

## **2.3 Teaching-Learning Process**

### **2.3.2 Teachers use ICT Enabled Tools for Effective Teaching Learning Process**



(Accredited by NAAC)

Jawahar Education Society's,  
**INSTITUTE OF TECHNOLOGY,  
MANAGEMENT & RESEARCH, NASHIK.**

(Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to Savitribai Phule Pune University)

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# Teaching through Power Point Presentations

**Department:** Information Technology

**Class:** SEIT

**Sem:** I

**Subject:** Object Oriented Programming

## UNIT-01

### Foundations of Object Oriented Programming

Subject : Object Oriented Programming

Class : SEIT

## Foundations of Object Oriented Programming

- **Introduction to OOP:** Software Evolution, Introduction to Procedural, Modular, Object-Oriented and Generic Programming Techniques, Limitations of Procedural Programming, Need of Object Oriented Programming.
- **Fundamentals of Object Oriented Programming:** Objects, Classes, Data Members, Methods, Messages, Data Encapsulation, Data Abstraction and Information Hiding, Inheritance, Polymorphism, Static & Dynamic Binding, Message Passing
- **Case Study:** Model a real world scenario ( vehicle class, fruit class, student management in university etc.) using Object Oriented Paradigm

## Software Evolution

- Machine Language [ 1, 0 ]
- Assembly Language
- Procedure-Oriented
- Object-Oriented Programming

## Introduction to Procedural

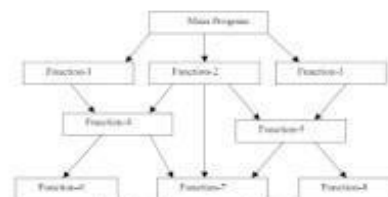


Fig. 1.1 Typical structure of procedural oriented programs.

## Introduction to Procedural



## Introduction to Procedural [ characteristics ]

- Emphasis on doing the things (algorithms).
- Large programs are divided into smaller programs known as functions.
- Most of the functions share global data.
- Employs top-down approach in program design.

**Department:** Information Technology

**Class:** SEIT

**Sem:** I

**Subject:** Computer Graphics

# Computer Graphics

## Unit 1

Computer Graphics Basic, OpenGL and Line, Circle Drawing

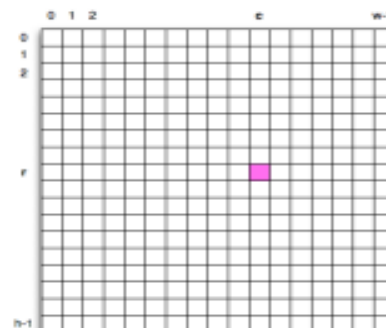
Class : SEIT

## Graphics Primitives

- Computer graphics primitives are basic geometric shapes or elements that serve as the building blocks for creating more complex images in computer graphics.
- Some common computer graphics primitives include:
  - **Points:** These are single pixels that represent a location in space.
  - **Lines:** Lines are sequences of connected pixels that extend in a particular direction. They can be defined by two endpoints or by a point and a direction vector.
  - **Line Segments:** These are finite sections of lines that have a definite starting and ending point.

## Basic Concepts

- **Screen Size :** The physical dimensions of a screen. It is the length, in inches, of the screen from one corner to the diagonal corner.
- **Pixel:** Screens display images through pixels. A pixel, pel or dots, or picture element is a physical point in a raster image, or the smallest addressable element in raster display device; so it is the smallest controllable element of a picture represented on the screen.
- Pixels are arranged in a grid to form images on screens, such as computer monitors, TV's, and mobile devices.
- Pixels are not always the same size from device to device.

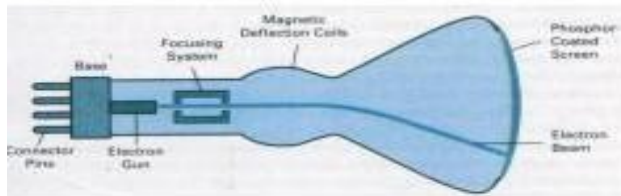


## Contents

- Introduction, graphics primitives - pixel, resolution, aspect ratio, frame buffer. Display devices, applications of computer graphics.
- Introduction to OpenGL - OpenGL architecture, primitives and attributes, simple modelling and rendering of two and three dimensional geometric objects, GLUT, interaction, events and call-backs picking.(Simple Interaction with the Mouse and Keyboard)
- Scan conversion: Line drawing algorithms: Digital Differential Analyzer (DDA). Bresenham. Circle drawing algorithms: DDA, Bresenham, and Midpoint.

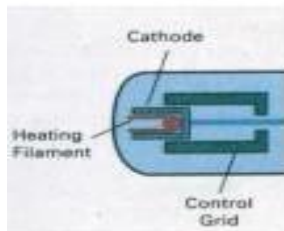
- **Polygons:** Polygons are closed geometric shapes with straight sides. They can be regular (all sides and angles are equal) or irregular (sides and angles can vary). Common examples include triangles, rectangles, and pentagons.
- **Circles:** Circles are round shapes defined by a center point and a radius. They can be used to represent curves and arcs.
- **Ellipses:** Similar to circles, ellipses are elongated round shapes defined by a center point, major axis, and minor axis.
- **Curves:** Curves represent smooth or nonlinear paths. Bezier curves and splines are examples of commonly used curves in computer graphics.
- **Surfaces:** Surfaces are two-dimensional representations of shapes. These can be used to create 3D models by combining multiple surfaces.

# CRT



- The electron gun emits a beam of electrons (**cathode rays**).
- The electron beam passes through focusing and deflection systems that direct it towards specified positions on the **phosphor-coated screen**.
- When the beam hits the screen, the phosphor emits a small spot of light at each position contacted by the electron beam.

## Electron Gun



- Heat is supplied to the cathode by the **filament**.
- The free electrons are then accelerated toward the phosphor coating by a **high positive voltage**.

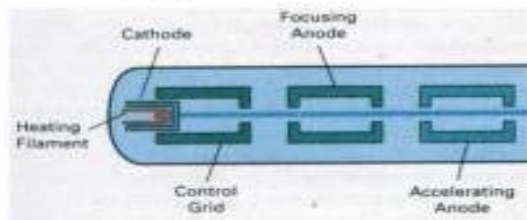
## High positive voltage

A positively charged metal coating on the inside of the CRT envelope near the phosphor screen.



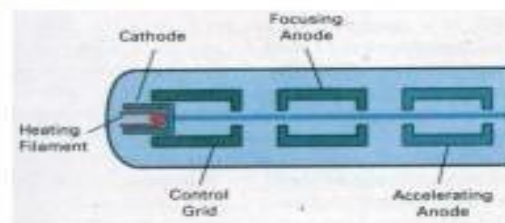
## High positive voltage

### Accelerating anode



## Control grid

**Intensity** of the electron beam is controlled by setting voltage level on the control grid.



Department : Computer

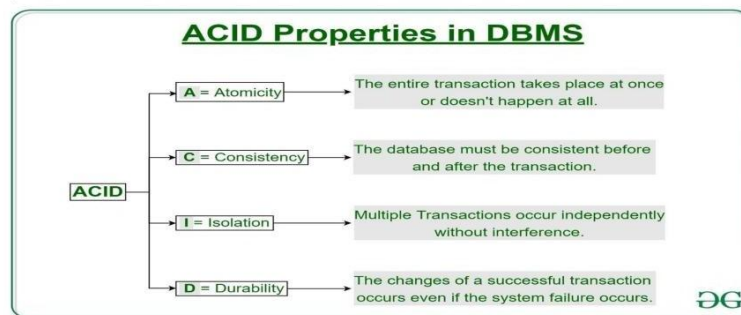
Class : TE

Subject : Database Management Systems

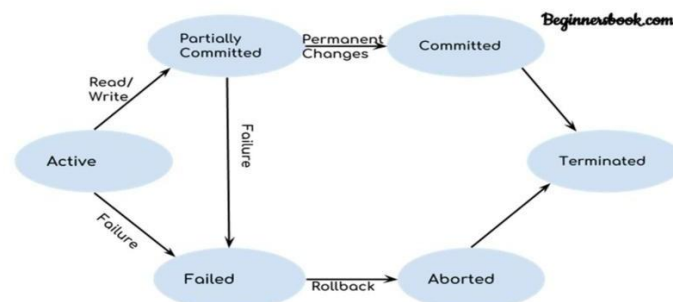
# Database Transaction management

## Unit 4

### Properties of transaction



### Transaction States



# Teaching through Power Point Presentations

## Department of Civil Engineering

Class: SECE

Sem: I

Subject: Fluid Mechanics

### Introduction

- Fluid mechanics is a study of the behavior of fluids, either at rest (fluid statics) or in motion (fluid dynamics).
- The analysis is based on the fundamental laws of mechanics, which relate continuity of mass and energy with force and momentum.
- An understanding of the properties and behavior of fluids at rest and in motion is of great importance in engineering.

