

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

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

Report on "Innovation by faculty in teaching learning process"

Name of faculty: Prof. Amol A. Bhilare

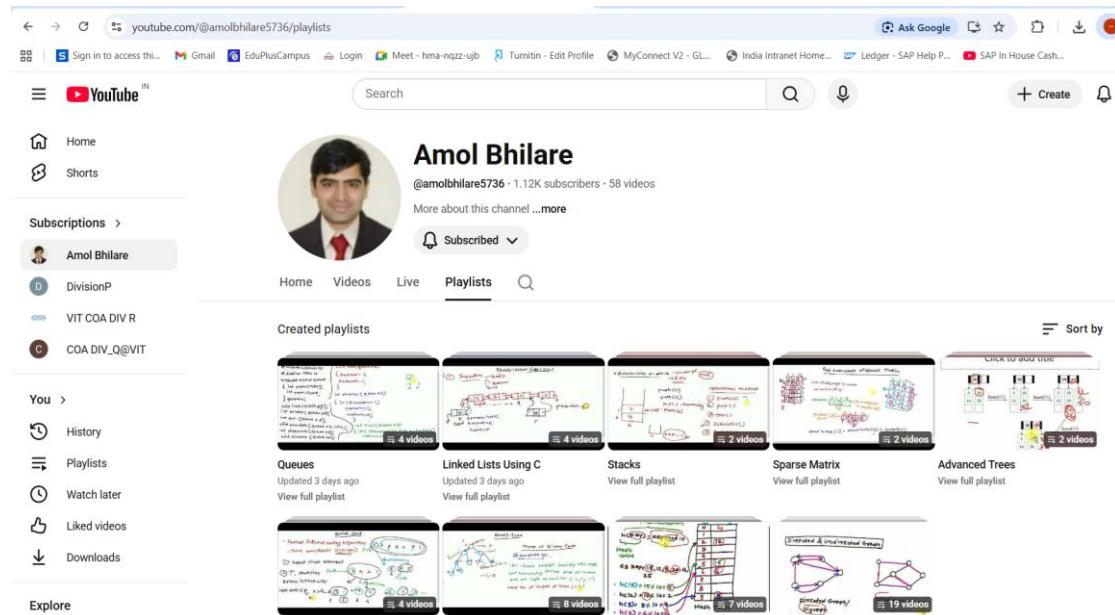
Name of Course: Data Structures

Topics covered:

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

Photos with caption:

YouTube Channel Home Page



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

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

Queues

- 1 Circular Queue
- 2 Double Ended Queue
- 3 Queue Implementation Using Linked Lists
- 4 Simple Linear Queue Implementation Using Array

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

Trees

- 1 BST Insertion
- 2 BST MIN Max height
- 3 BST Stack Frame insertion
- 4 Inorder Traversal
- 5 Preorder Traversals Examples
- 6 Trees Introduction

Prof. Amol A. Bhilare
Subject Teacher

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

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

Report on "Innovation by faculty in teaching learning process"

Name of faculty: Prof. Pushkar S. Joglekar

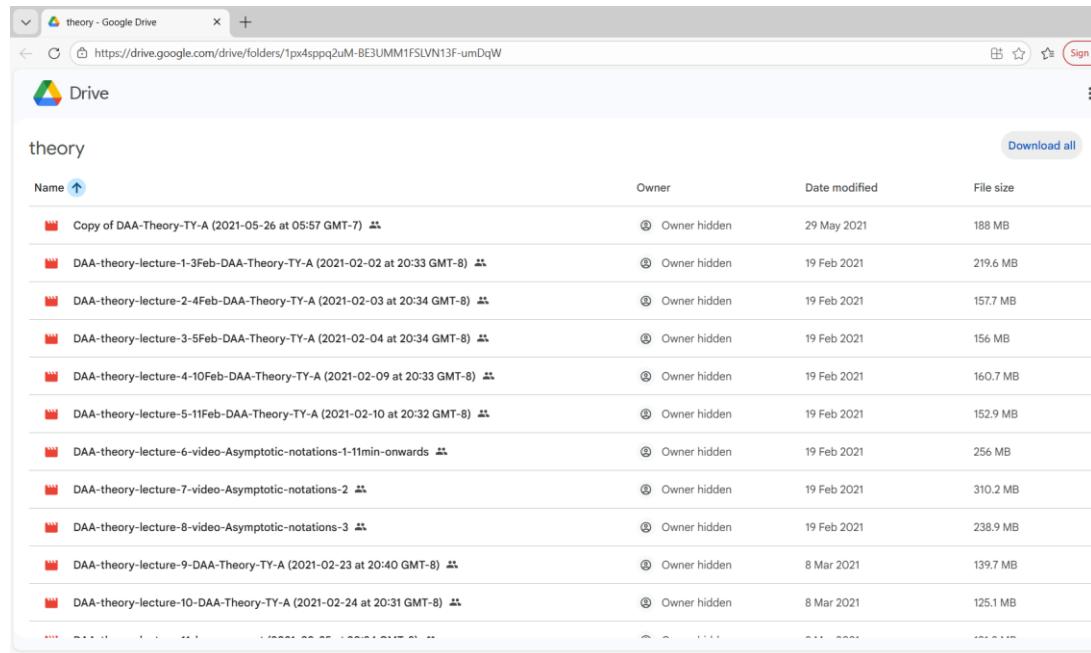
Name of Course: Design and Analysis of Algorithms

