Bansilal Ramnath Agarwal Charitable Trust's

Vishwakarma Institute of Technology, Pune-37.

(An Autonomous Institute affiliated to Savitribai Phule Pune University)

Department of Computer Engineering

Innovation by faculty in teaching learning process

Sr. No	Name of Faculty	Name of Course	Initiative	Verifiable indicator
1	Amol A. Bhilare	Data Structures	Course made available through Online platform via VOLP and YouTube.	https://www.youtube.com/channel/UCxx8UuByF1ApO1H4OcAwGOg/videos
2	Pushkar S. Joglekar	Design and Analysis of Algorithms	Blended teaching and learning: Recorded video of some topics were given to students apriori and during the tutorial sessions problem solving based on the topics is carried out	https://drive.google.com/drive/folders/1px4sppq2uM-BE3UMM1FSLVN13F-umDqW
3	Swati Jadhav	Software Engineering	Created Subject webpage for having smooth coordination (Like IIT professors does). Provided different courses available freely to excel in this subject + Research paper writing on course projects	https://sites.google.com/view/swatijadhav/software-engineering?authuser=0

Dr. S. R. Shinde
Head of Computer Engg. Department

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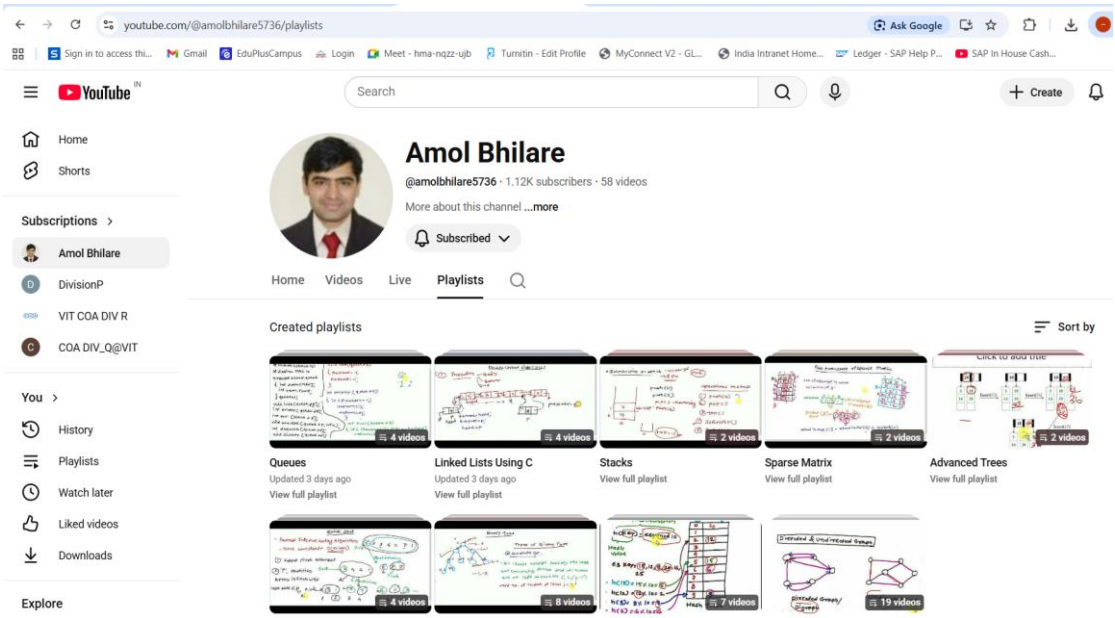
Name of faculty: Prof. Amol A. Bhilare
Name of Course: Data Structures

Topics covered:

- **Stack**
  Queue
- **Linked List**
- **Trees**
- **Graphs**
- **Hashing Techniques**
- **Sorting Algorithms**

Photos with caption:

YouTube Channel Home Page



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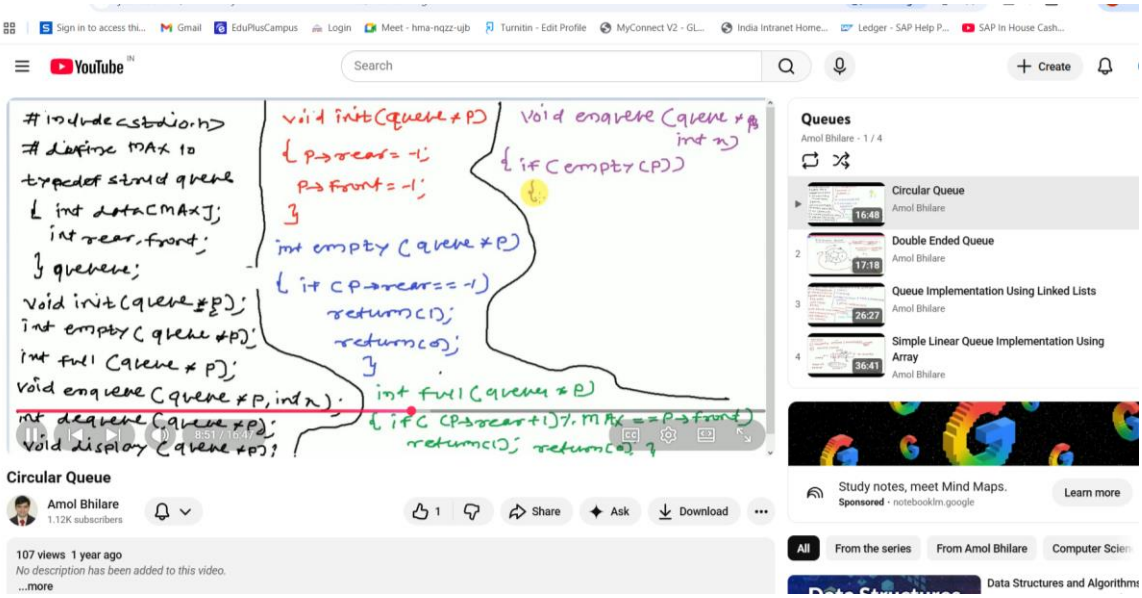
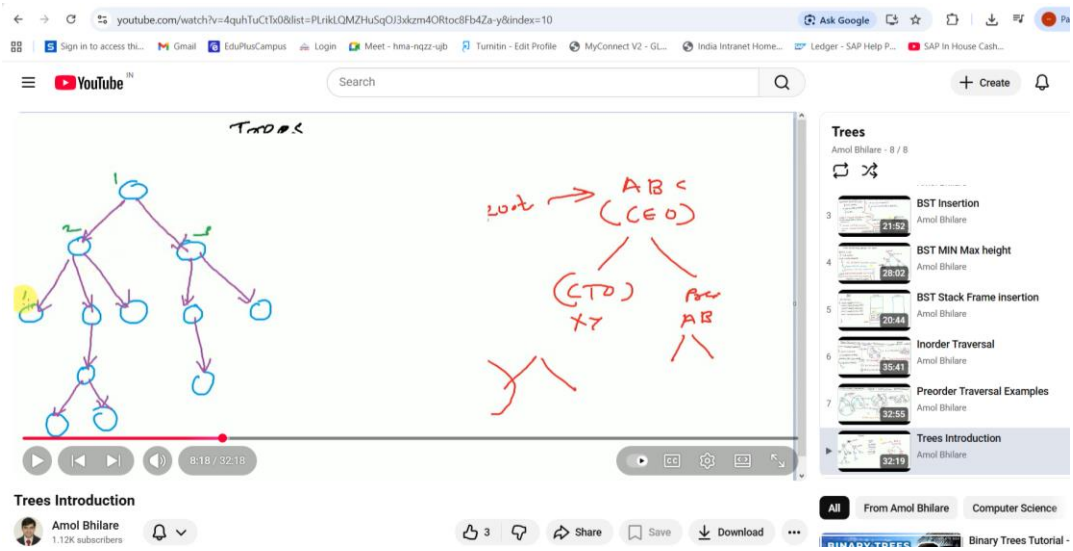
Topic covered: Linear Queue, Double Ended Queue, Circular Queue and Queue implementation using linked list



Topic covered: Tree Traversal with example, Binary Search Tree with example



Prof. Amol A. Bhilare
Subject Teacher

Dr. S. R. Shinde
HoD, Computer Engg. Dept.