### Objectives

- Identify the units for the basic quantities of time, length, force and mass.
- Properly set up equations to ensure consistency of units.
- Define the basic fluid properties.
- Identify the relationships between specific weight, specific gravity and density, and solve problems using their relationships.

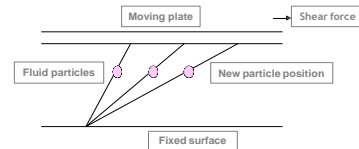
### 1.1 Definition of Fluid

- A fluid is a substance, which deforms continuously, or flows, when subjected to shearing force
- In fact if a shear stress is acting on a fluid it will flow and if a fluid is at rest there is no shear stress acting on it.

Fluid Flow → Shear stress - Yes  
Fluid Rest → Shear stress - No

### Shear stress in moving fluid

- If fluid is in motion, shear stress are developed if the particles of the fluid move relative to each other. Adjacent particles have different velocities, causing the shape of the fluid to become distorted
- On the other hand, the velocity of the fluid is the same at every point, no shear stress will be produced, the fluid particles are at rest relative to each other.



### Newtonian and Non-Newtonian Fluid

Fluid  $\xrightarrow{\text{obey}}$  Newton's law of viscosity  $\xrightarrow{\text{refer}}$  Newtonian fluids

Newton's law of viscosity is given by;

$$\tau = \mu \frac{du}{dy} \quad (1.1)$$

$\tau$  = shear stress  
 $\mu$  = viscosity of fluid  
 $du/dy$  = shear rate, rate of strain or velocity gradient

Example:  
Air  
Water  
Oil  
Gasoline  
Alcohol  
Kerosene  
Benzene  
Glycerine

- The viscosity  $\mu$  is a function only of the condition of the fluid, particularly its temperature.
- The magnitude of the velocity gradient ( $du/dy$ ) has no effect on the magnitude of  $\mu$ .

### Newtonian and Non-Newtonian Fluid

Fluid  $\xrightarrow{\text{Do not obey}}$  Newton's law of viscosity  $\xrightarrow{\text{refer}}$  Non-Newtonian fluids

- The viscosity of the non-Newtonian fluid is dependent on the **velocity gradient** as well as the **condition of the fluid**.

#### Newtonian Fluids

- a linear relationship between shear stress and the velocity gradient (rate of shear),
- the slope is constant
- the viscosity is constant

#### non-Newtonian fluids

- slope of the curves for non-Newtonian fluids varies



## Department of Civil Engineering

Class: TECE

Sem: I

Subject: Hydrology and Water Resources Engineering

### HYDROLOGY AND WATER RESOURCES ENGINEERING



### Syllabus

- Reservoir Types, Investigations, Site selection, Zones of storage, Safe yield, Reservoir capacity, Reservoir sedimentation and control.



### Reservoir

- A Reservoir is a artificial lake or impoundment from a dam which is used to store water.
- Reservoirs may be created in river valleys by the construction of a dam or may be built by excavation in the ground or by conventional construction techniques such as brickwork or cast concrete.

### Purpose of Reservoir

- The Storage reservoir is formed for the following purpose:
- Flood Control
- Irrigation
- Water Supply
- Hydroelectric Power Generation
- Development of fishery
- Navigation
- Soil Conservation

### Flood Control



### Reservoir may be designated by.

- **Single Purpose Reservoir:** This type of reservoir is formed mainly to serve a single purpose, such as irrigation, flood control, water supply, etc.
- **Multipurpose Reservoir:** This type is formed to serve many purpose such as,
- Irrigation and water supply.
- Irrigation water supply and flood control.
- Irrigation, water supply, flood control, hydroelectric power generation, fishery, etc.



### Soil Conservation



### Classification of Reservoir

#### Storage Reservoir

- **Storage Reservoir** The storage reservoir is formed by constructing a dam across a river valley. The idea of constructing such a reservoir is to store the excess water which flows through the river during the high floods or rainy season. This stored water is then utilized for various purposes, such as irrigation, water supply, fishery, hydroelectric power generation, etc. Again the storage reservoir may be named as single purpose reservoir or multipurpose reservoir according to its utility.

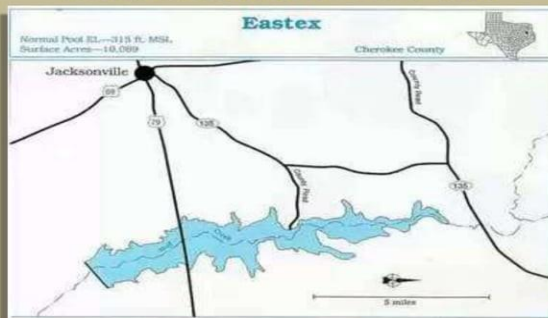
### Storage Reservoir



### Site Selection for Reservoir

- The following points should be remembered while selecting a site for a reservoir.
- *Stable foundation for the dam should be available where the reservoir basin is proposed to be formed.*
- *At the selected site the river valley should be narrow and well defined so that the length of the dam may be short.*
- *The proposed reservoir basin should be watertight and free from cracks, fissures, etc. so that there is no loss of water due to percolation.*
- *The reservoir water should not submerge valuable land or property.*

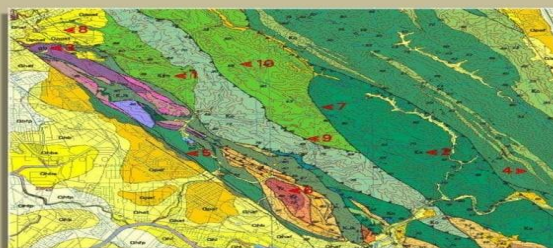
### Site Selection for Reservoir



### Investigation works for the Reservoir

- **Geological Survey:** It should be carried out to determine the following informations:
- **(i) Dam foundation:** The sub-surface exploration at the dam site should be carried out to locate the cracks, fissures, etc, which are responsible for the percolation loss. Necessary measures can then be recommended for percolation zones to control the losses.

### Geological Survey



### Hydrological Survey



## Teaching through Video Lecture

**Department:** Information Technology

**Class:** SEIT

**Sem:** I

**Subject:** Audit Course (Quantitative Aptitude and Logical Reasoning)



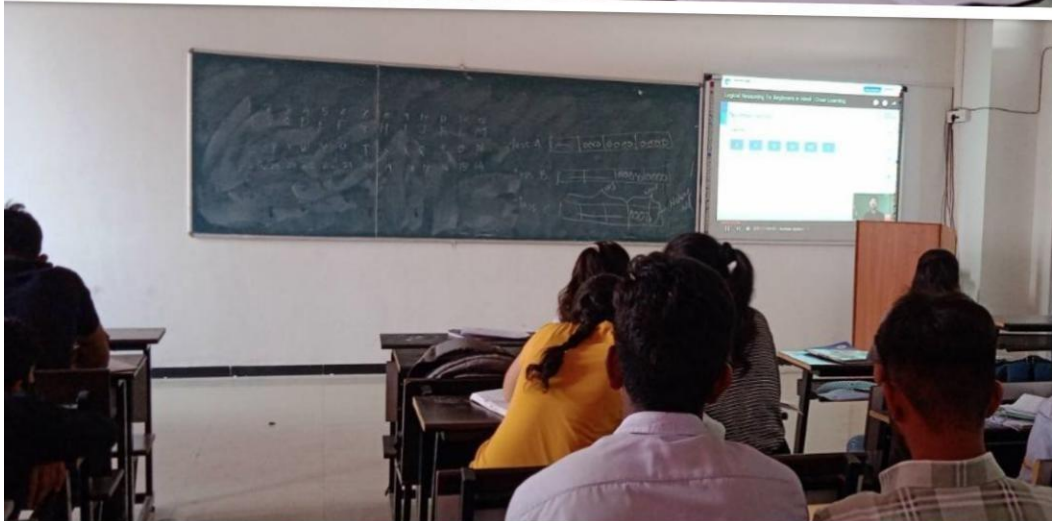
Nashik India

2MMR+65P, Gangapur Rd, Nashik,  
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November 6, 2023 553

Latitude 20.0322125 GMT

Longitude 73.6900628 Local



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Latitude 20.0322125 GMT

Longitude 73.6900628 Local



## Digital Classroom

### Department of Civil Engineering

**Class:** SECE

**Sem:** I

**Subject:** Audit Course 1 (Awareness to civil Engineering Practices)



# Google Classrooms

Google Classroom brings the benefits of paperless sharing, assessment, and digital collaboration to classrooms.

