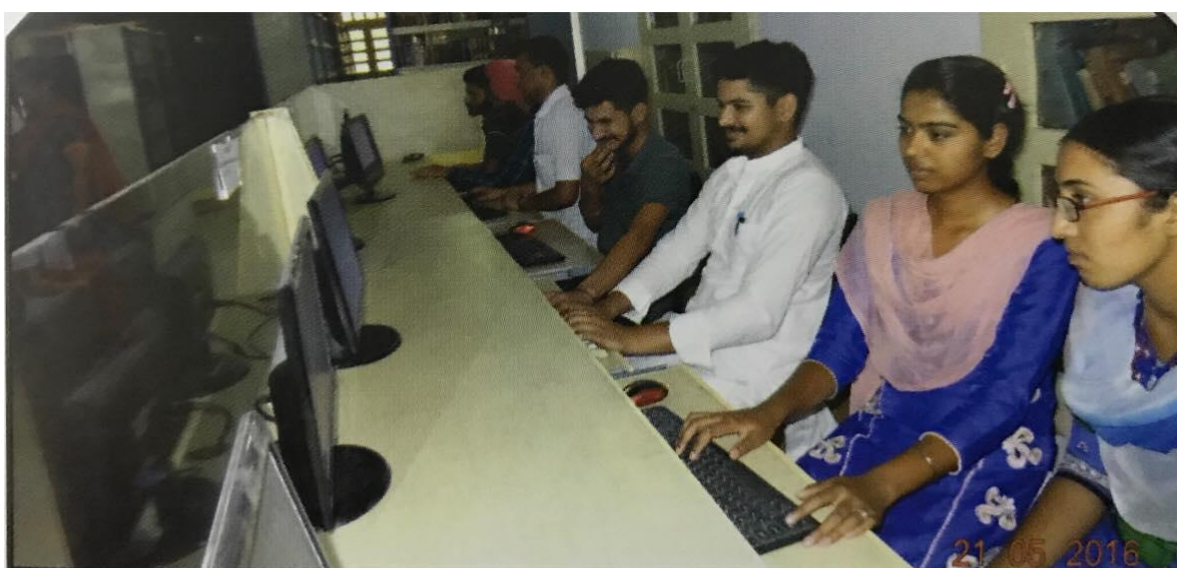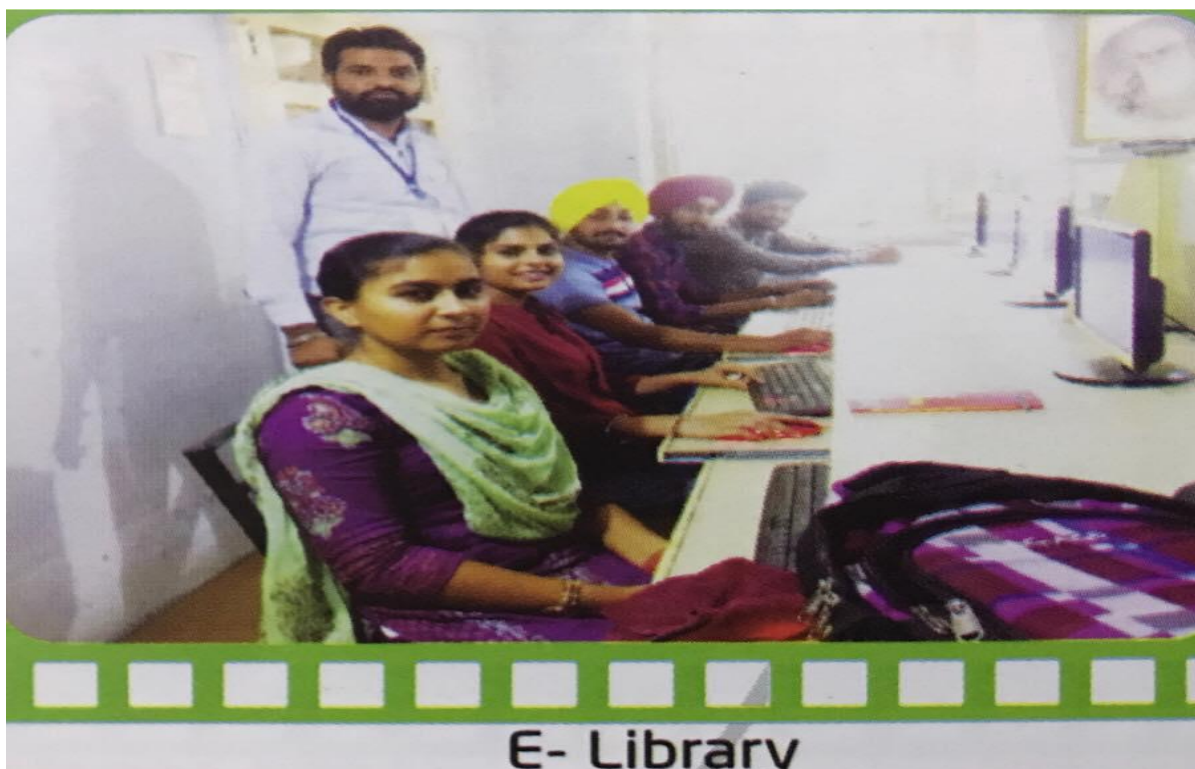Recognized by U.G.C. Under Section 2 (f) & 12 (B) & Permanently Affiliated to Panjab University Chandigarh

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2. <u>E-library</u>

E- Library

3. <u>Computer labs</u>

![Guru Nanak College logo] STRIVE SEEK SERVE · Estd. 1956

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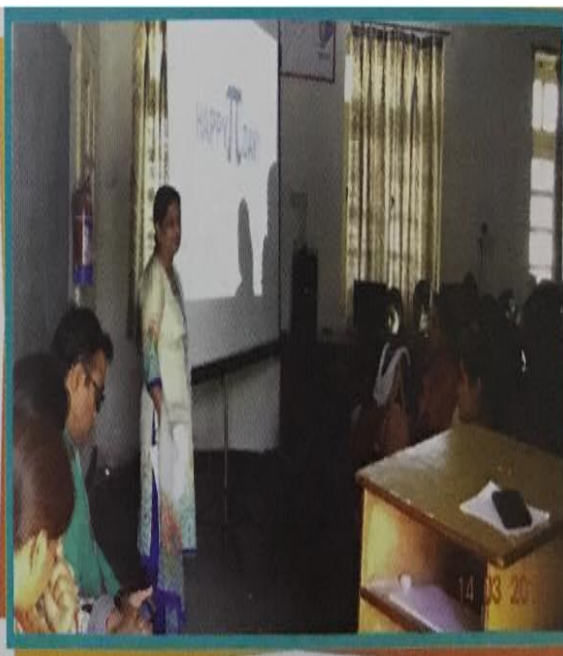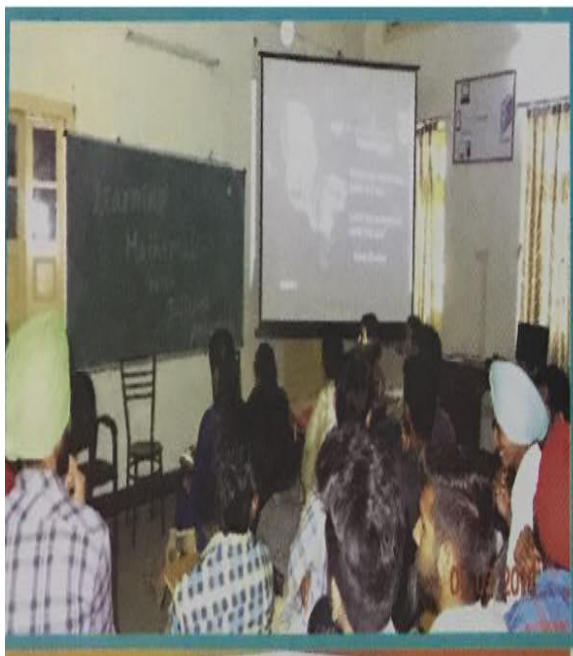
![Guru Nanak College logo] STRIVE SEEK SERVE · Estd. 1956

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4. **Course PPTs by the Teachers**

DEPARTMENT OF MATHEMATICS

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Partial Differential Equation

Examples:

1. $\dfrac{\partial^2 u}{\partial x^2} + \dfrac{\partial^2 u}{\partial y^2} = 0$

u is dependent variable and *x and y* are independent variables, and is partial differential equation.

