

Innovations by the Faculty in Teaching and Learning

1. Eabyas (Sri Vishnu Moodle LMS)

Sri Vishnu Learning Management System (LMS) helps institutes to provide online courses as part of their regular course curriculum and also offer complete online distance learning courses. Faculty can provide course materials, PPTs, video lectures etc. to students. This tool can also be useful for faculty to conduct quizzes, real time quizzes, games, assignments etc.

The image shows two screenshots of the Sri Vishnu Moodle LMS interface. The top screenshot is the login page, and the bottom screenshot is the user dashboard.

Login Page: The login page features the Sri Vishnu Universal Learning logo and the text "Sri Vishnu LMS". It includes a login form with fields for "Your Email *" and "Your Password", a "LOGIN" button, and a "Forgot Password?" link. The background is a blurred image of a building.

Dashboard: The dashboard is titled "Dashboard" and shows the user's profile information: PATHAN FAYAZ, Faculty, Email id: fayaz.p@vishnu.edu.in, College: N/A, and University: Vishnu Institute of Technology, Bhimavaram. On the right, there is a "Level up!" section with a progress bar showing 0% completion and a goal of 120% for the next level. Below this, there is a "RANKING" section showing three users with their scores: +101,703, +62,787, and +52,893.

		Search:	<input type="text"/>
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Program Details :	Course Details :
<p>Name : IV CE (2021-2025)</p> <p>Duration : 1 Year(s)</p> <p>Shortcode : IV_CE_2025</p> <p>Level : Under Graduation</p>	<p>Course Name : Prestressed Concrete Total Users : 60 <button>View</button></p>
<p>Program Details :</p> <p>Name : III CE (2022-2026)</p> <p>Duration : 1 Year(s)</p> <p>Shortcode : III_CE_2026</p> <p>Level : Under Graduation</p>	<p>Course Details :</p> <p>Course Name : Estimation, Costing and Contracts Laboratory Total Users : 0 <button>View</button></p>

Showing 1 to 2 of 7 entries

<
1
2
3
4
>

Dashboard / My courses / R20CE41T01_674_2422

Turn editing on

UNIT-1




UNIT-1

Introduction & Methods and Systems of pre-stressing: Historic development- General principles of prestressing, pretensioning and post tensioning- Advantages and limitations of Prestressed concrete- General principles of PSC- Classification and types of prestressing Materials- high strength concrete and high tensile steel their characteristics. Pretensioning and Posttensioning methods and systems of prestressing like Hoyer system, Magnel Blaton system, Freyssinet system and Gifford- Udall System- Lee McColl system. Flexure: Analysis of sections for flexure- beams prestressed with straight, concentric, eccentric, bent and parabolic tendons, Line of Thrust - Pressure Line, Load Balancing Concept.

UNIT-2

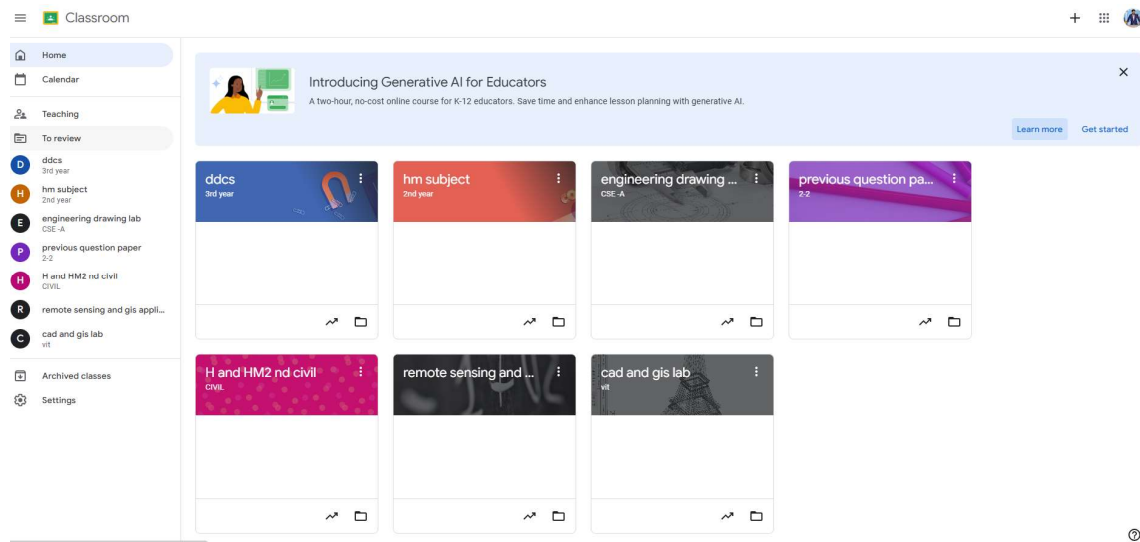
UNIT-2

Losses of Pre-stressing: Loss of Pre-stress in pre-tensioned and post tensioned members -Elastic shortening, shrinkage, and creep of concrete; Relaxation of steel, slip in anchorage, and frictional losses- Total loss and allowable loss of prestress for design.