**Department:** Computer Engineering

**Class:** TE

This screenshot shows the Google Classroom interface for the class 'TE DSBDA AY 2023-24 Sem-II'. The left sidebar lists several classes, with 'TE DSBDA AY 2023-24 Sem-II' selected. The main area displays the 'Classwork' tab, featuring a '+ Create' button and a list of assignments and materials. The bottom of the sidebar shows the 'Enrolled' section.

Item	Posted
Unit 3	Posted Apr 11
Compulsory Assignments	Posted Mar 3
notes for unit 1 & unit 2	Posted Mar 2
QB FOR UNIT TEST 1 (UNIT 1& UNIT 2)	Posted Mar 2
UNIVERSITY QP	Posted Jan 31
DSBDA Reference Book	Posted Jan 25
Prerequisites Test For DSBDA for 2023-24	Posted Jan 18

This screenshot shows the Google Classroom interface for the class 'TE\_2023\_24\_DBMSL'. The left sidebar lists several classes, with 'TE\_2023\_24\_DBMSL' selected. The main area displays the 'Classwork' tab, featuring a '+ Create' button and a list of assignments and materials. The bottom of the sidebar shows the 'Enrolled' section.

Item	Posted
DBMS Mini Project Report Format	Posted Oct 16, 2023
DBMSL PRACTICAL SOLUTIONS	Posted Oct 16, 2023
Practical Assignments 2	Posted Aug 8, 2023
Practical Assignments 1	Posted Aug 8, 2023
Video link for DBMS LAB Practicals	Posted Oct 11, 2023

Department: AI&DS

Class: SE

[Stream](#)[Classwork](#)[People](#)[Grades](#)

SE(AI&DS) DSA AY-2023-24  
Sem-II

Class code  
qxdmhza

Upcoming  
No work due soon  
[View all](#)

C

Announce something to your class

C

cnp  
May 14

step wise construction of b+trees

Adobe Scan 14 May 2024....  
PDF

C

Add class comment...

C

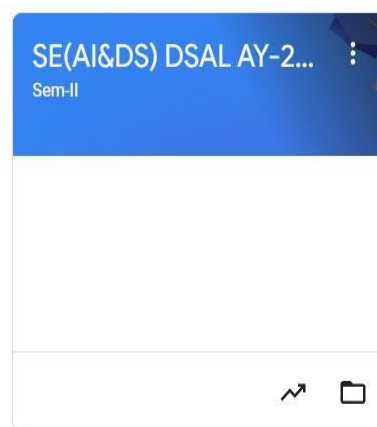
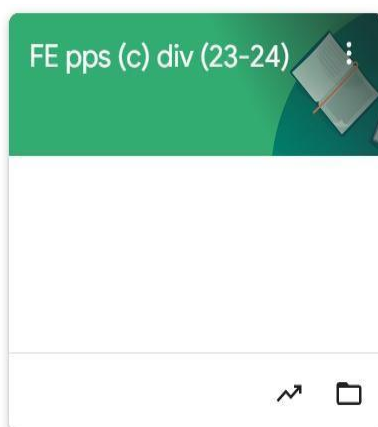
cnp  
May 5

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## Google Classrooms

A.Y. 2023-24 [Sem I]

Sr. No.	Classroom	Google Classroom Link	Classroom Code
1.	SE AI&DS CG AY-2023-24 I	<a href="https://classroom.google.com/c/NzAzMzAzNTE5NjI4">https://classroom.google.com/c/NzAzMzAzNTE5NjI4</a>	5iankyj
2.	SE AI&DS OOP AY-2023-24 I	<a href="https://classroom.google.com/c/NzAyOTAwODYzMTIz">https://classroom.google.com/c/NzAyOTAwODYzMTIz</a>	fkgguyj
3.	TE DSBDA AY-2023-24 I	<a href="https://classroom.google.com/w/NjQ3MzEwODkxMjIx/t/all">https://classroom.google.com/w/NjQ3MzEwODkxMjIx/t/all</a>	gxdmhza





**Department:** Information Technology

**Class:** SEIT



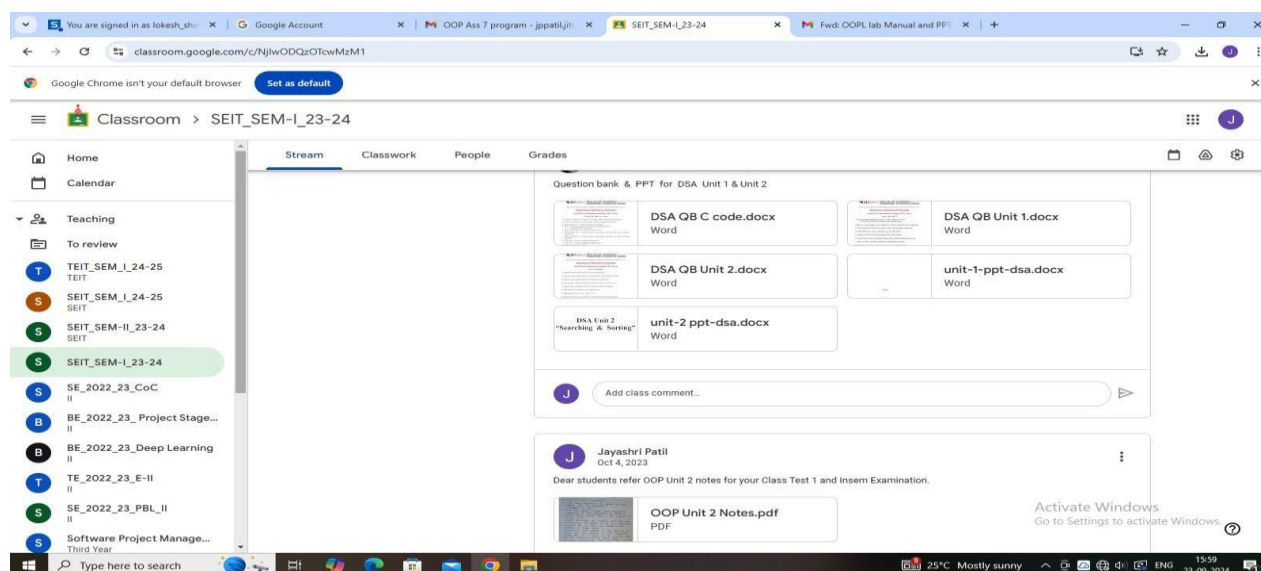
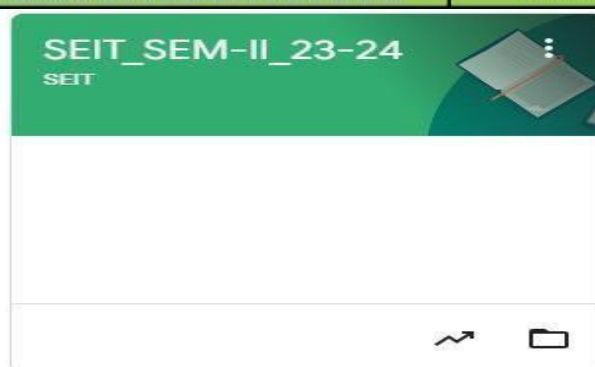
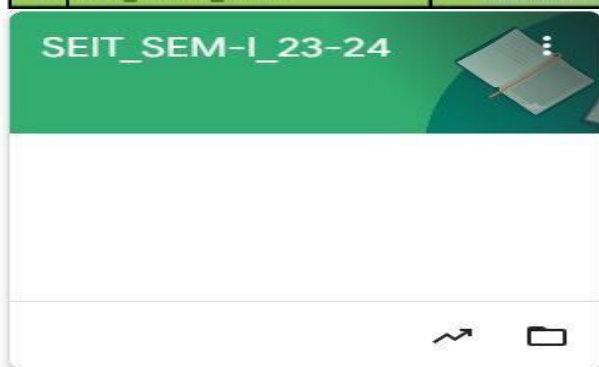
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**Department of Information Technology**