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



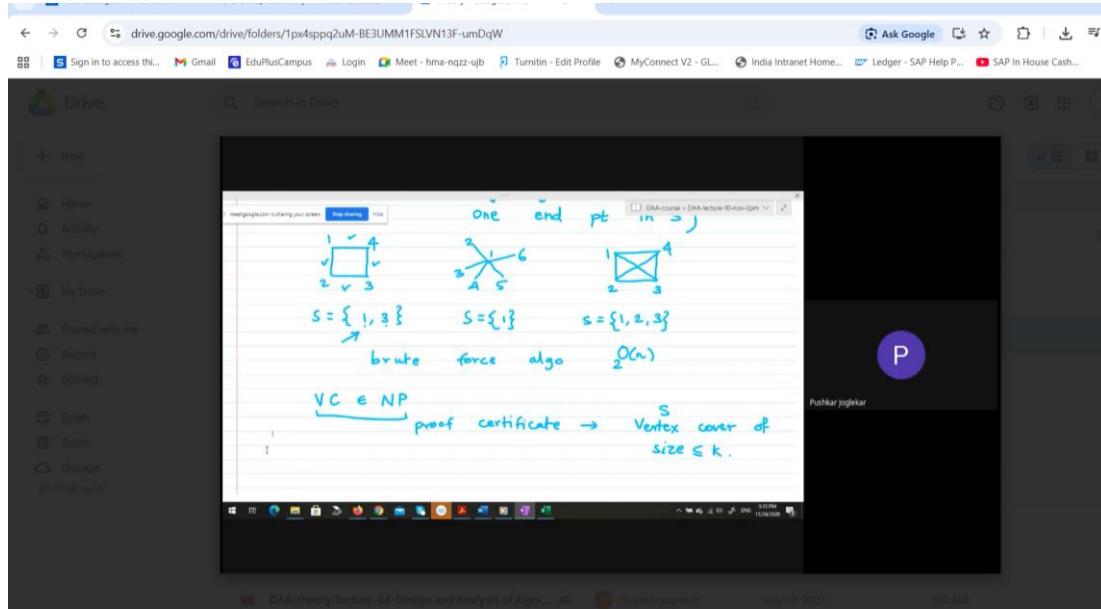
Name	Owner	Date modified	File size
Copy of DAA-Theory-TY-A (2021-05-26 at 05:57 GMT-7)	Owner hidden	29 May 2021	188 MB
DAA-theory-lecture-1-3Feb-DAA-Theory-TY-A (2021-02-02 at 20:33 GMT-8)	Owner hidden	19 Feb 2021	219.6 MB
DAA-theory-lecture-2-4Feb-DAA-Theory-TY-A (2021-02-03 at 20:34 GMT-8)	Owner hidden	19 Feb 2021	157.7 MB
DAA-theory-lecture-3-5Feb-DAA-Theory-TY-A (2021-02-04 at 20:34 GMT-8)	Owner hidden	19 Feb 2021	156 MB
DAA-theory-lecture-4-10Feb-DAA-Theory-TY-A (2021-02-09 at 20:33 GMT-8)	Owner hidden	19 Feb 2021	160.7 MB
DAA-theory-lecture-5-11Feb-DAA-Theory-TY-A (2021-02-10 at 20:32 GMT-8)	Owner hidden	19 Feb 2021	152.9 MB
DAA-theory-lecture-6-video-Asymptotic-notations-1-11min-onwards	Owner hidden	19 Feb 2021	256 MB
DAA-theory-lecture-7-video-Asymptotic-notations-2	Owner hidden	19 Feb 2021	310.2 MB
DAA-theory-lecture-8-video-Asymptotic-notations-3	Owner hidden	19 Feb 2021	238.9 MB
DAA-theory-lecture-9-DAA-Theory-TY-A (2021-02-23 at 20:40 GMT-8)	Owner hidden	8 Mar 2021	139.7 MB
DAA-theory-lecture-10-DAA-Theory-TY-A (2021-02-24 at 20:31 GMT-8)	Owner hidden	8 Mar 2021	125.1 MB

Bansilal Ramnath Agarwal Charitable Trust's
Vishwakarma Institute of Technology, Pune-37.