2. $\dfrac{\partial^4 u}{\partial x^4} + \dfrac{\partial^4 u}{\partial t^4} = 0$

3. $\dfrac{\partial^2 u}{\partial x^2} = \dfrac{\partial^2 u}{\partial t^2} - \dfrac{\partial u}{\partial t}$

u is dependent variable and *x and t* are independent variables

Order of Differential Equation

The **order** of the differential equation is order of the highest derivative in the differential equation.

Differential Equation	ORDER
$\dfrac{dy}{dx} = 2x + 3$	1
$\dfrac{d^2 y}{dx^2} + 3\dfrac{dy}{dx} + 9y = 0$	2
$\dfrac{d^3 y}{dx^3} + \left(\dfrac{dy}{dx}\right)^4 + 6y = 3$	3

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Degree of Differential Equation

The **degree** of a differential equation is power of the highest order derivative term in the differential equation.

Differential Equation	Degree
$\dfrac{d^2y}{dx^2} + 3\dfrac{dy}{dx} + ay = 0$	1
$\dfrac{d^3y}{dx^3} + \left(\dfrac{dy}{dx}\right)^4 + 6y = 3$	1
$\left(\dfrac{d^2y}{dx^2}\right)^3 + \left(\dfrac{dy}{dx}\right)^5 + 3 = 0$	3

Linear Differential Equation

A differential equation is **linear**, if
1. dependent variable and its derivatives are of degree one,
2. coefficients of a term does not depend upon dependent variable.

Example:

1. $\dfrac{d^2y}{dx^2} + 3\dfrac{dy}{dx} + 9y = 0.$

   is linear.

Example: 2.

$\dfrac{d^3y}{dx^3} + \left(\dfrac{dy}{dx}\right)^4 + 6y = 3$

is non - linear because in **2nd term** is not of degree one.

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Example: 3.

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

is non - linear because in **2nd term** coefficient depends on *y*.

Example: 4.

$$\frac{dy}{dx} = \sin y$$

is non - linear because $\sin y = y - \frac{y^3}{3!} + -$ is non – linear

1st – order differential equation

1. Derivative form:

$$a_1(x)\frac{dy}{dx} + a_0(x)y = g(x)$$

2. Differential form:

$$(1 + x)dy - ydx = 0$$

3. General form:

$$\frac{dy}{dx} = f(x, y) \qquad \text{or} \qquad f(x, y, \frac{dy}{dx}) = 0.$$

Differential Equation Chapter 1

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First Order Ordinary Differential equation

$$f(x, y, \frac{dy}{dx}) = O.$$

$$\frac{dy}{dx} = f(x, y) \qquad \text{Derivative form}$$

$$M(x, y)dx + N(x, y)dy = 0 \qquad \text{Differential form}$$

$$a_1(x)\frac{dy}{dx} + a_0(x)y = g(x) \qquad \text{Standard form}$$

$$a_1(x)y' + a_0(x)y = g(x) \qquad \text{Standard form}$$

$$\frac{dy}{dx} + P(x)y = Q(x) \qquad \text{First order linear differential equation form}$$

Differential Equation Chapter 1   9

Second order Ordinary Differential Equation

$$f(x, y, \frac{dy}{dx}, \frac{d^2y}{dx^2}) = O.$$

$$\frac{d^2y}{dx^2} = f(x, y, \frac{dy}{dx})$$

$$a_2(x)\frac{d^2y}{dx^2} + a_1(x)\frac{dy}{dx} + a_0(x)y = g(x)$$

$$a_2(x)y' + a_1(x)y' + a_0(x)y = g(x)$$

Differential Equation Chapter 1   10

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nth − order linear differential equation

1. nth − order linear differential equation with constant coefficients.

$$a_n \frac{d^n y}{dx^n} + a_{n-1} \frac{d^{n-1} y}{dx^{n-1}} + \ldots + a_2 \frac{d^2 y}{dx^2} + a_1 \frac{dy}{dx} + a_0 y = g(x)$$

2. nth − order linear differential equation with variable coefficients

$$a_n(x) \frac{dy}{dx} + a_{n-1}(x) \frac{d^{n-1} y}{dx^n} + \ldots + a_2(x) \frac{d^2 y}{dx^2} + a_1(x) \frac{dy}{dx} + a_0(x) y = g(x)$$

Differential Equation Chapter 1

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Solution of Differential Equation

Differential Equation Chapter 1

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Examples

y=3x+c , is solution of the 1st order differential equation $\dfrac{dy}{dx} = 3$ c_1 is arbitrary constant.

As is solution of the differential equation for every value of c_1, hence it is known as **general solution.**

Examples

$$y' = \sin(x) \Rightarrow y = -\cos(x) + C$$

$$y'' = 6x + e^x \Rightarrow y' = 3x^2 + e^x + C_1 \Rightarrow y = x^3 + e^x + C_1 x + C_2$$

Observe that the set of solutions to the above 1st order equation has 1 parameter,

while the solutions to the above 2nd order equation depend on two parameters.

Families of Solutions

Example $9yy' + 4x = 0$

Solution $\int (9yy' + 4x)\,dx = C_1 \Rightarrow \int 9y(x)y'(x)\,dx + \int 4x\,dx = C_1$

$$\Rightarrow \int 9y\,dy + 2x^2 = C_1 \Rightarrow \frac{9y^2}{2} + 2x^2 = C_1 \Rightarrow 9y^2 + 4x^2 = 2C_1$$

This yields $\dfrac{y^2}{4} + \dfrac{x^2}{9} = C$ where $C = \dfrac{C_1}{18}$.

Observe that given any point (x_0, y_0), there is a unique solution curve of the above equation which curve goes through the given point.
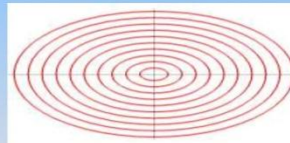
The solution is a family of ellipses.