**Google Classrooms  
A.Y. 2023-24 [Sem - I]**

Sr. No.	Classroom	Google Classroom Link	Classroom Code
1	SEIT_SEM-I_23-24	<a href="https://classroom.google.com/u/2/c/NjIwODQzOTcwMzM1">https://classroom.google.com/u/2/c/NjIwODQzOTcwMzM1</a>	wracema
2	SEIT_SEM-II_23-24	<a href="https://classroom.google.com/u/2/c/NjQ3MTU3ODg1NzQz">https://classroom.google.com/u/2/c/NjQ3MTU3ODg1NzQz</a>	riyqdim



# E-Resources & E- Learning

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Copy of 3. Advanced Computational Intelligence_for Obje...	jtilibrary025	Jan 29, 2024 jtilibrary025	100.2 MB
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Copy of 7. Algorithms and Data Structures.pdf	jtilibrary025	Jan 29, 2024 jtilibrary025	2.3 MB
Copy of 8. Algorithms for Reinforcement Learning.pdf	jtilibrary025	Jan 29, 2024 jtilibrary025	1.5 MB
Copy of 10. Certified Programming with Dependent Types...	jtilibrary025	Jan 29, 2024 jtilibrary025	1.7 MB
Copy of 11. Communication Complexity.pdf	jtilibrary025	Jan 29, 2024 jtilibrary025	3.4 MB
Copy of 12. Computability and randomness.pdf	jtilibrary025	Jan 29, 2024 jtilibrary025	2.6 MB

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11 November 2024

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Copy of 45. Machine Learning and Data Mining.pdf	jtilibrary025	Jan 29, 2024 jtilibrary025	1.6 MB
Copy of 46. Machine Learning for Designers.pdf	jtilibrary025	Jan 29, 2024 jtilibrary025	17.1 MB
Copy of 47. Machine Learning for the Sciences.pdf	jtilibrary025	Jan 29, 2024 jtilibrary025	4.1 MB
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Copy of 53. Quantum Information Meets Quantum Matter.pdf	jtilibrary025	Jan 29, 2024 jtilibrary025	6.9 MB
Copy of 54. Think Data Structures.pdf	jtilibrary025	Mar 6, 2024 jtilibrary025	782 KB

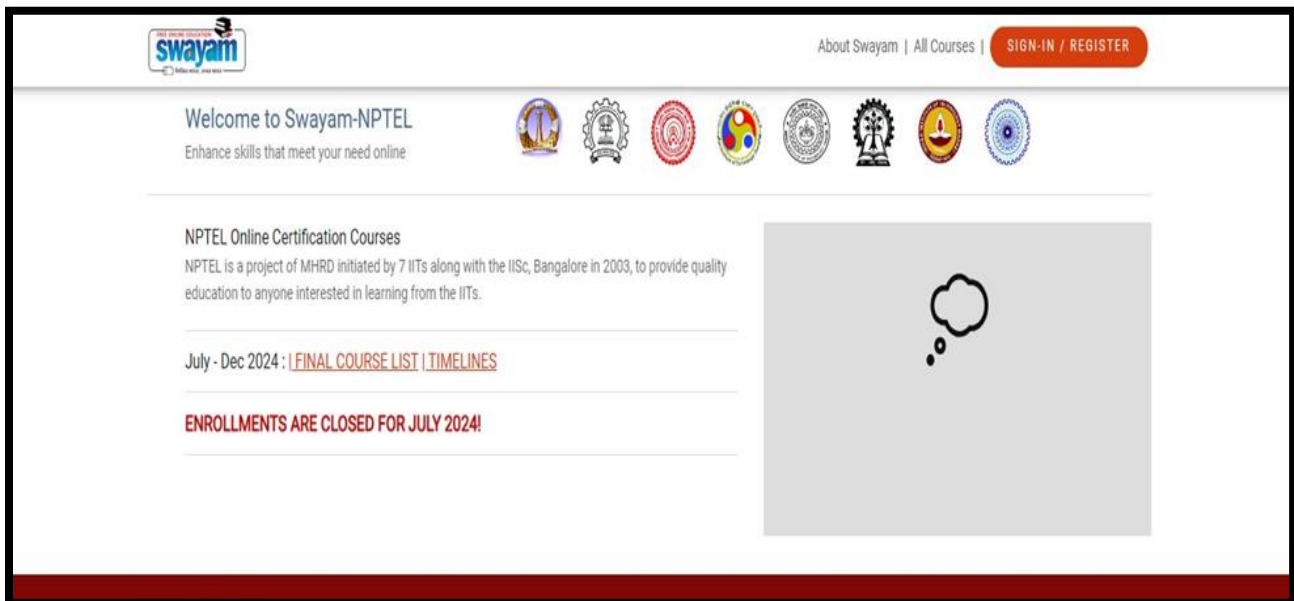
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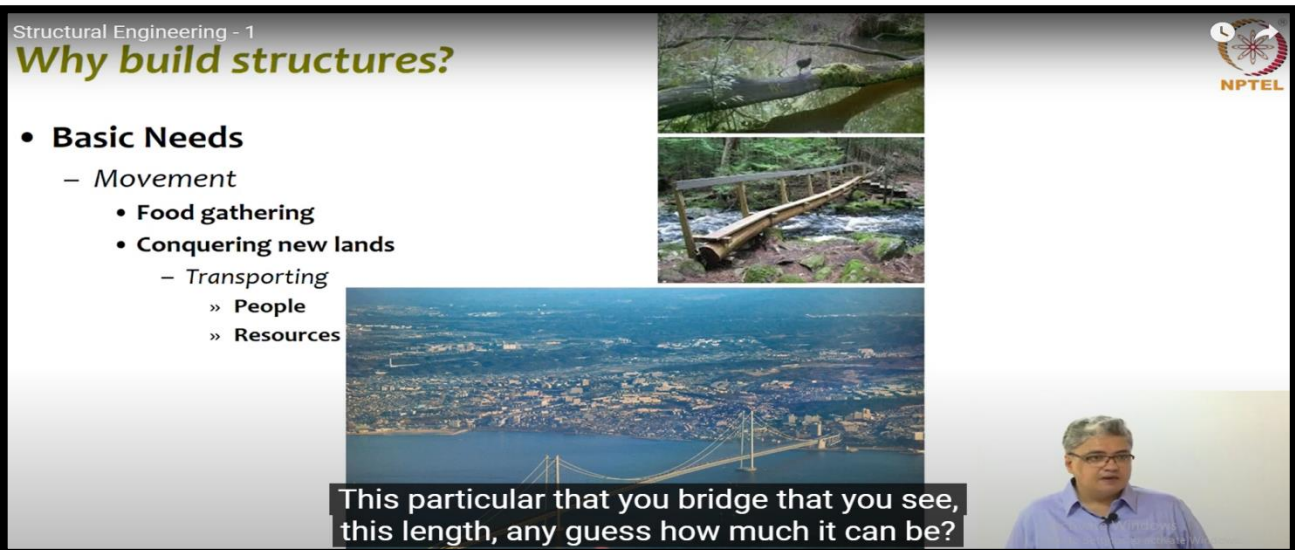
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## Department of Civil Engineering E-Resources & E- Learning

NPTEL is a project of MHRD initiated by 7 IITs along with the IISc, Bangalore in 2003, to provide quality education to anyone interested in learning from the IITs.



The screenshot shows the Swayam-NPTEL website. At the top, there is a navigation bar with the Swayam logo, the text "About Swayam | All Courses |", and a "SIGN-IN / REGISTER" button. Below the navigation bar, the main heading is "Welcome to Swayam-NPTEL" with the tagline "Enhance skills that meet your need online". A row of logos for the seven IITs and IISc is displayed. The main content area features the text "NPTEL Online Certification Courses" and a description of the project. Below this, there is a link to "July - Dec 2024 : [FINAL COURSE LIST](#) | [TIMELINES](#)". A red banner at the bottom of the main content area states "ENROLLMENTS ARE CLOSED FOR JULY 2024!". To the right of the text, there is a large grey rectangular area with a thought bubble icon.




The slide is titled "Structural Engineering - 1" and "Why build structures?". It features a bulleted list of "Basic Needs" with sub-points: "Movement", "Food gathering", "Conquering new lands", and "Transporting". The "Transporting" point is further detailed with "People" and "Resources". The slide includes three images: a close-up of a tree trunk, a wooden bridge over a stream, and a large suspension bridge over a body of water. A video inset in the bottom right corner shows a man speaking. A text box at the bottom of the slide reads: "This particular that you bridge that you see, this length, any guess how much it can be?". The NPTEL logo is in the top right corner.