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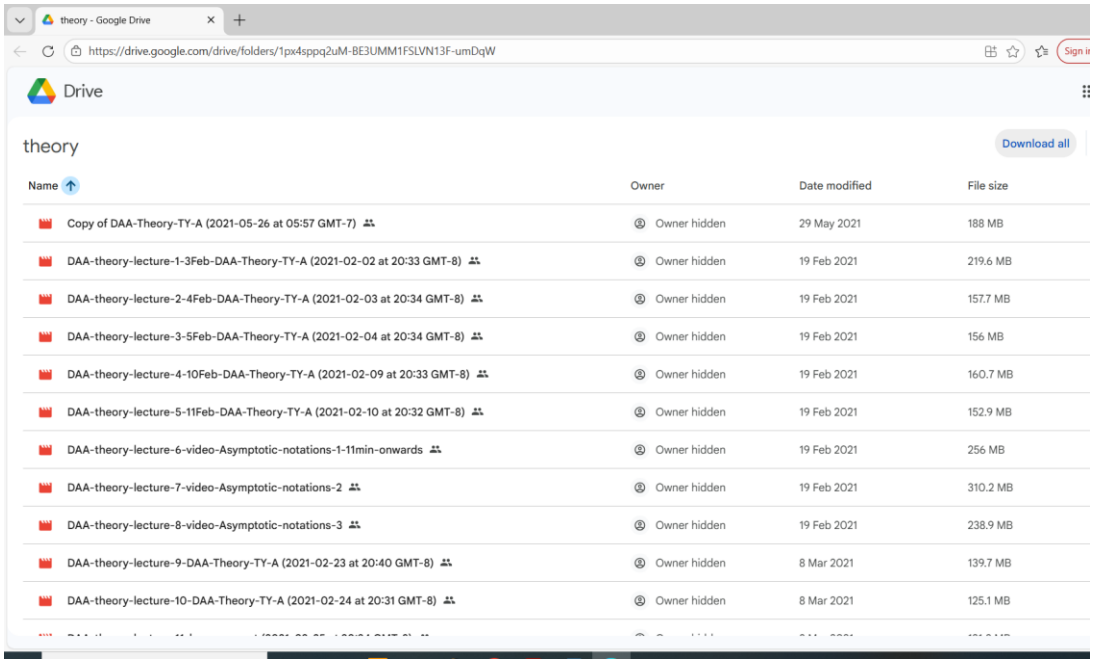
Name of faculty: Prof. Pushkar S. Joglekar
Name of Course: Design and Analysis of Algorithms

Topics covered:

- **Asymptotic Notations**
- **Time and space complexity**
- **Different algorithm design paradigm like Divide and Conquer, Dynamic Programming, Greedy and backtracking**
- **P, NP hard, Np Complete Problems**
- **Randomized Algorithms**

Photos with caption:

Contents uploaded on drive



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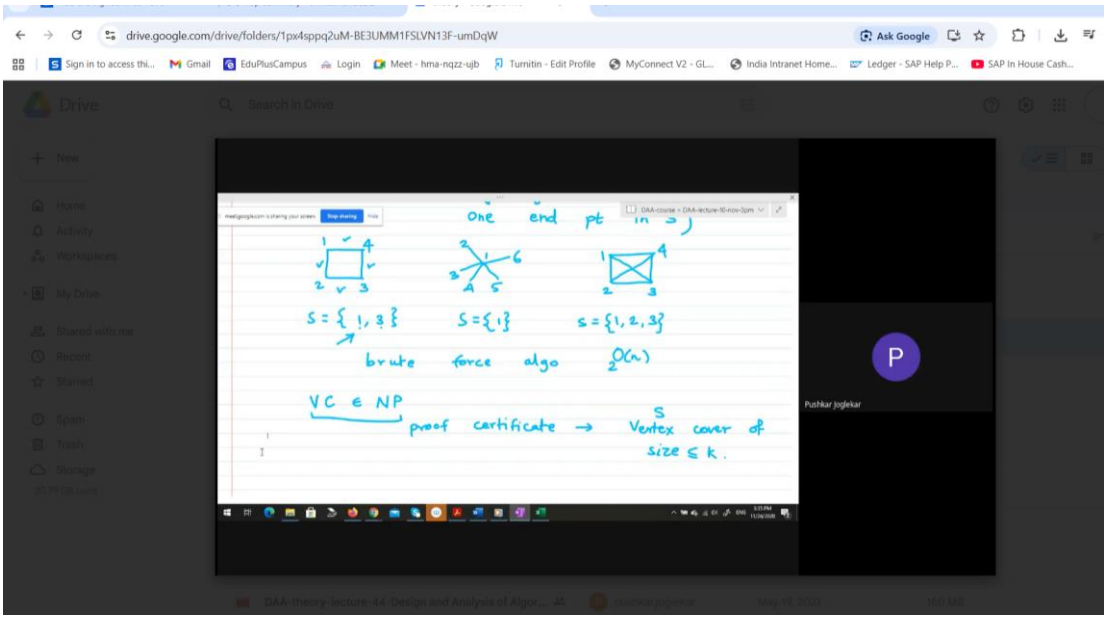
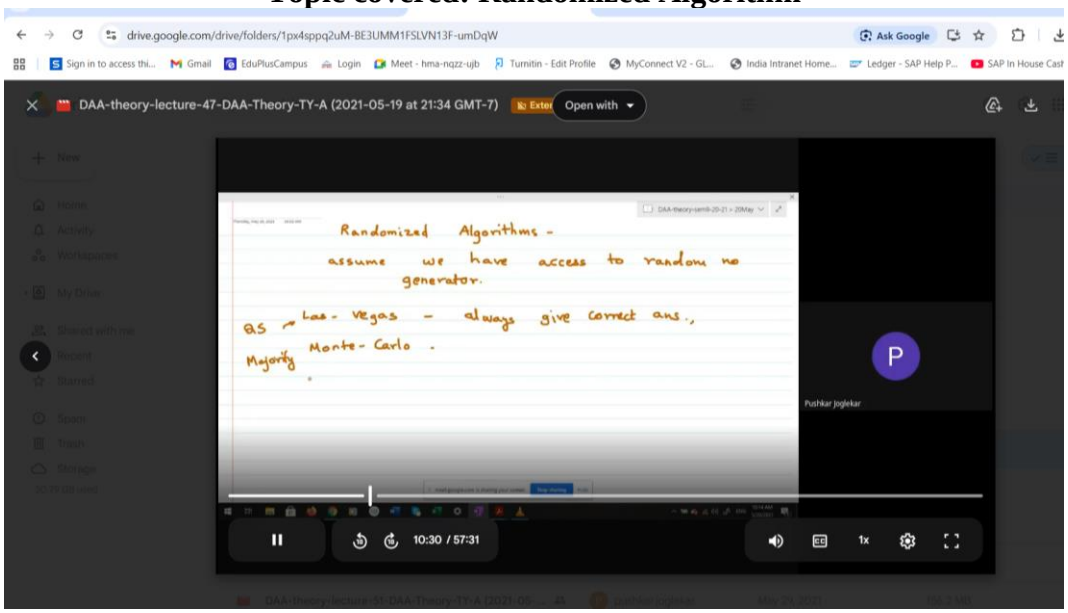
Topic covered: P, Np Complete and NP hard Problems



Topic covered: Randomized Algorithm



Prof. Pushkar S. Joglekar
Subject Teacher

Dr. S. R. Shinde
HoD, Computer Engg. Dept.

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Report on "Innovation by faculty in teaching learning process"

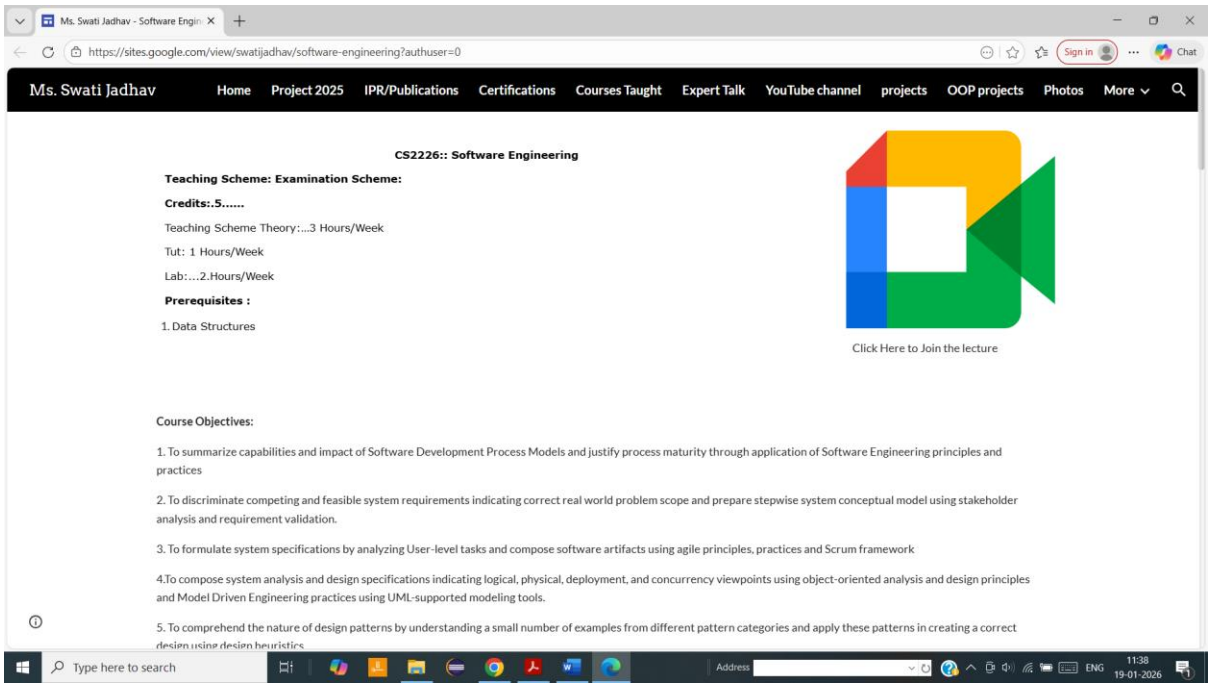
Name of faculty: Prof. Swati S. Jadhav
Name of Course: Software Engineering