	<h2>ASSIGNMENT-1</h2> <p> ASSIGNMENT-1 <input checked="" type="checkbox"/></p> <p>Restricted Not available unless:</p> <ul style="list-style-type: none">• It is after 23 July 2024, 5:00 PM• It is before 3 August 2024, 5:00 PM <p>Concept related to Pre Tensioning and Post Tensioning Devices, Analysis of Prestress, Losses of Prestress in all the cases, Design of Flexure related to Rectangular and T-Section.</p>
	<p> ASSIGNMENT-2 <input checked="" type="checkbox"/></p> <p>Restricted Not available unless:</p> <ul style="list-style-type: none">• It is after 4 October 2024, 9:00 AM• It is before 9 October 2024, 5:00 PM <p>Design of Shear,Torsion,Composite Structures,Flanged Structures</p>
	<p> ASSIGNMENT-2 <input checked="" type="checkbox"/></p> <p>Deflections,Institute and Differential shrinkage and Shear stress</p>

2. Google Classroom

Google Classroom is an application designed to enhance the learning experience which is incorporated in our teaching learning process. It helps to interact with students 24 X 7, by posting technical contents, notes, and assignments and also facilitates to conduct and evaluate online quizzes. The tools offer opportunities for collaboration in real time and the ability to work remotely. A sample of Google classroom used in the class is given the figure



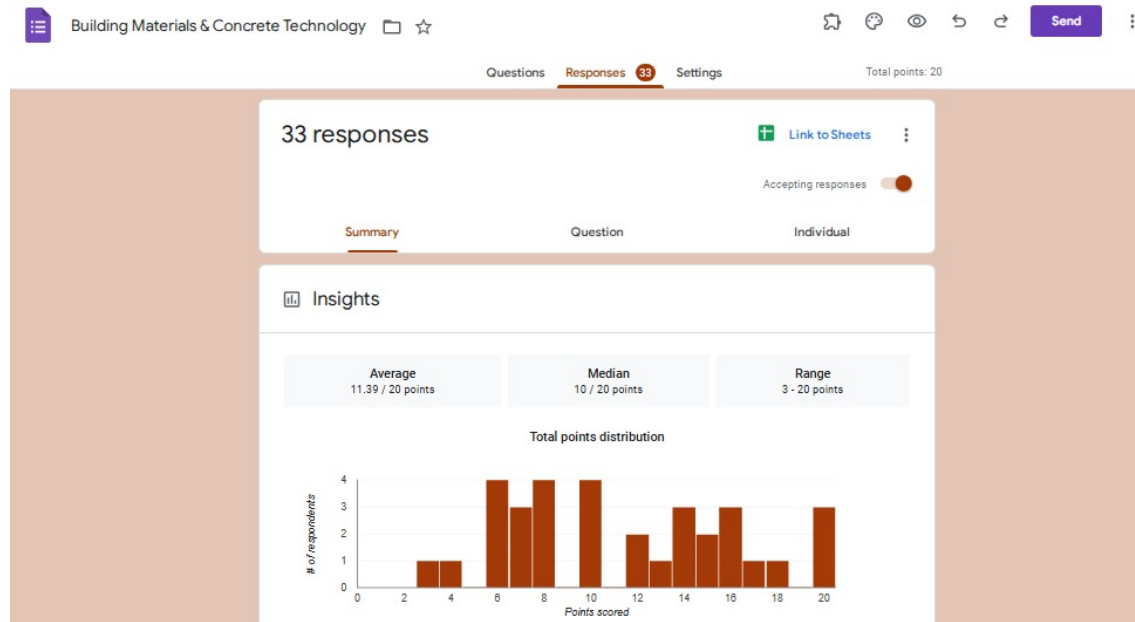
3. Kahoot

Kahoot (<https://getkahoot.com/>) is a free student-response tool for conducting quizzes, facilitating discussions, and collecting survey data. It is a game-based classroom response system played in real time. Questions are projected on a shared screen, while players answer the questions with their Smartphone, tablet or computer, creating a social, fun and game-like environment. Kahoot allowed us to design multiple-choice quizzes as well as polls and surveys that our faculty could populate on-the-spot data. Some of the photographs taken during the activity are shown in figure



4. Google Forms

Google Classroom is a free web-based learning platform, where teachers can run a class online, create curriculums, and share assignments with students in a paperless way. The platform simplifies teacher student collaboration by leveraging the various G Suite services like Google Docs (<https://hiverhq.com/blog/ultimate-guide-google-docs>), Sheets (<https://hiverhq.com/blog/definitive-guide-google-sheets>), and Slides. Teachers can create assignments using learning material like YouTube videos, Google Form surveys or PDFs from the drive. The screen shots of usage of Google forms in the class is shown in figure



Building Materials & Concrete Technology

Questions Responses **33** Settings Total points: 20

Formula for quick lime, is 10 / 33

Register No
33 responses

21pa1a0122
21pa1a0132
21pa1a0125
21pa1a0124
21pa1a0103
21PA1A0141
21PA1A0111
21pa1a0106
21pa1a0118

5. Mind Maps

A Mind Map is a diagram for representing tasks, words, concepts, or items linked to and arranged around a central concept or subject using a non-linear graphical layout that allows the user to build an intuitive framework around a central concept. It can turn a long list of monotonous information into a colorful, memorable and highly organized diagram that works in line with your brains natural way of doing things. A Mind Map is an easy way to brainstorm thoughts organically without worrying about order and structure. It allows you to

visually structure your ideas to help with analysis and recall. The Mind Map used for the Engineering Mechanics class is shown in figure.