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Origin of Differential Equations Solution

1.Geometric Origin

1. For the family of straight lines

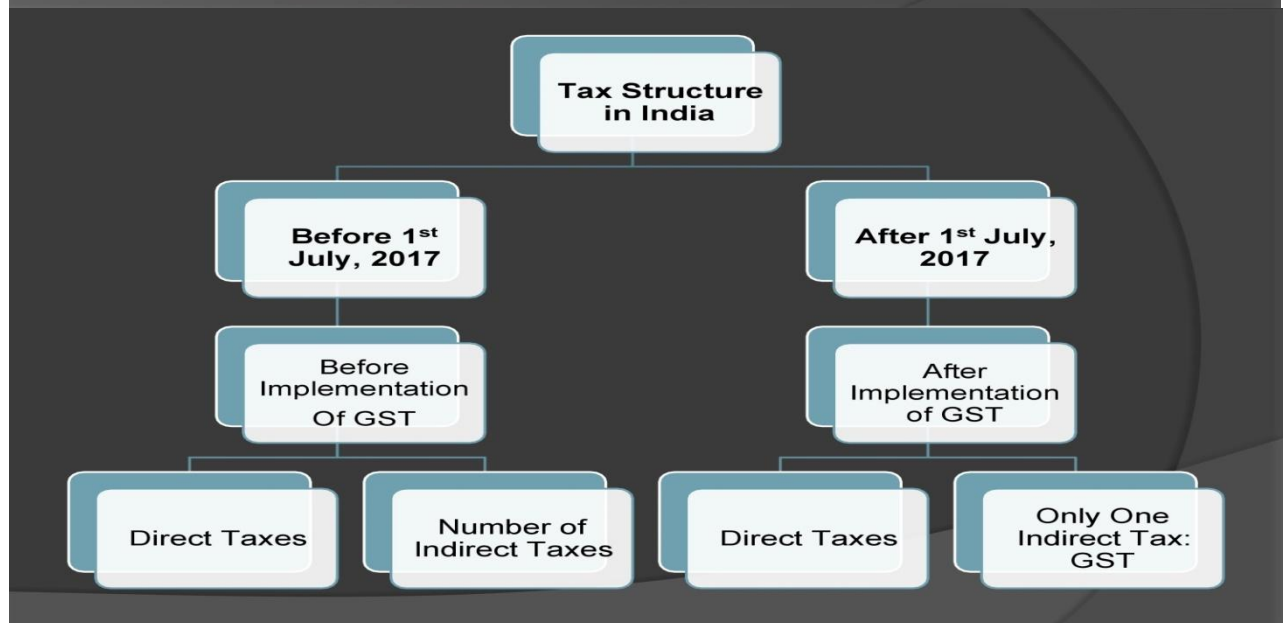$$y = c_1 x + c_2$$ the differential equation is
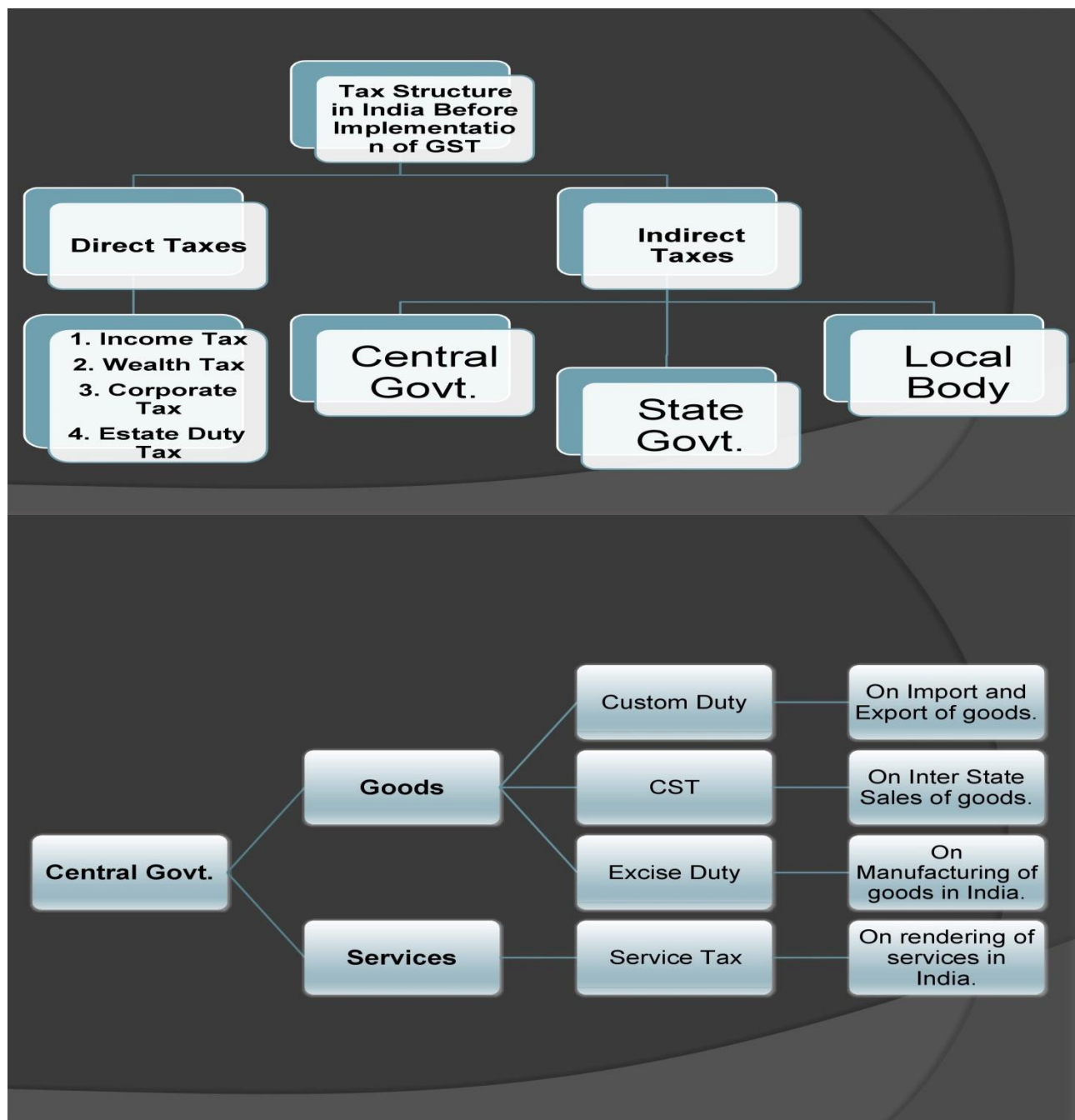
$$\frac{d^2 y}{dx^2} = 0$$

2. For the family of curves

A. $y = ce^{\frac{x^2}{2}}$ the differential equation is $\dfrac{dy}{dx} = xy$

B. $y = c_1 e^{2x} + c_2 e^{-3x}$

   the differential equation is $\dfrac{d^2 y}{dx^2} + \dfrac{dy}{dx} - 6y = 0$ 15

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AN EXAMPLE TO UNDERSTAND THE STRUCTURE OF INDIRECT TAXES :

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DUAL – GST STRUCTURE IN INDIA

Tax Levied

On Supply of Goods or Services or Both

Within the State / UT

Between the States / UTs

Intra State Supply

Intra UT Supply

Integrated GST (IGST) shall be levied on Inter State or Inter UT Supply of Goods or Services or Both.