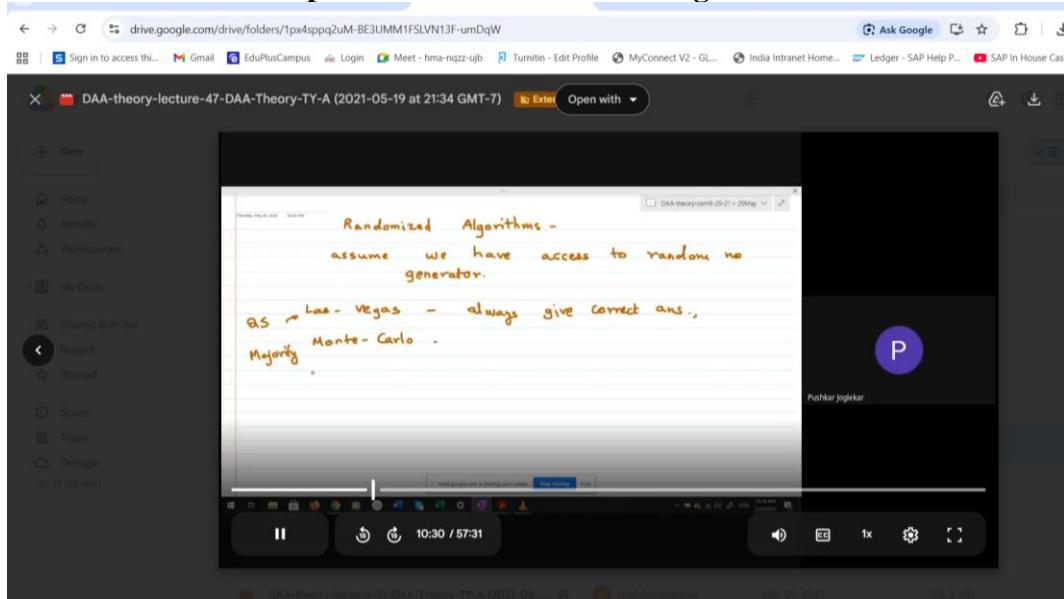
(An Autonomous Institute affiliated to Savitribai Phule Pune University)

Department of Computer Engineering

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.

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

Report on "Innovation by faculty in teaching learning process"