Mind mapping is a highly effective way of getting information in and out of your brain. Mind mapping is a creative and logical means of note-taking and note-making that literally "maps out" your ideas. Mind mapping converts a long list of monotonous information into a colorful, memorable and highly organized diagram.



PREFAB TECH'S

Modular Construction

- In modular construction, buildings are divided into sections, or modules, which are manufactured off-site. Each module is a fully finished space that includes walls, flooring, ceilings, doors, and even interior fixtures. Once completed, the modules are transported to the site, where they are assembled into the building structure.
- This technique is highly efficient and can significantly reduce construction time, as it is especially popular for projects like hotels, apartment buildings, and office spaces.

Introduction To Prefabricated Construction

Techniques

Prefabricated construction, or 'prefab', is a building process where components are manufactured off-site in a controlled environment and then transported to the construction site for assembly. This technique is becoming increasingly popular due to its efficiency, cost-effectiveness, and sustainability.

Precast Concrete Construction

- Precast concrete involves creating concrete elements in a factory environment and then transporting them to the site for assembly. Components include beams, columns, slabs, and flooring.
- Some elements are known for their durability, fire resistance, and ability to support heavy loads, making this technique ideal for industrial and commercial buildings.

Panelized Construction

- Panelized construction involves manufacturing walls, floors, or roof panels in a factory and then assembling them on-site. Unlike modular units, which are three-dimensional, panels are two-dimensional elements.
- This method is flexible, allowing designers and builders to create a wide range of architectural styles. It is commonly used in residential construction, where panels are often made of wood, steel, or concrete.

Steel Frame Construction

- Steel framing is a traditional method involving the construction of a frame of steel beams and columns. These frames are then filled with masonry or other materials to create the walls and floors.
- Steel frames are highly durable and resistant to natural disasters, and they can be easily modified during construction.

3D Printing

- Although still emerging, 3D printing is being used in construction to create building components, including walls and structural elements, using a process called concrete 3D printing.
- This technique allows for the creation of complex, custom shapes and structures, potentially reducing waste and improving efficiency.

Name	
Branch	IT
Roll No.	
Title	Prefabricated Techniques
Section	

Railway Engineering

Components of Railway track

- Maintenance and Inspection
- Construction
- Environmental Consideration
- Stakeholder Engagement

Integration with Transportation

- Safety measures
- Engineering Design
- Route selection
- Feasibility Study

Ensure Compliance with Safety regulations, including the installation of safety barriers, warning signs, fire protection systems, and emergency response measures.

Co-ordinate the railway project with existing transportation systems, such as road networks and airports, to enhance connectivity and facilitate seamless intermodal transportation.

Develop a Comprehensive map Plan for the railway infrastructure to ensure safe and efficient travel. This includes regular inspection, track maintenance, equipment, staff training.

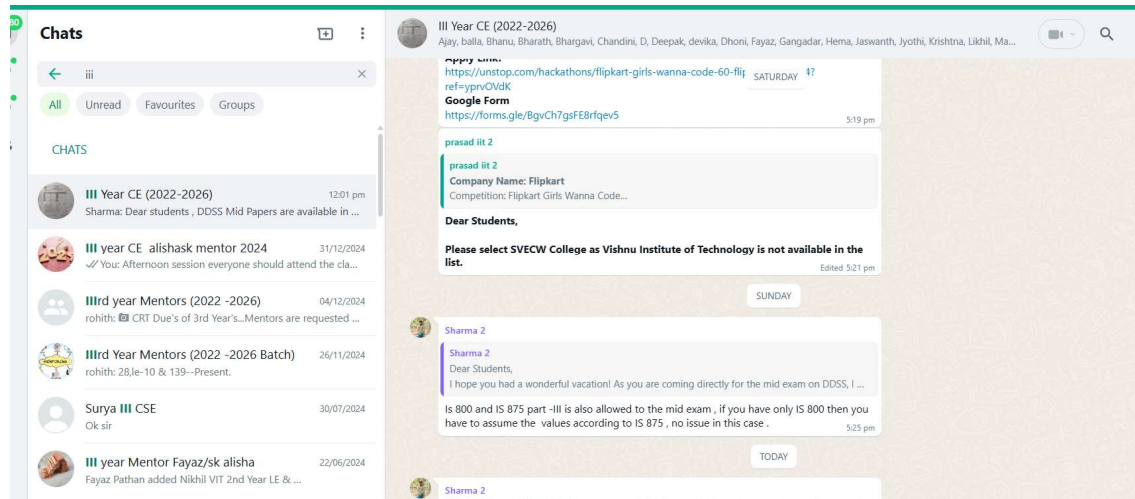
Develop detailed Engineering plans that include the layout of tracks, stations, signaling systems, bridges, tunnels, and other necessary structures.