Topics covered:

- **Study material of Software Engineering, Java programming and Python programming Course**
- **Project ideas along with details**
- **Links of YouTube Videos**

Photos with caption:

Subject Webpage



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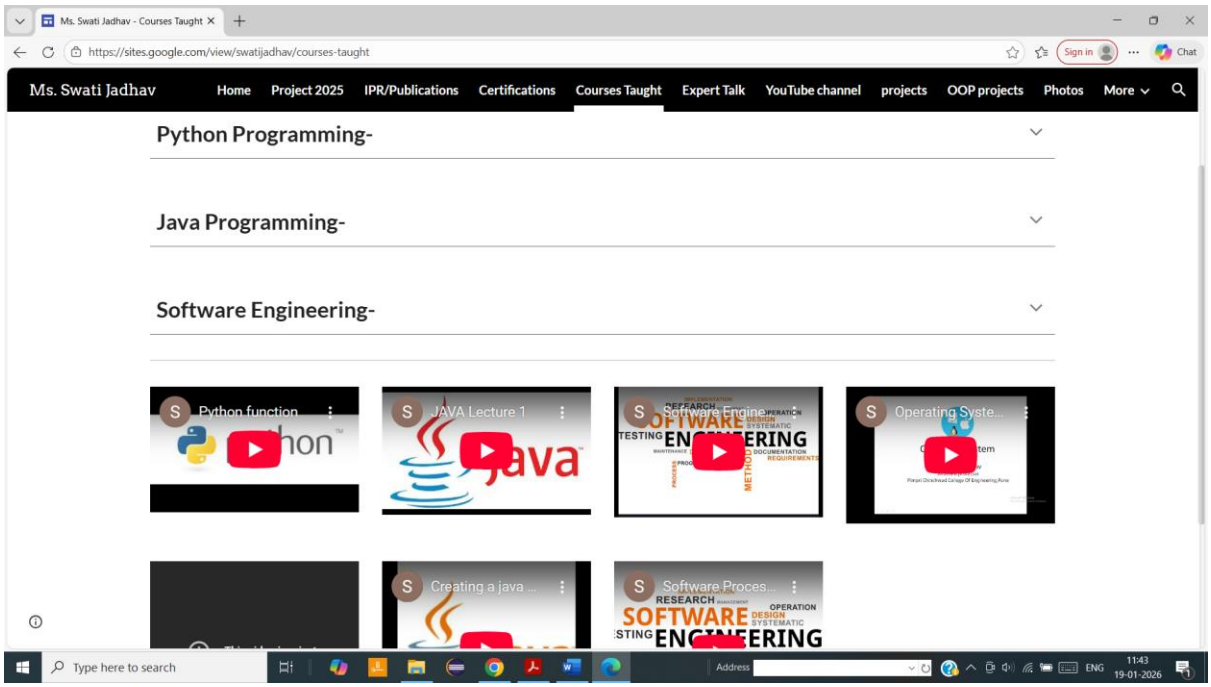
Videos of different courses like Software engineering, java programming and python programming



Prof. Swati Jadhav
Subject Teacher

Dr. S. R. Shinde
HoD, Computer Engg. Dept.