- **Basic Needs**
  - Movement
    - Food gathering
    - Conquering new lands
  - Transporting
    - » People
    - » Resources

This particular that you bridge that you see, this length, any guess how much it can be?


**NPTEL is a project of MHRD initiated by 7 IITs along with the IISc, Bangalore in 2003, to provide quality education to anyone interested in learning from the IITs.**

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Electrical Dept	Couldn't load ...	Dec 20, 2018	—	⋮
GATE (previous years questions with answers)	Couldn't load ...	Sep 25, 2019	—	⋮
Mechanical Dept	Couldn't load ...	Dec 18, 2018	—	⋮
Other Books	Couldn't load ...	Dec 21, 2018	—	⋮

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2020

Department Profile

Librarian & Faculty Details

Library Statistics and Services

Rules for Circulation

Syllabus

University Question Paper

E- Books

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Welcome To Central Library

## Department Profile

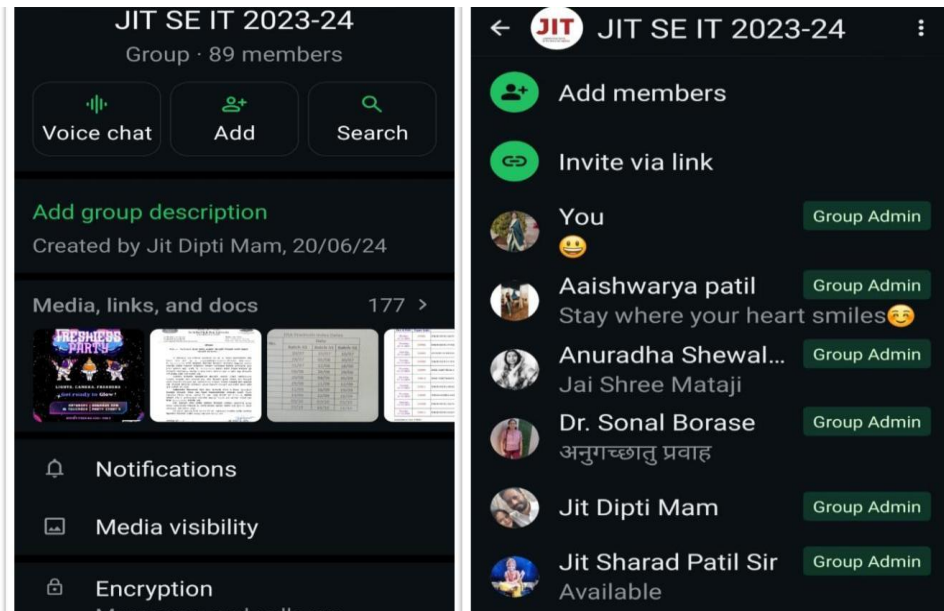
The institute's central library has been established since June 2012. The Library has a collection of 10,110 volumes and 1,739 titles. In addition, Marathi literature books (46) and print journals (54) and different Newspapers are available. The students regularly visit library and refer available books/recourses to prepare the GATE & other competitive exams. The library provides access to online services to all the students and faculties. The library has OPAC (Online Public Access Catalogue) systems to search the e. CCTV cameras are installed to monitor the activities in the library area.