Implement the Construction Plan including grading, excavation, track laying, station building, electrification, and the installation of signaling and communication systems.

Ensure the railway infrastructure is designed to be sustainable and resilient, taking into account environmental factors and future technological advancements.

6. WhatsApp

The course materials are distributed among the students by the subject teacher much ahead of the class scheduled to be taught. Faculty shares the study materials among the students through WhatsApp. The communication about sharing of subject material is shown in figure.



7. Edpuzzle

Edpuzzle is a web-based interactive video and formative assessment tool that allows users to crop existing online videos and add content for target specific learning objectives. Faculty custom search the extensive library of available videos and edit them with voice-overs, embedded assessment questions and when deemed necessary they upload their own videos and additional resources through this application. Faculty also draw from the site's curriculum content, assign due dates and prohibit students from fast forward watching through the video. Faculty view student's scores and progress over time as well as the length of time students took to complete a given assignment. The usage of Edpuzzle tool during the class is shown in figure

Edpuzzle

edpuzzle.com/assignments/64b0d933f125fb41b153c2b0/watch


GmailYouTubeMapsYouTube Download...Sri Vishnu LMS: Log...How much quantity...Faculty Improve...VIT 2022 batch ToB...NITTTR ChandigarhCEVIT DATA - Goog...

edpuzzleEnglish

Leave open class

← Video Assignment

▶ Watch again



◆ Another lesson down! ◆

Got something more you want to say?
You have to revise your open-ended answers and improve your grade.

Edit open-ended answers

Submit

Answers Summary

1 correct, 1 to be graded

Activate Windows

Go to PC settings to activate Windows.

11:04 AM

7/14/2023

(8) WhatsAppVEDIC FIP Blended TeInbox (913) - saikumarInbox (884) - saikumarEdpuzzlescreencastify - Google

edpuzzle.com/media/64afdd32ea70ae419df78582

GmailYouTubeMapsYouTube Download...Sri Vishnu LMS: Log...How much quantity...Faculty Improve...VIT 2022 batch ToB...NITTTR ChandigarhCEVIT DATA - Goog...

☒ Week1_SOM-I

0... Week1- Strength of Materials-I

+ Add new class

Cancel

Assign

Start date

Today10:00am

Due date

Today11:00am

Attempts

Choose how many times students can do the assignment. This feature is not currently available for mobile. [Learn more](#)

2

ON Prevent skipping

OFF Turn on CCs

Activate Windows

Go to PC settings to activate Windows.

10:42 AM

The screenshot shows the 'Video Assignment' interface on edpuzzle.com. The video title is 'An Introduction to Stress and Strain' by Sai Kumar K S CE. The assignment is set for 'Today' with a start date of 10:00am and a due date of 11:00am. It shows '1 Answer to grade' and options for 'Live mode' and 'Share assignment'. Below the video player, there is a 'Students' table with columns for Student Name, Watched, Grade, Attempts, Last watched, and Turned in. The table lists one student, 'sai', who has watched the video, has a grade of '-', 1/2 attempts, and was last watched 'a minute ago'. The 'Turned in' status is 'Not turned in'. The interface also includes a search bar, a '+ Add Content' button, and a 'Prevent skipping' toggle.

Student Name	Watched	Grade	Attempts	Last watched	Turned in
sai		-	1/2	a minute ago	Not turned in

The screenshot shows the video player interface for 'An Introduction to Stress and Strain'. The video is at 00:40 of 01:14. The player includes a progress bar, play/pause button, and volume controls. On the right side, there is a summary panel showing 'Video completed 100%', 'Attempts 1', 'Correct responses 1/2', and 'Grade To be graded'. The interface also includes a 'Leave open class' button and a search bar.