Name of faculty: Prof. Swati S. Jadhav

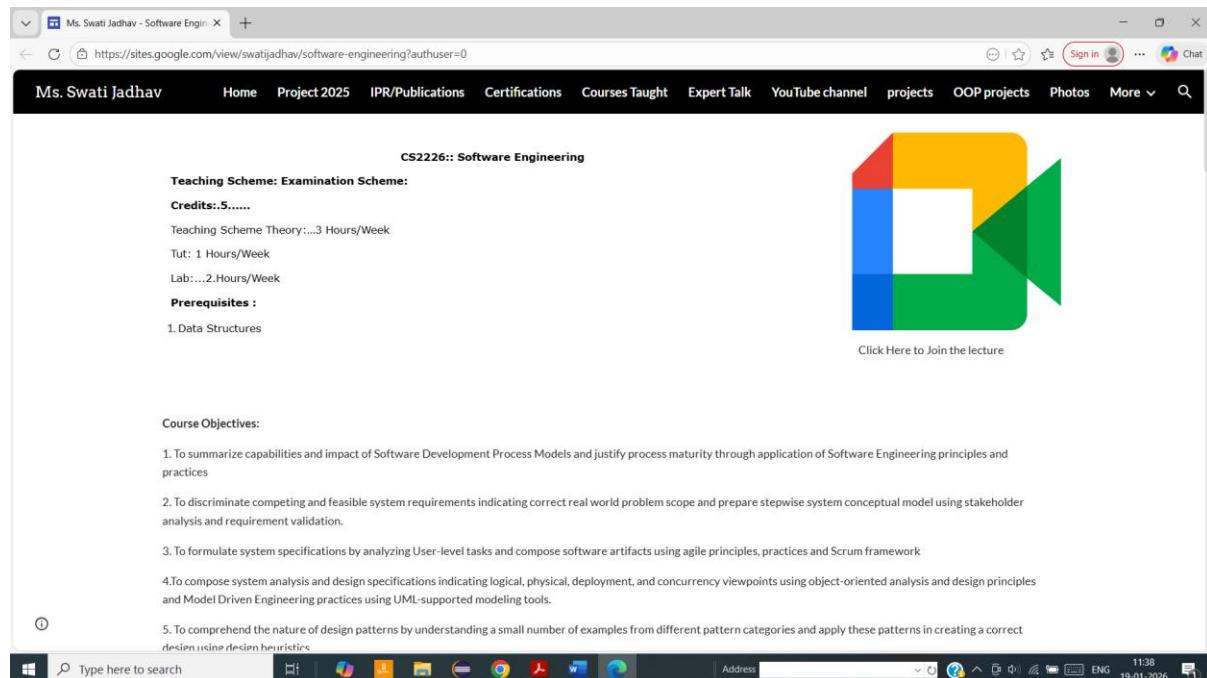
Name of Course: Software Engineering

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



CS2226:: Software Engineering

Teaching Scheme: Examination Scheme:

Credits: 5.....

Teaching Scheme Theory:...3 Hours/Week

Tut: 1 Hours/Week

Lab:...2.Hours/Week

Prerequisites :

1. Data Structures

Course Objectives:

1. To summarize capabilities and impact of Software Development Process Models and justify process maturity through application of Software Engineering principles and practices
2. To discriminate competing and feasible system requirements indicating correct real world problem scope and prepare stepwise system conceptual model using stakeholder analysis and requirement validation.
3. To formulate system specifications by analyzing User-level tasks and compose software artifacts using agile principles, practices and Scrum framework
4. To compose system analysis and design specifications indicating logical, physical, deployment, and concurrency viewpoints using object-oriented analysis and design principles and Model Driven Engineering practices using UML-supported modeling tools.

5. To comprehend the nature of design patterns by understanding a small number of examples from different pattern categories and apply these patterns in creating a correct design using design heuristics

Click Here to Join the lecture

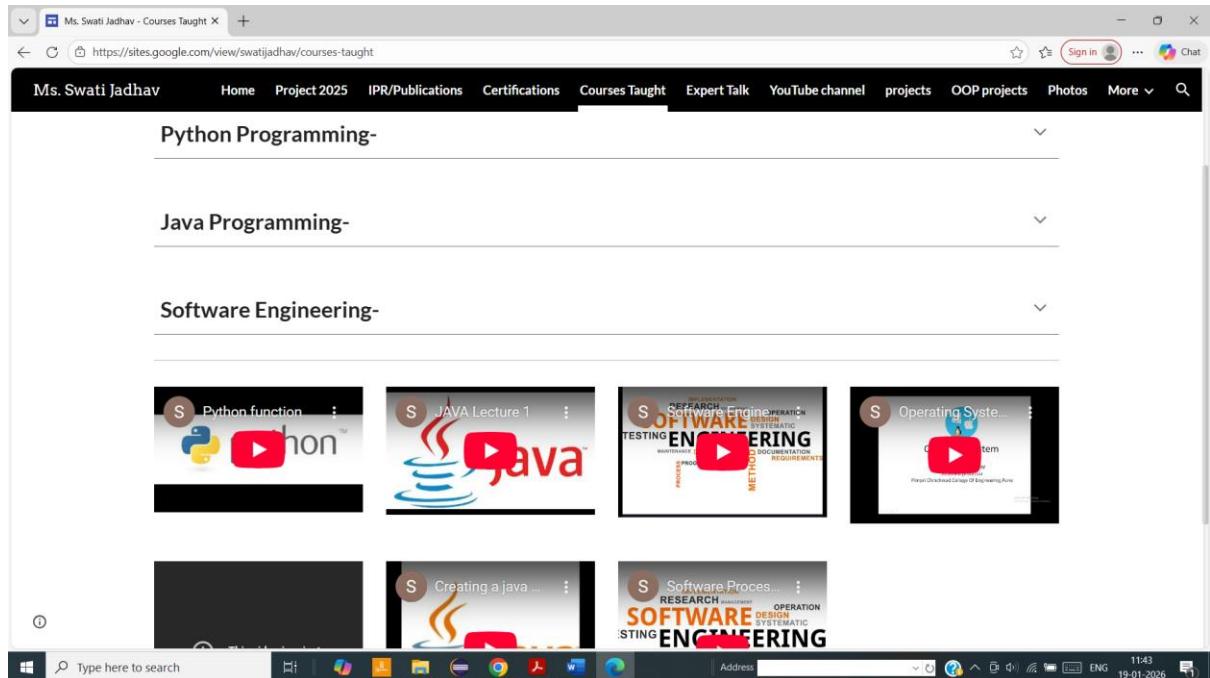
Type here to search Address 11:38 19-01-2026 ENG

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

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.