## Students Whatsapp Group

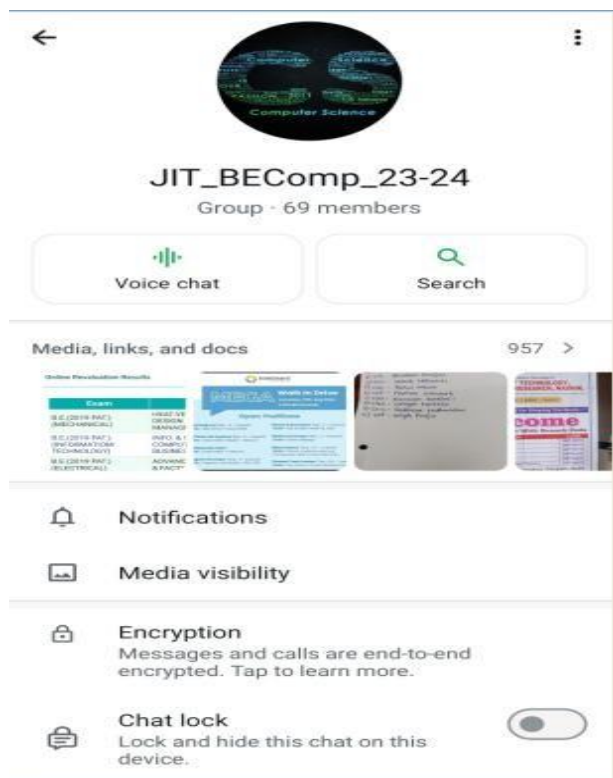
**Department:** Information Technology

**Class:** SEIT



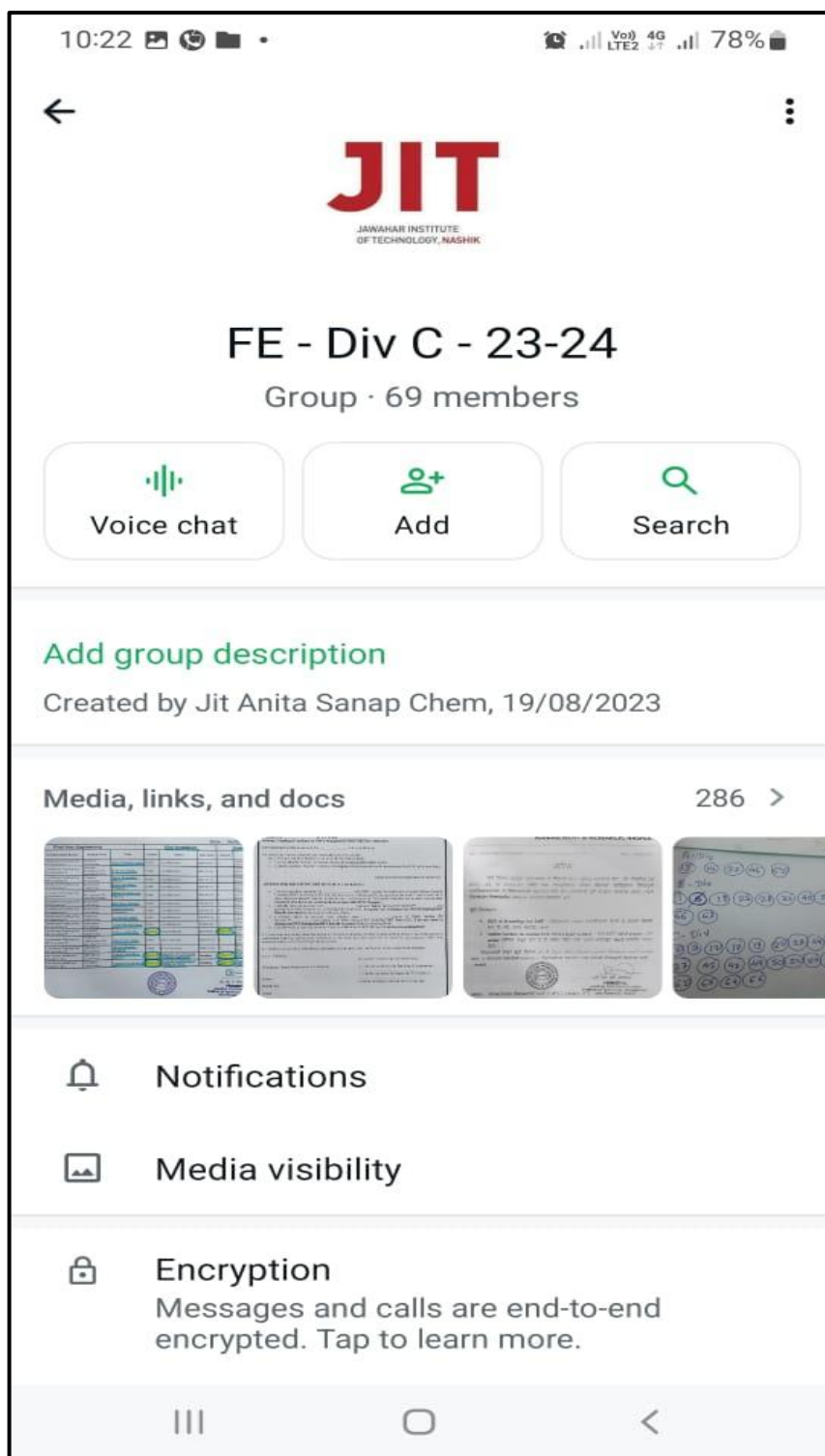
**Department:** Computer Engineering

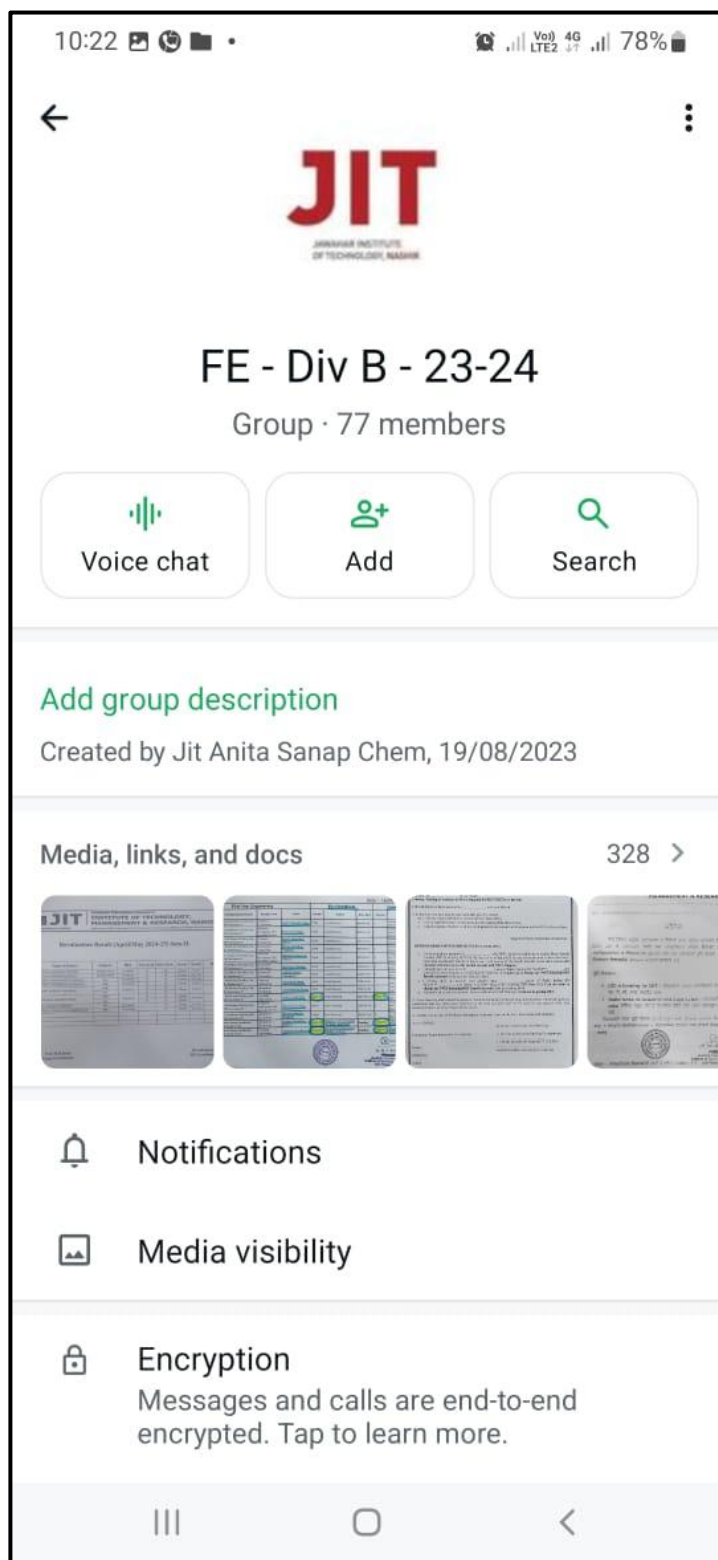
**Class:** BE

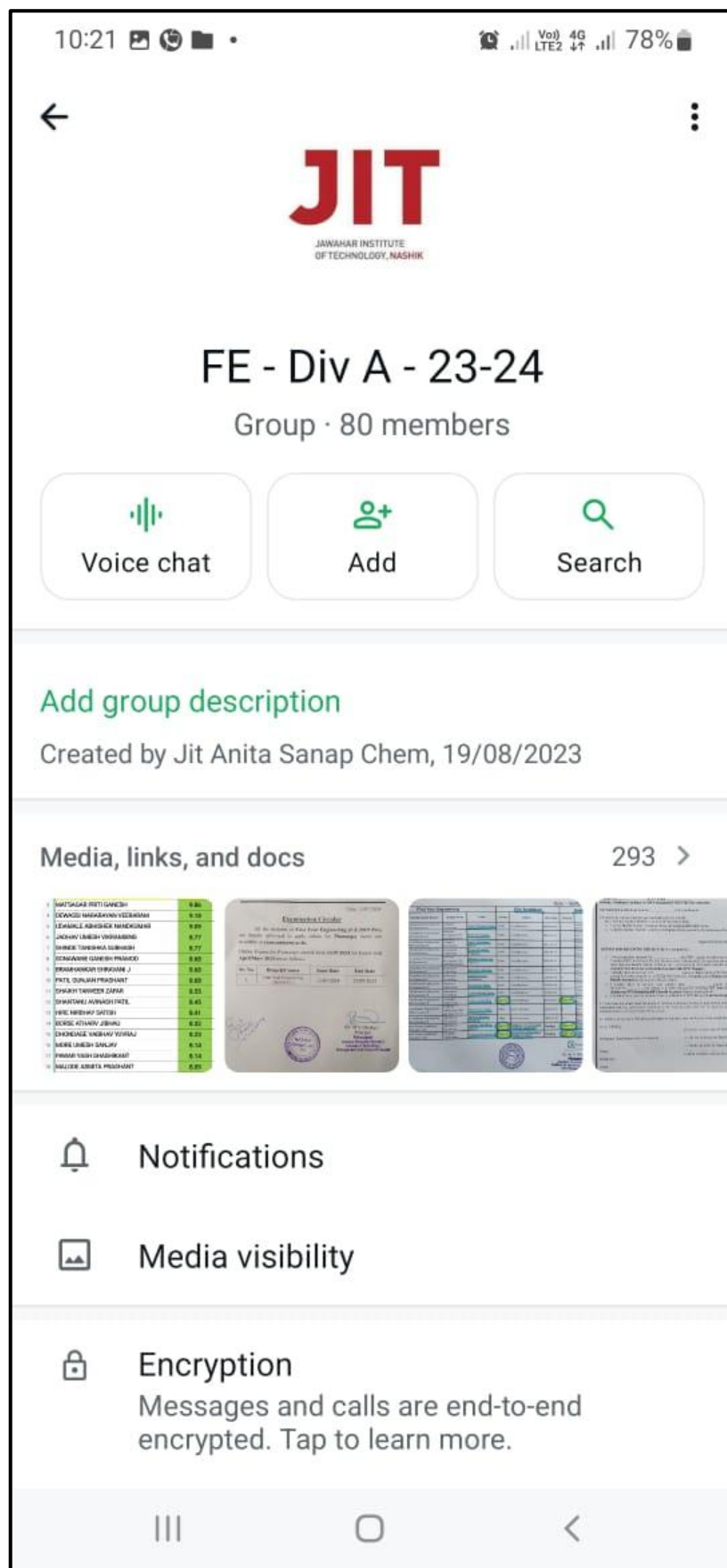




## Students Whatsapp Group







## Department of Civil Engineering

### STUDENTS WHATSAPP GROUP 2023-2024

2:35 0.97 KB/s 4G 56

**JIT** 2023-24 BE CIVIL JIT  
Amrutkar Sanket Jit Clg, Jopale Dipali...

Your security code with Dhanshree Jit Clg changed. Tap to learn more.

6 October 2024

**Desale Sir Jit Clg**

**GATE**  
goaps.iitr.ac.in

**IMPORTANT UPDATES**

GATE 2025 : Closing Date of EXTENDED online registration application process (With Late Fee) is 7th October 2024 (Monday).