Dual GST

Dual GST

i.e. **CGST and SGST** shall be levied on Intra state supply of goods or services or both

i.e. **CGST and SGST** shall be levied on Intra UT supply of goods or services or both

Four Types of Taxes under GST
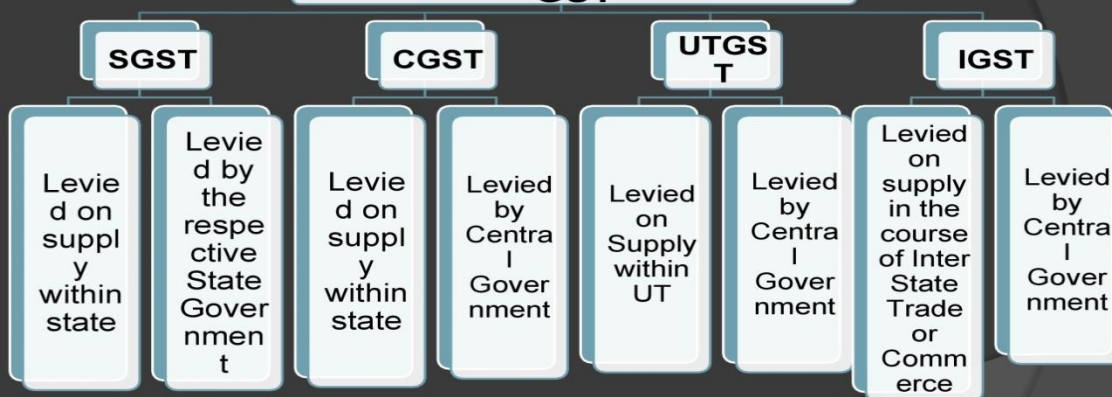
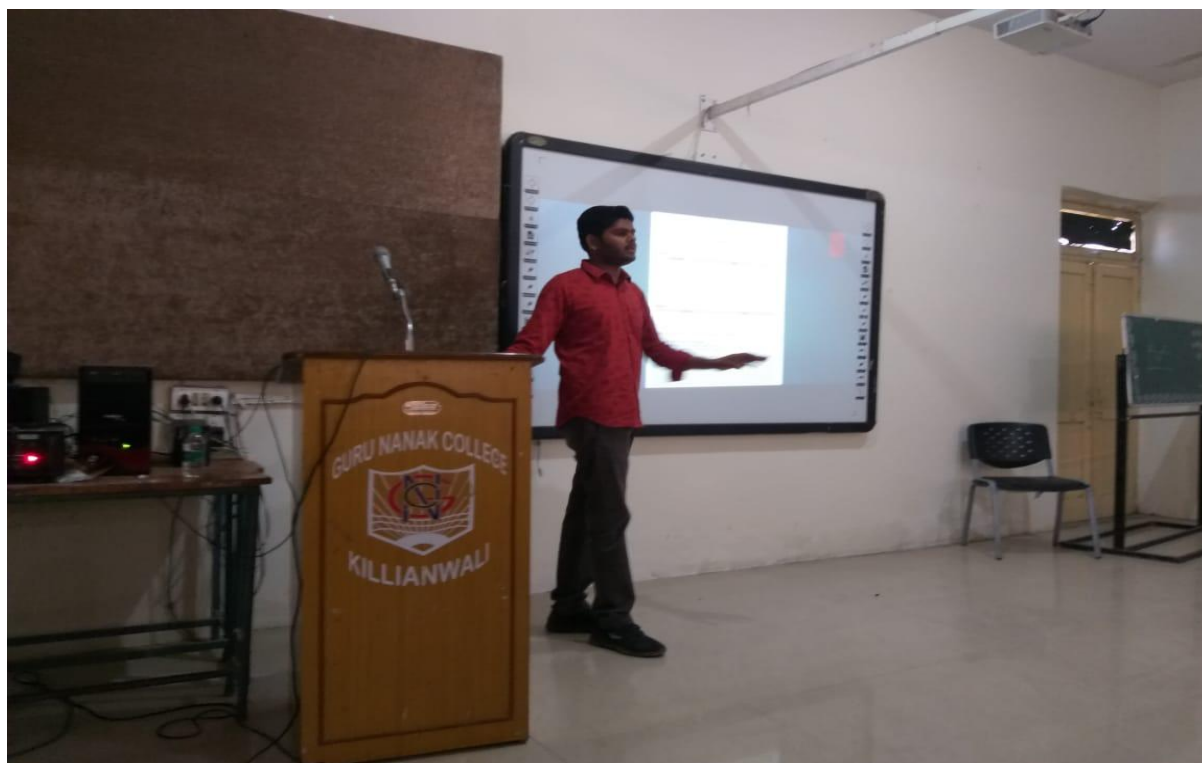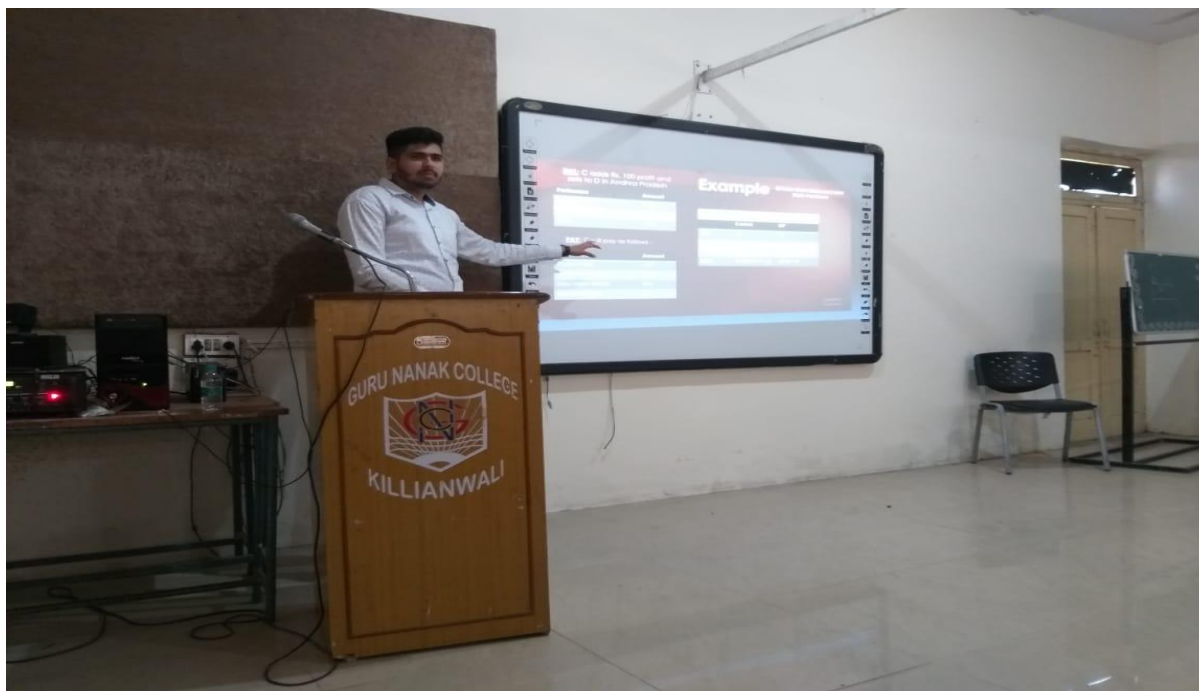