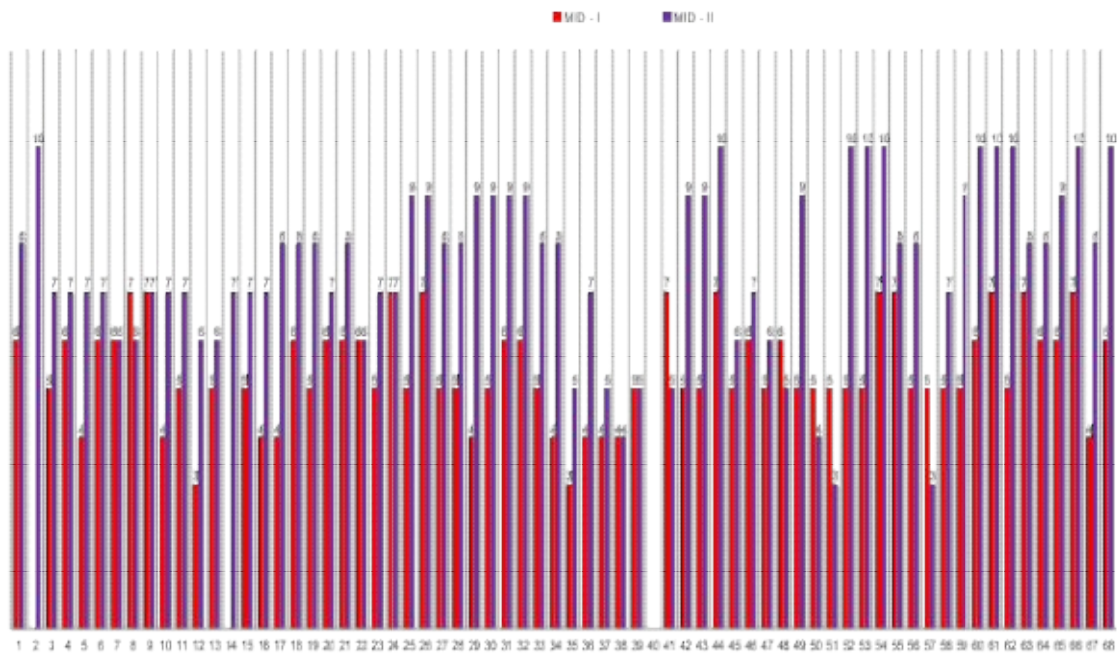
8. Plickers

It is a free card class activity for student assessment. Students will not use any device. Instead, they will use coded cards which can be scanned by the activity organizing member. When a question is asked by the faculty, students will raise the card for the answer of his choice. Organizing member will scan all the cards. Plickers will count the responded cards for each answer and will display. Later correct answer will also be displayed. Students will enjoy the activity. It is a quick and simple way of assessing the student understanding of the topic taught in class. Plickers photographs are shown in figure

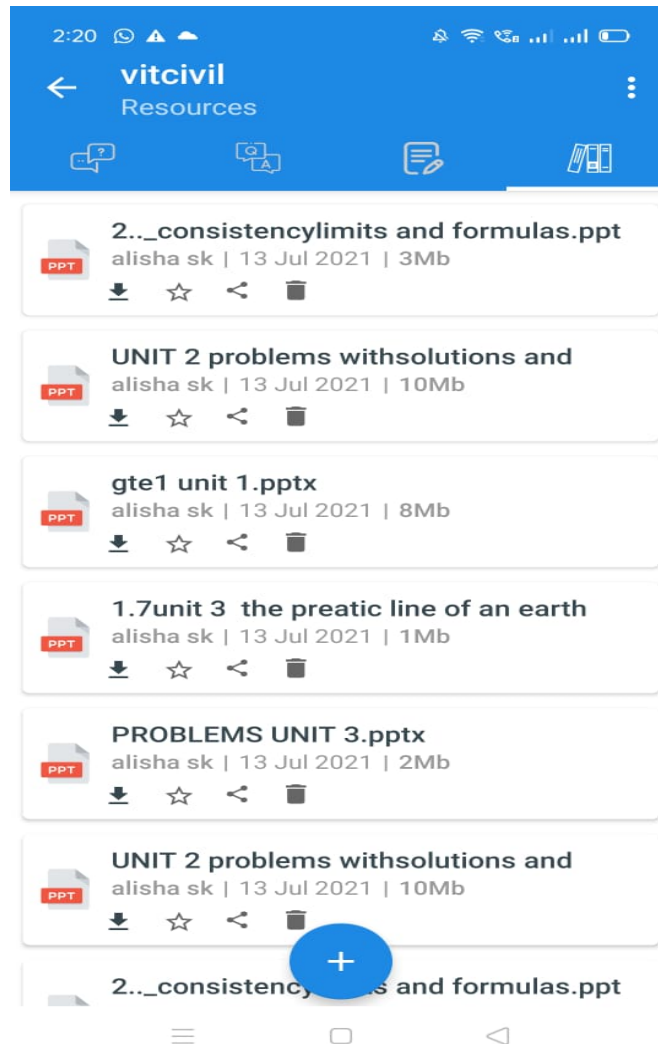
Plickers is an assessment tool made by a teacher who was looking for a quick and simple way to check student understanding. This assessment tool allows teachers to collect on-the-spot formative assessment data without the need to have students use devices or paper and pencil.