✅ Apply Now:  
<https://goaps.iitr.ac.in/login> 11:28 am

8 October 2024

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10 October 2024











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16 October 2024

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**JIT** 2023-24 BE CIVIL JIT

-  You Group Admin  
Prof.S.B.Kajabe - CEO JIT College Nashik
-  Bedase Mam Jit Clg Group Admin  
"I can do it",
-  Desale Sir Jit Clg Group Admin  
Life is waiting for the best shot. 🌱
-  Ajinkya Waghpatil Jit Clg  
कार्यमनता जिवन व्हावे, मृत्यु हीच विश्रांती
-  Akshay Deore Jit Clg  
☀️
-  Amrutkar Sanket Jit Clg  
Dream big and dare to fail. 🙌
-  Bansod Dipesh Jit Clg  
👉
-  Bhadange Pravin Jit Clg  
🌹
-  Bhamare Dhanesh Jit Clg  
👑साम्राज्य👑
-  Bhamare Shantanu Jit Clg

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## Puzzles

**Department:** Information Technology

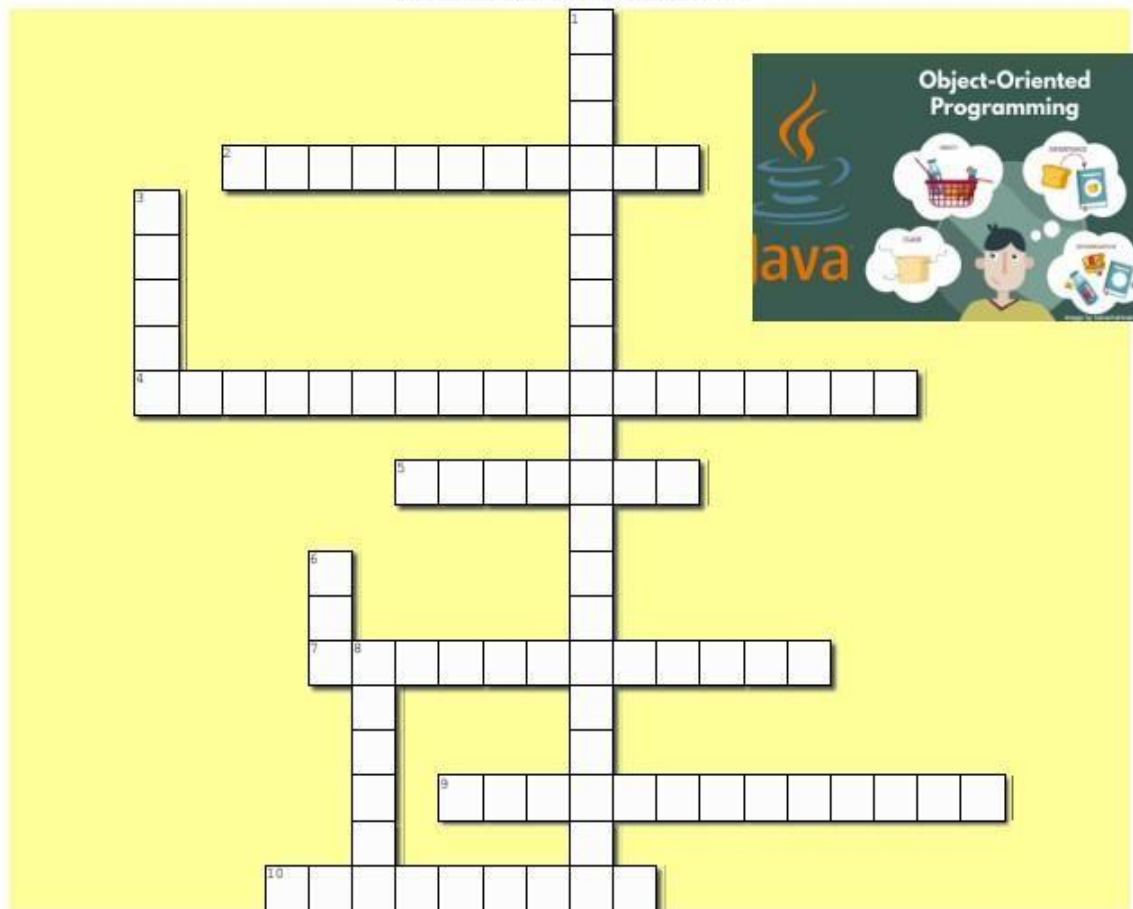
**Class:** SEIT

**Puzzle:** Crossword

Name: \_\_\_\_\_

### Object Oriented Programming using Java

Complete the crossword puzzle below



Created using the Crossword Maker on TheTeachersCorner.net

#### Across

2. a block of code that initializes the newly created object
4. Child class derived directly from the base class
5. linking between method definition and method call.
7. having many forms
9. the binding of data and methods
10. can only have abstract methods.

#### Down

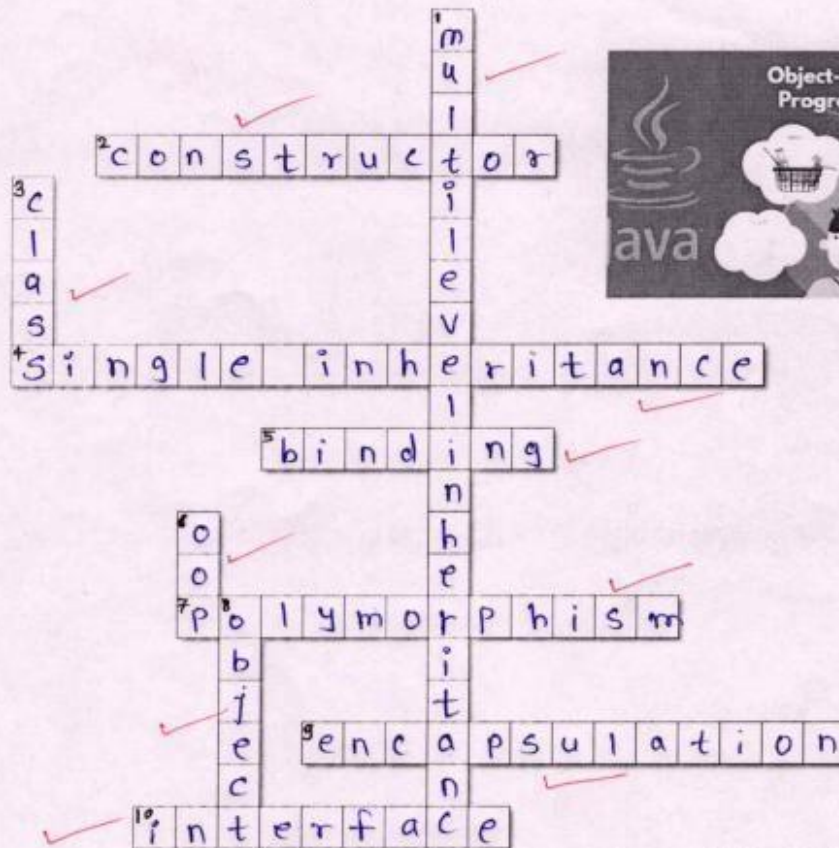
1. Child class derived from the class which is also derived from another base class.
3. a building block of Object Oriented Programs
6. a programming paradigm where the complete software operates as a bunch of objects talking to each other
8. an instance of a class



Name: Priya Ray

## Object Oriented Programming using Java

Complete the crossword puzzle below



Created using the Crossword Maker on TheTeachersCorner.net

### Across

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4. Child class derived directly from the base class
5. linking between method definition and method call.
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### Down

1. Child class derived from the class which is also derived from another base class.
3. a building block of Object Oriented Programs
6. a programming paradigm where the complete software operates as a bunch of objects talking to each other
8. an instance of a class

Ⓜ ©



**Department:** Information Technology

**Class:** SEIT

**Puzzle:** Scrambled Words

Name: \_\_\_\_\_

## Computer Graphics

Please unscramble the words below

Created on TheTeachersCorner.net Scramble Maker

- |              |                   |
|--------------|-------------------|
| 1. nregrndie | 6. rvtoce         |
| 2. urtteex   | 7. tiniaomna      |
| 3. lpoongy   | 8. naraortmfonsit |
| 4. gsinalc   | 9. iegodlmn       |
| 5. mbitpa    | 10. otiusnlore    |