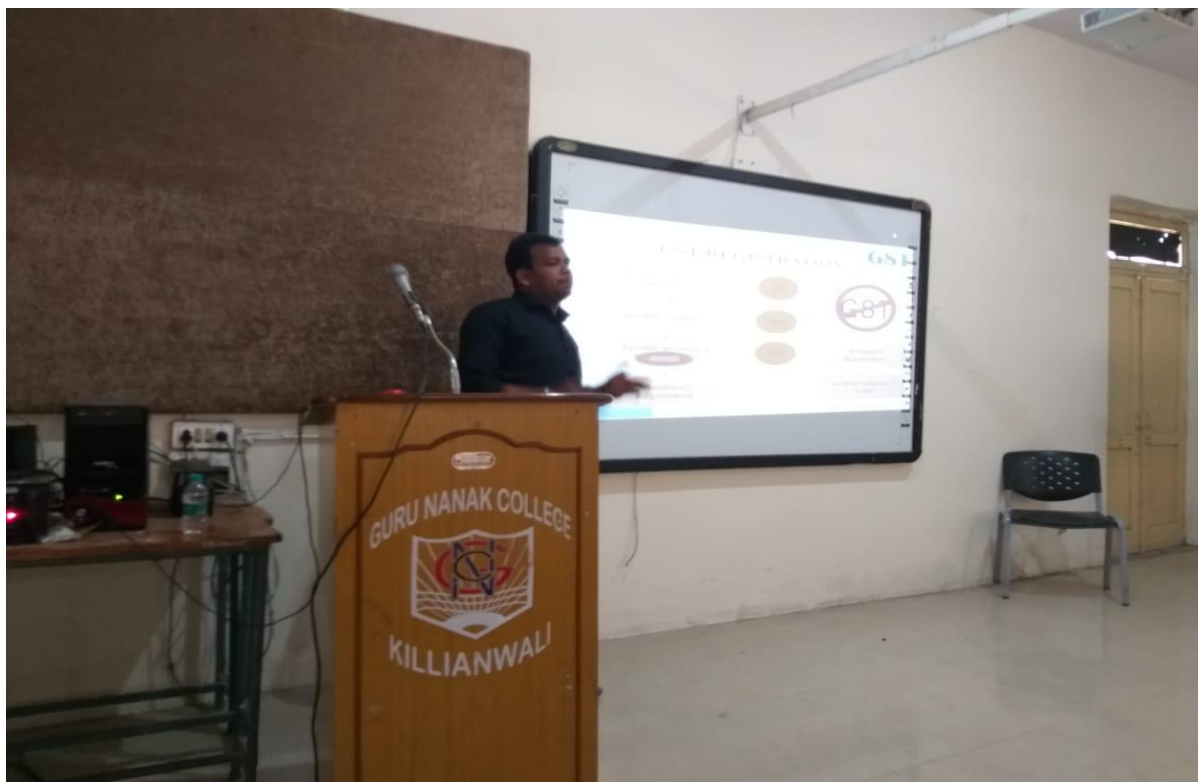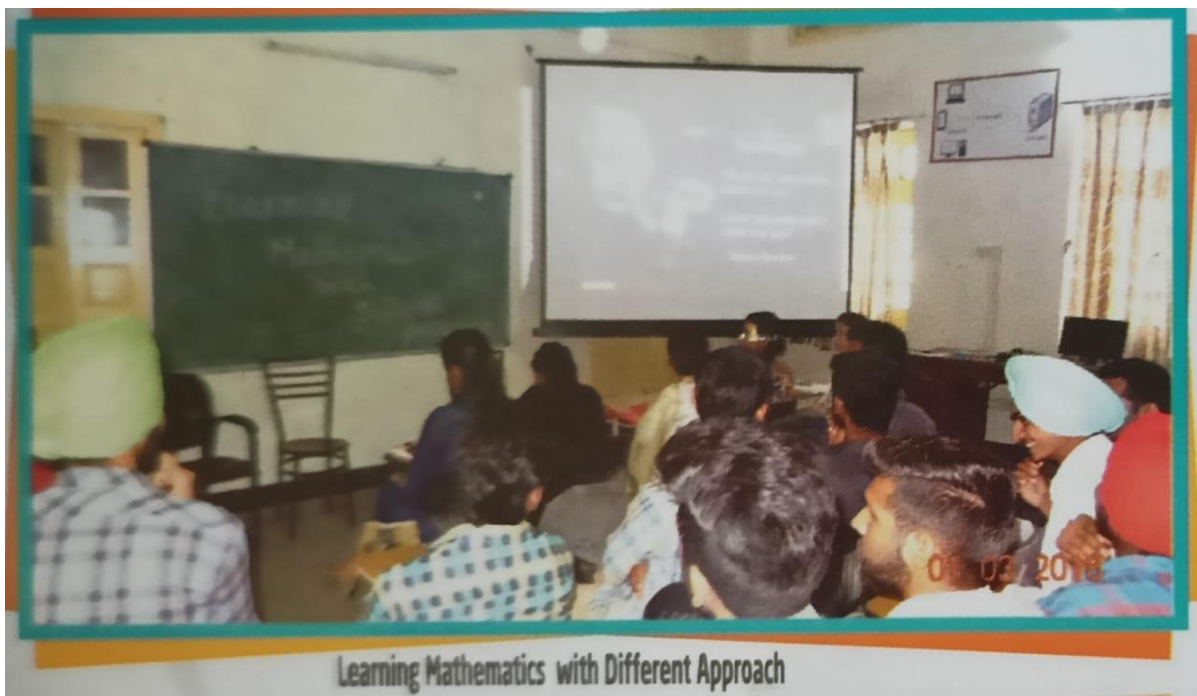| SGST		CGST		UTGST		IGST	
Levied on supply within state	Levied by the respective State Government	Levied on supply within state	Levied by Central Government	Levied on Supply within UT	Levied by Central Government	Levied on supply in the course of Inter State Trade or Commerce	Levied by Central Government