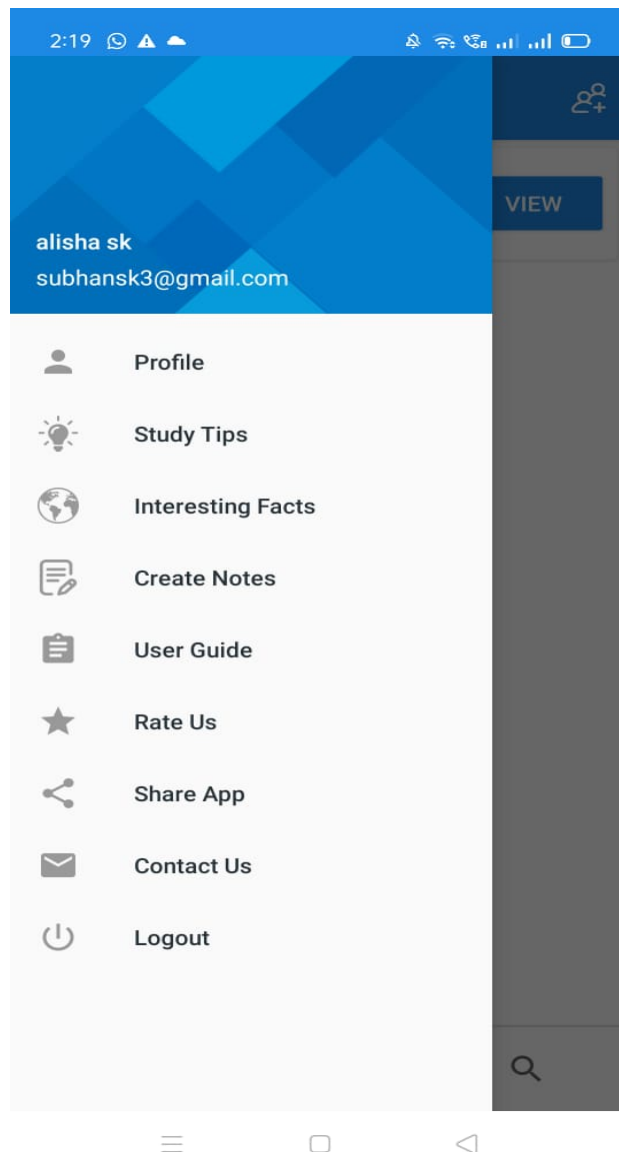


PLICKERS ASSESSMENT

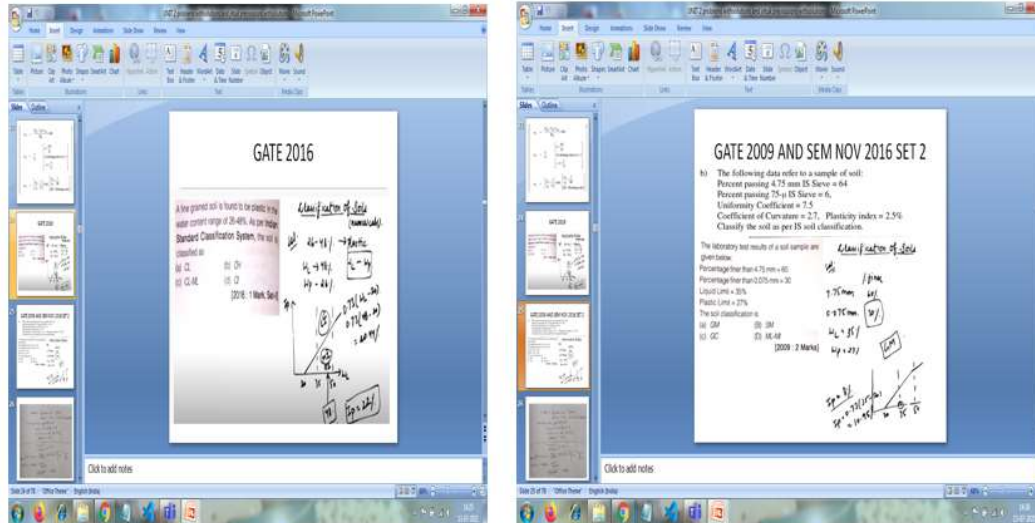


9. MATERIAL SHARING THROUGH THE APP (concur)

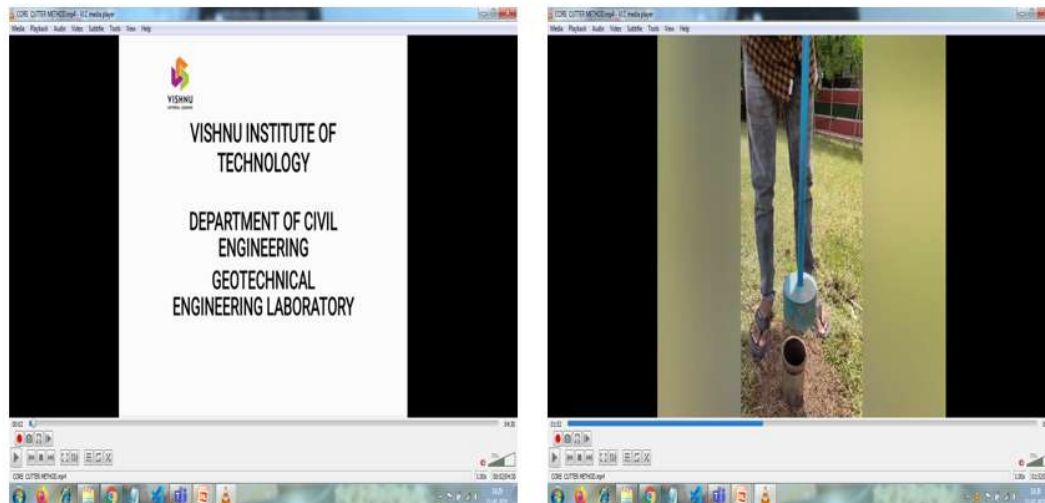




GATE ORIENTED CLASSES THROUGH SELF PREPARED MCQS & PREVIOUS PAPERS





SELF MADE LABORATORY VIDEOS FOR PRACTICAL UNDERSTANDING



NPTEL

NPTEL provides E-learning through online Web and Video courses in various streams. Faculty of CE department is certified in various Civil Engineering and other inter discipline courses in NPTEL and Swayam. It also provides Faculty Development Programs certifications for specified courses. The students are also motivated to complete the online courses through Swayam. Some faculty are acted as mentors for certain courses to assist students for effective learning. The following are some of the completed course certificates by our faculty.