Name: Priya Ray

### Computer Graphics

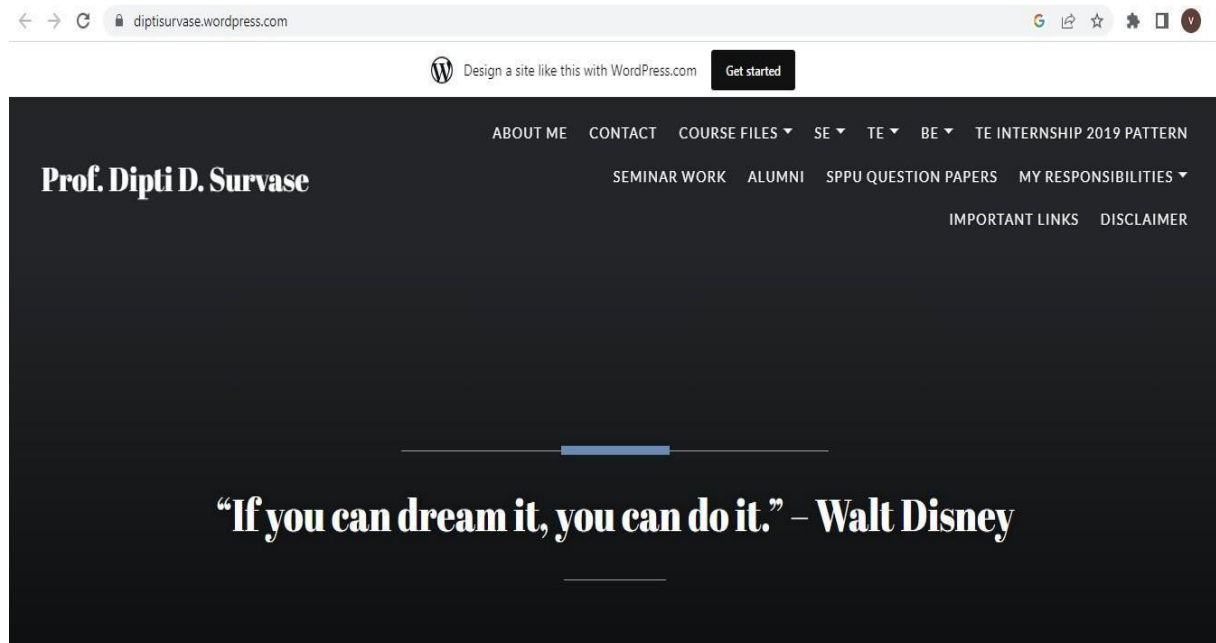
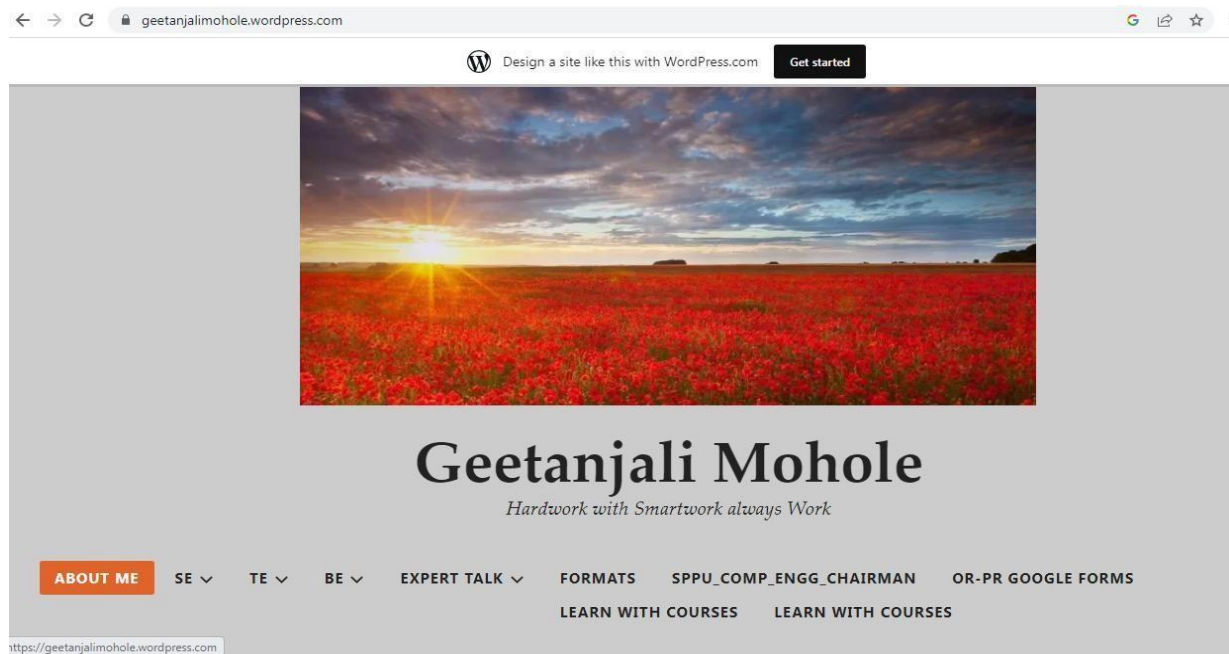
Please unscramble the words below

Created on TheTeachersCorner.net Scramble Maker

1. nregrndie	<u>Rendering</u> ✓	6. rvtoce	<u>Vector</u> ✓
2. urtteex	<u>Texture</u> ✓	7. tiniaomna	<u>Animation</u> ✓
3. lpoongy	<u>Polygon</u> ✓	8. naraortmfonsit	<u>Transformation</u> ✓
4. gsinalc	<u>Scaling</u> ✓	9. iegodlmn	<u>Modeling</u> ✓
5. mbitpa	<u>Bit map</u> ✓	10. otiusnlore	<u>Resolution</u> ✓

Ⓜ Ⓢ

## Blog Developed and Designed by Faculties





## Prof. Vishakha R.Bhadane

- Save Girl child "Think a World without them" -



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Welcome to my Blog !!!

## Prof. Swapnil S. Thakare

- Life is 10% what happens to us & 90% how we react to it. -

HOME · SUBJECTS · AUDIT COURSE · CONTACT · COURSE FILES

Home

### Welcome to my Blog !!!

### About Me!!!

- **Qualification:** ME (Computer Engineering) and MBA in Human Resource.
- **Designation:** Assistant Professor, Department of Computer Engineering
- **Organization:** Jawahar Education Society's, Institute of Technology, Management & Research, Nashik
- **Contact:**



Prof. Rahul Sonawane

- Fight In Every Situation.... -



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Reversible Reaction

KINEMASTER

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Chemical Equilibrium

KINEMASTER

Def<sup>n</sup>: It is state of reversible reaction in which rate of forward reaction is equal to rate of backward reaction, & where the concentration of reactant & product do not change with time.

Ex:  $A + B \xrightleftharpoons[\text{Backward}]{\text{forward}} C + D$   
Reactants Products

1 Conc<sup>n</sup> ↑ Rate

Reactant (A+B)

Product (C+D)

Time →

Eqm



Ch ① Chemical Energetics

Phase:- Homogeneous, physically distinct & mechanical separable portion of system.

Solid	Melting	Liquid	vaporization	Gas	Ionization	Plasma
Freezing		Condensation		Demolization		
Definite shape ✓		Indefinite shape ✗		Indefinite shape ✗		Indefinite shape ✗
Definite volume ✓		Indefinite volume ✗		Indefinite volume ✗		Indefinite volume ✗
Particle high		medium		no/v little		Nuclei & e <sup>-</sup>
can move their place only		can slide		free to move		Neon Sign lamp
Diamond		Juice		Air		
very rigid						

Diagram of an Atom: Nucleus (+) surrounded by electrons (e<sup>-</sup>).

Dr. Anita Kailas Sanap, SSR College, Silvassa

Phase of Matter|Physical Chemistry|Lecture Series-2|By Dr. Anita Sanap

Ch ① Chemical Energetics

Types of system

Q. Discuss homogeneous & heterogeneous system.

homogeneous	heterogeneous
only one phase	More than one phase
Example: H <sub>2</sub> O + HNO <sub>3</sub>	Example: Ice + H <sub>2</sub> O
pure	different
same	

Q. Define Extensive & Intensive property

Extensive property: magnitude depends on amount of substance. Example: Volume, Length, Mass. (1L, 1kg, 1g)

Intensive property: magnitude independent on amount of substance. Example: MP, BP, RI, Color, hardness. (H<sub>2</sub>O, 100°C, 1ml)

Dr. Anita Kailas Sanap, SSR College, Silvassa

Homo & Heterogeneous system, Intensive & Extensive Property|Lecture Series-3|By Dr. Anita Sanap



## Webinar

### Webinar on “Crowdsource” organized by Computer Engineering Department