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UNDERSTANDING GST WITH ILLUSTRATIONS

1. A manufacturer from Punjab sold goods to a buyer in Punjab i.e. supply of goods is done Intra State (Within the same state). The detail are as follow :
   Cost Price   Rs.100
   Profit Margin   Rs.10
   Excise Duty @ 12.5% and VAT @ 12.5%

Solution. As per the previous Indirect Tax System :

Particular	Rs.
Cost Price of Manufacturer	100
Add: Profit Margin	10
	110
Add: Excise Duty @ 12.5% of 110 (Levied on Manufacturing)	13.75
	123.75
Add: VAT @ 12.5% of 123.75 (Levied on Sale within Punjab)	15.47
Total S.P.	139.22

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As Per GST Regime

Under the GST Regime, on Intra state supply of goods or services, dual tax shall be levied i.e. CGST and SGST. No other taxes to be levied.

Manufacturer / Supplier Punjab	➡	Supplies goods (Inter State Supply)	➡	Buyer/ Recipient Punjab

Particular	Rs.
Cost Price of Manufacturer	100
Add: Profit Margin	10
	110
Add: 10% CGST of 110	11
Add: 10% SGST of 110 (Both CGST and SGST are levied on the base price, which avoids double taxation)	11
Total S.P.	132

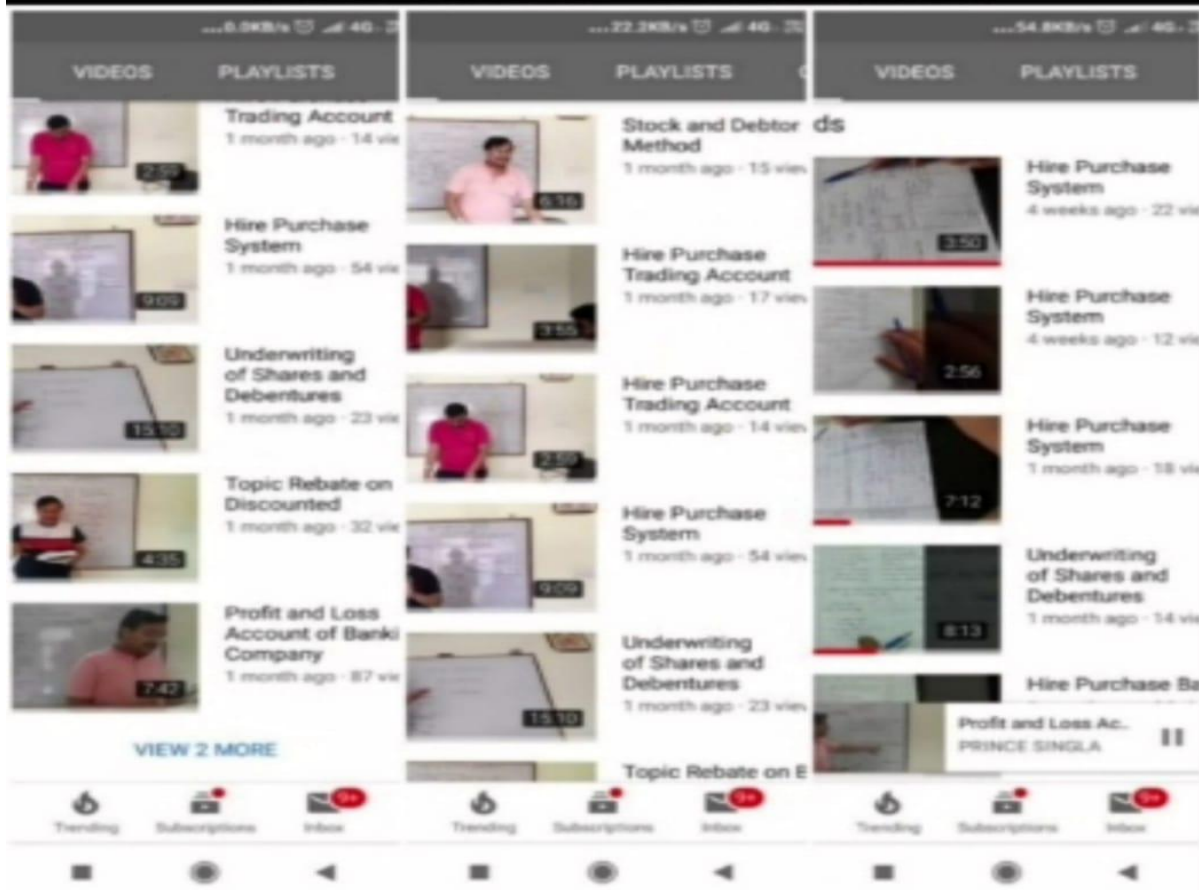**Assumed : CGST and SGST is 10%**

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Difference between previous system & GST regime:

(a) No Cascading effect under GST- under the previous Indirect Tax System, VAT is levied on price which includes Excise Duty. This leads to double taxation. This is removed under GST, both CGST and SGST are levied on base price of 110.

(b) S.P is less under GST.

(c) Total tax paid under GST is less (22 in comparison to 29.22 under present system (13.75 + 15.47 = 29.22)).
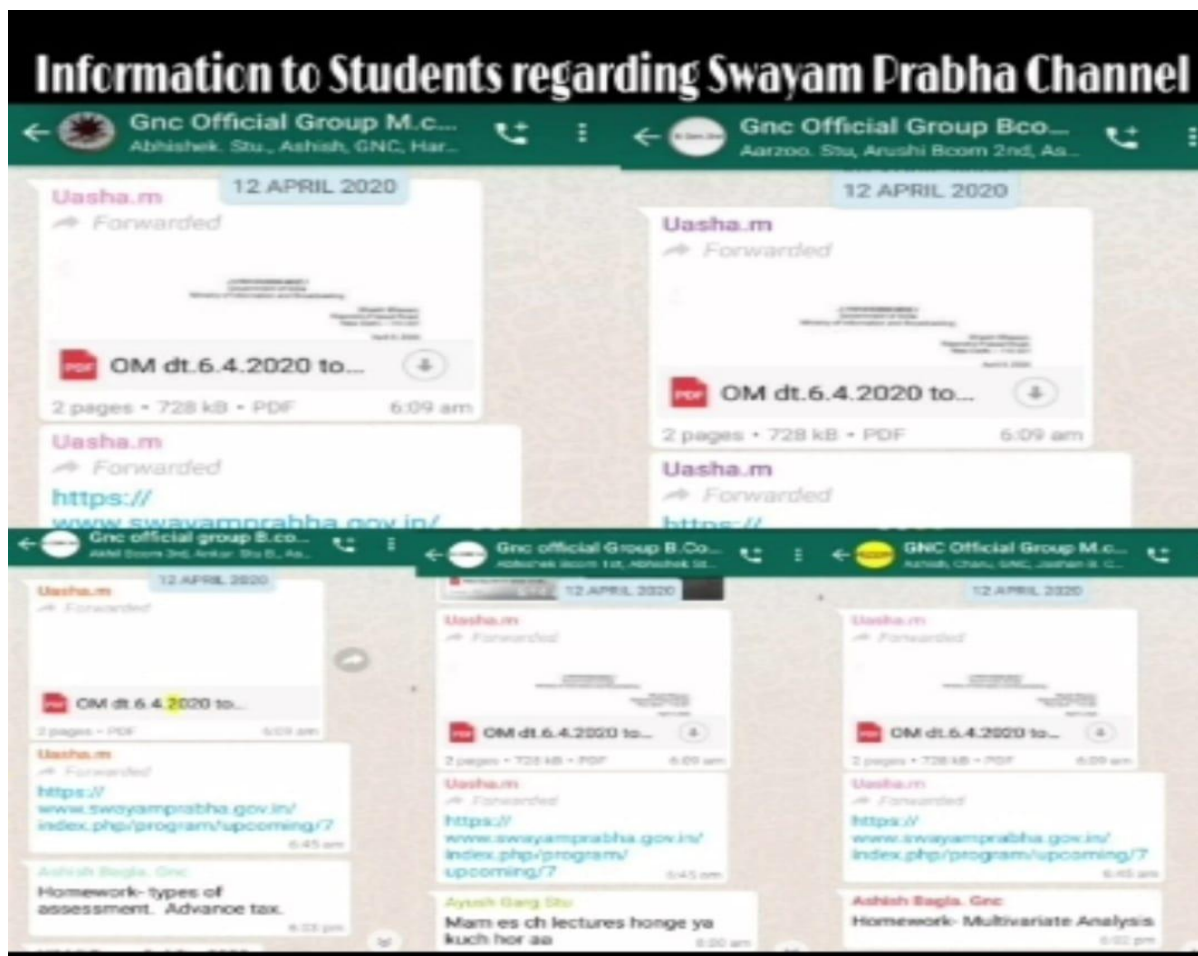
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5. Student Learning through ICT Enabled Tools

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6. ICT usage by the Teachers

Learning Mathematics with Different Approach

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Learning English by Audio Visual Aids by English Literary Society

"The Guide" Movie shown to Students by English Literary Society

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Online Lectures through YouTube Channel.