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to

PATHAN FAYAZ

for successfully completing the course



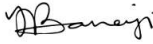
Cloud Computing

with a consolidated score of **83** %

Online Assignments	25/25	Proctored Exam	58.34/75
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Total number of candidates certified in this course: **30816**

Jul-Oct 2024
(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

SHAIK SUBHAN ALISHA

for successfully completing the course

Geotechnical Engineering - 1

with a consolidated score of **49** %

Online Assignments	12.91/25	Proctored Exam	36.55/75
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Total number of candidates certified in this course: **88**

Jan-Apr 2024

(12 week course)

Prof. Sridhar Iyer
Head CDEEP & NPTEL Coordinator
IIT Bombay



Indian Institute of Technology Bombay



SWAYAM ONLINE COURSE CERTIFICATION

This Certificate is awarded to

K S SAI KUMAR

for successfully completing the 2 credit course

Concrete Technology

with a consolidated score of 87% marks

in the proctored examination held on 02.12.2023

offered by Munish Kumar Bhardwaj of

Indira Gandhi National Open University, New Delhi



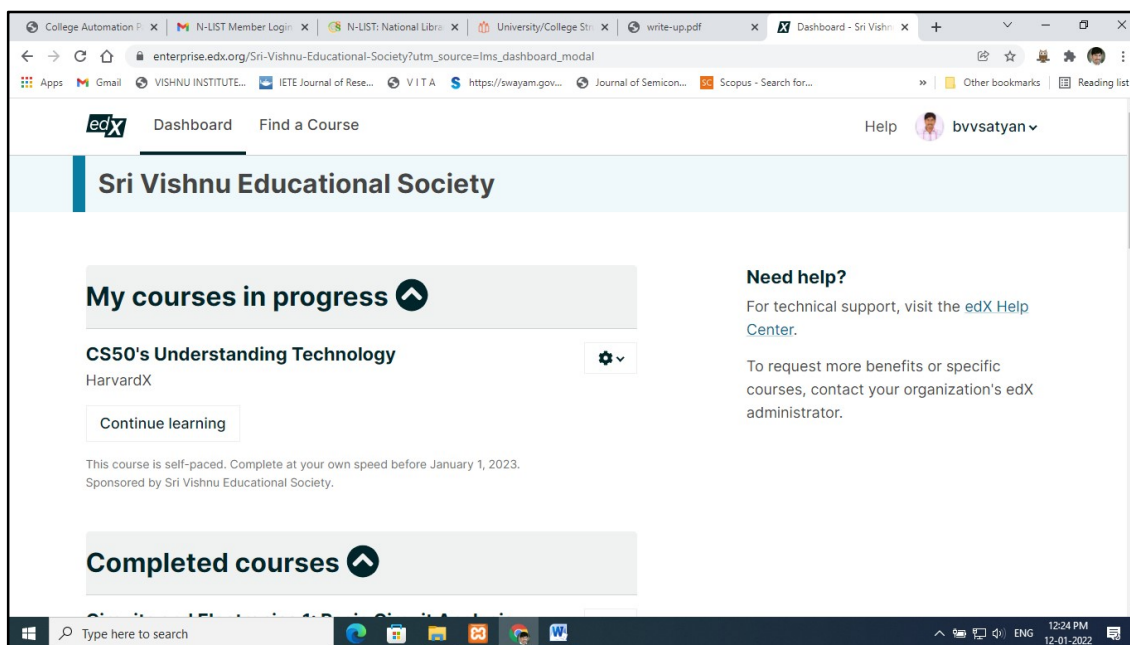
Roll No: AP18010193

Prof. Uma Kanjilal
National Coordinator
Indira Gandhi National Open University, New Delhi