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Information to Students regarding Swayam Prabha Channel

- **Supplementary online learning material**

J-11013/5/2020-MUC.I
Government of India
Ministry of Information and Broadcasting

Shastri Bhawan,
Rajendra Prasad Road,
New Delhi – 110 001

April 6, 2020

Office Memorandum

Subject: Suggestions relating to communication in electronic media to combat COVID-19

The undersigned is directed to refer to your letter No.CSO/2020/38 dated 3rd April, 2020 on the above subject and to state as under:-

(i)   The Government of India has been proactively engaging with all media (print, TV and Radio) for disseminating all important decisions/announcements relating to COVID-19 which are being carried out by the various media platforms on a regular basis. Further, the official Twitter handle of the Ministry of Information and Broadcasting and the Press Information Bureau (PIB) including the regional handles of PIB are regularly uploading all relevant information and material for combating COVID-19.

(ii)   With regard to the issue of facilitating online education by providing dedicated channels for students of schools and colleges, it is informed that the following 32 Swayam Prabha TV channels are on air by Prasar Bharati:-

List of 32 Swayam Prabha TV Channels

Channel	Provider	Subject
Channel 01:	CEC/UGC:	Humanities- 1, Language and Literature
Channel 02:	CEC/UGC:	Humanities- 2, Arts, History, Philosophy and related Subjects
Channel 03:	CEC/UGC:	Social Science -1, Sociology, Political Science and related subjects
Channel 04:	CEC/UGC:	Social Science - 2, Education, Psychology, Home Science and related subjects
Channel 05:	CEC/UGC:	Social Science - 3, Management, Library Science, Information Science and related subjects
Channel 06:	CEC/UGC:	Social Science - 4, Law, Legal Studies, Human Rights and related subjects
Channel 07:	CEC/UGC:	Economics, Commerce and Finance

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Channel 08: CEC/UGC:	Physical sciences, Mathematics, Physics, Chemistry and related Subjects
Channel 09: CEC/UGC:	Life Sciences, Botany, Zoology, Bio-Science and related subjects
Channel 10: CEC/UGC:	Applied Sciences, Allied Physical and Chemical sciences and related subjects
Channel 11: NPTEL:	Chemical Engineering, Chemistry and related Subjects
Channel 12: NPTEL:	Civil Engineering and related subjects
Channel 13: NPTEL:	Computer Science and Engineering
Channel 14: NPTEL:	Electrical engineering, Electronics and Communication Engineering and related subjects
Channel 15: NPTEL:	Engineering Sciences and general subjects for engineering
Channel 16: NPTEL:	Humanities, Social Sciences and Management
Channel 17: NPTEL:	Mechanical Engineering and related subjects
Channel 18: NPTEL:	Mathematics, Physics, Metallurgy and related subjects
Channel 19: IIT PAL:	Biology
Channel 20: IIT PAL:	Chemistry
Channel 21: IIT PAL:	Mathematics
Channel 22: IIT PAL:	Physics
Channel 23: IGNOU:	Liberal Arts and Humanities
Channel 24: IGNOU:	Agriculture, Vocational and Allied Sciences
Channel 25: IGNOU:	Culture
Channel 26: IGNOU:	State Open Universities' programs
Channel 27: NIOS:	Secondary School Education
Channel 28: NIOS:	Higher Secondary School Education
Channel 29: QEEE:	QEEE 1 (Live classes in Engineering and Technology)
Channel 30: NPTEL:	Mathematics
Channel 31: NCERT:	School and Teacher Education
Channel 32: IGNOU and NIOS:	Teacher Education

(Shailesh Gautam)
Under Secretary to the Govt of India

Government of Punjab
(Kind attn.: Shri Karan A Singh, Chief Secretary)
Punjab Secretariat,
Chandigarh – 160 001

2

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Guru Nanak College
Killianwali (Sri Muktsar Sahib)
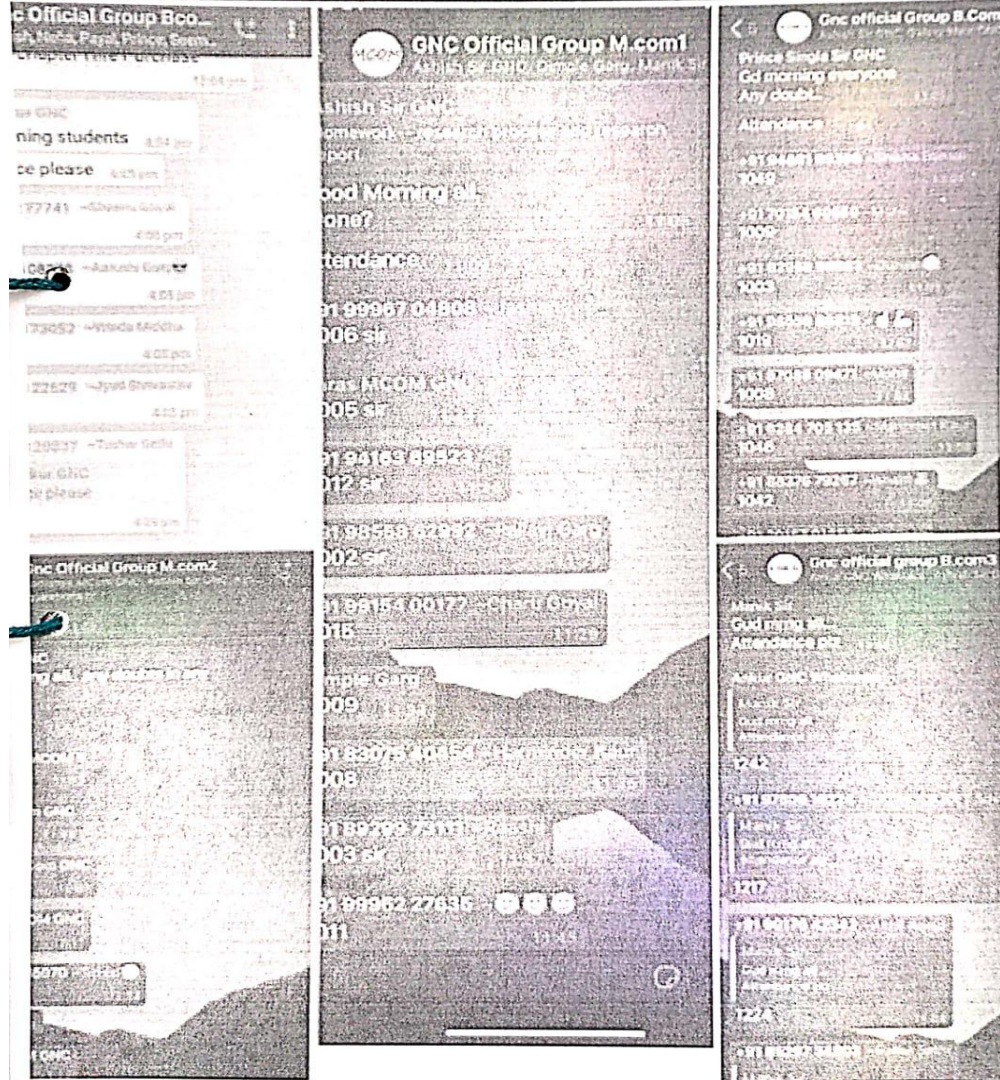
![Guru Nanak College Logo] STRIVE SEEK SERVE

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Good evening dear stud
Today's test is as given

CamScanner 04-27-2

2 pages · PDF

Today prepare topic "Pure
maximization and minimiz
problems" from chapter so

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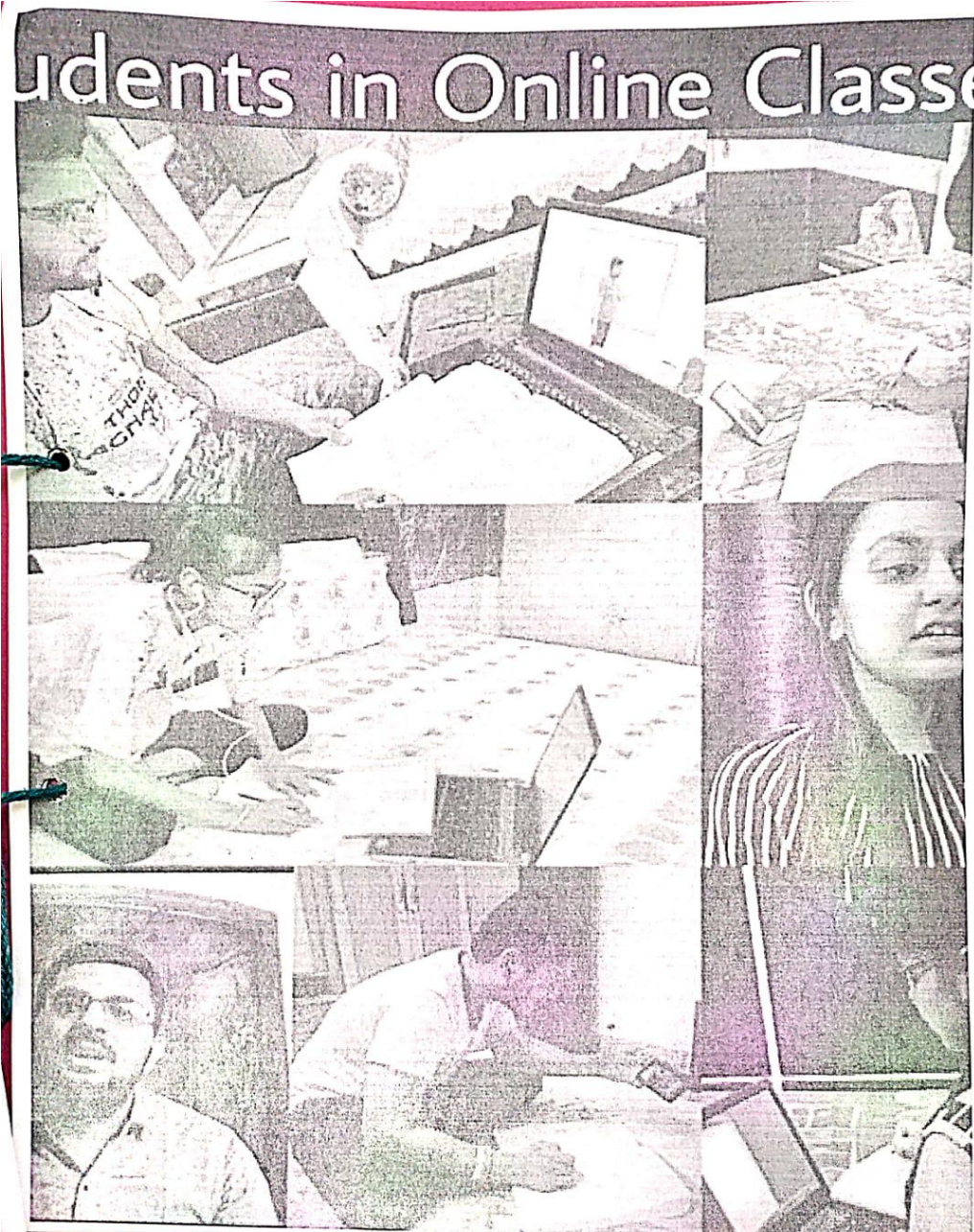**NAAC Accredited Grade "B"**

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aching through Case Study Method aft completion of syllabus.

GNC Official Grou... Ashish, Charu, GNC, Mani...

Gnc Official Group M.com2 Abhishek, Ashna M., Harsimran, kanika...

11 MAY 2020

1 MAY 2020

Good evening students
Hope all of you are fine with your families. As it has already been made clear to you that syllabus has been completed and if any student has any doubt he or she can call to the concerned teacher so now we are making change in the setting of group by only making admins eligible to send the messages. But still you can make personal phonecall

First of all, a very good morning to Today, as you know a new month I started, and i want you to please b more attentiveness from today its So after giving attendance, you ca your doubts first and then i will be the new thing which is case study approach.

+91 98553 11966 ~Miss Soni

Good morning sir   12:01

2111   12:01

you will be proud of Indian project management

Ok sir   13:08

Ashish Sir
Homework–
Find a case study of Best Compensation/Remuneration Practices in India...   12:09

Good evening students
As you all know syllabus of each subject is complete so teachers want to give you time for self study. Still if any student has any problem in any subject he or she can ask the concerned teacher as per time table
All the best to all the students
16:29

Simran Soni

Semeesh joined using this

Good evening student
As you all know syllab subject is complete so want to give you time f study. Still if any stude problem in any subject can ask the concerned per time table
All the best to all the st

+91 70152 56588   ~P

You
Good evening students
As you all know syllabus of eac subject is complete so teacher

Ok mam

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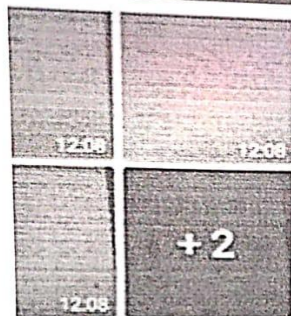
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Online Attendance of the students.

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nline test of the student

I done my test at late night

good afternoon 12:08

ques. Thik hai 13:44

At some points you are wrong
*Don't use abbrevations
*Financial leverage is not linked with operating profit
*Tax rate point not defined

After checking tests there are instructions for all of you - -
1. Use time as allowed in fina for each question.
2. Write distinction in T form.
3. Write few lines in the begin introduction and few lines at as conclusion.
4. Write all points to get good
5. Don't use write your own abbreviations like b/w.
6. As we use Sales of Goods no. of times. First letter of Ac be in Capital form.

All the students are advised t

TED APRIL 11, 2020
:CTORAL ASPECTS OF
:AN ECONOMY
:R: NEHA THAKUR
gh today there are many sources still India is striving hard to meet ns of the farmers." Explain.
:orrect answer you had to cover

ultural credit
sources of agricultural credit
:ultural credit

IF STUDENTS WHO L-
:NSWERS
r answer was very good. Good nall mistake that questions talks things which are. sources of it and problems in acquiring it. You explained the problems needed to explain sources in

[AL: Your answer was perfectly vered all the areas of the question. you need to do is work on your some grammatical errors.
HA: Overall your answer was d not to mention merits and erative societies. Also, you should per heading for "Sources of dit", Work on your presentation.

2 MARCH 2020

Messages to this chat and calls are now secured with end-to-end encryption. Tap for more info.

Mohit Singla Gnc Bcom 1's security code changed. Tap for more info.

TODAY

CamScanner 04-14-2020 16...

2 pages • PDF   4:27 pm

1051   4:39 pm

Correct 15/15

Usha Mam GN. colg
Good evening students any doub
Tomorrow you will prepare mathi
estimating working capital requi

Ok mam

+91 86072 42464

Usha Mam GN. colg
Good evening students any doub
Tomorrow you will prepare mathi
estimating working capital requi

Ok mam

Ch Assessr

Good Evening all. This tel
be much impressive. Ples
it in negative way. the sta
attempted this test have
found this one to be impr
more marks from examin
view.

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Data in official groups of UG classes.

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Notice regarding Group creation of different Classes