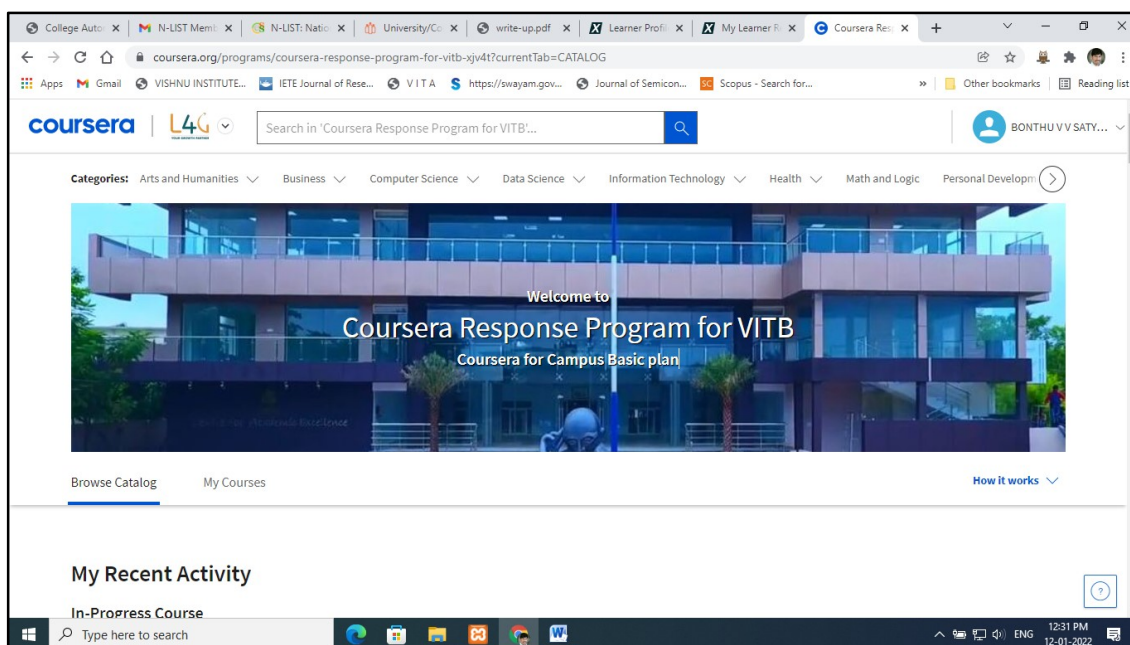
V.B. Negi
Registrar, SED
Indira Gandhi National Open University, New Delhi

Issued On: 25-12-2023

To validate and check scores: <https://swayam.gov.in/>



Coursera: <https://www.coursera.org/programs/coursera-response-program-for-vitb-xjv4t?currentTab=CATALOG>



The following are some of the e-sources available in digital library to access various reputed journals and books for teaching and learning.

S. No.	Name of the Online E-Source Package
1	N-List Programme : http://nlist.inflibnet.ac.in
2	DELNET: www.delnet.in
3	National Digital Library of India : https://ndl.iitkgp.ac.in/
4	The Teaching Professor: https://www.teachingprofessor.com/category/topics/teaching-strategies/teaching-with-technology/

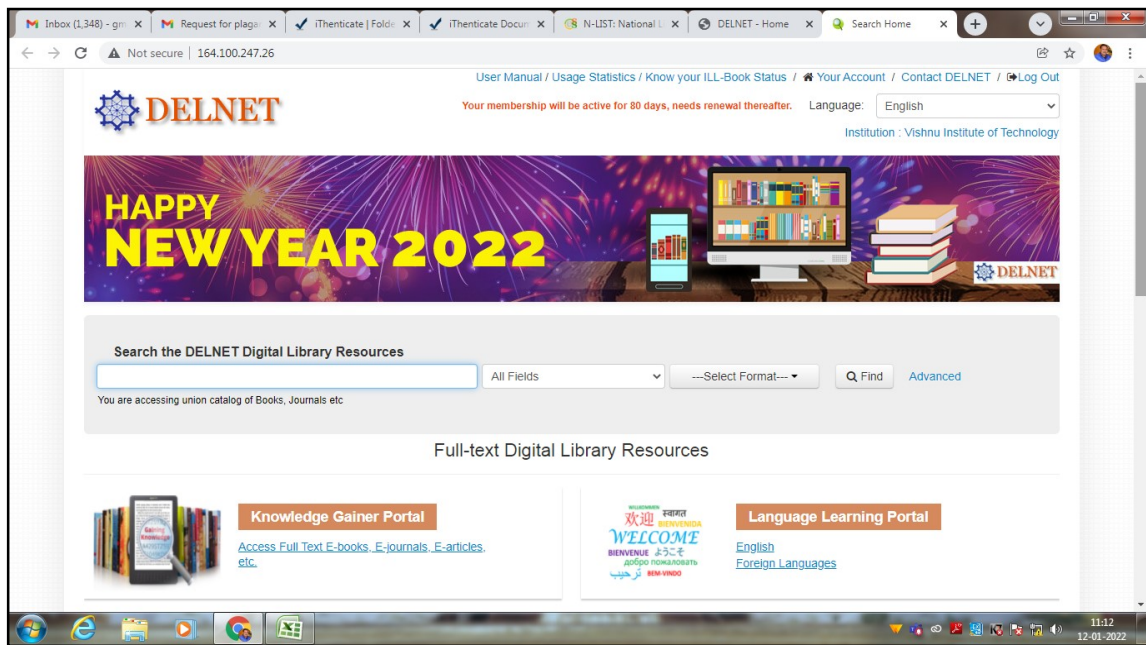
1. N-List Programme: <http://nlist.inflibnet.ac.in>

The screenshot shows the N-List Admin Dashboard for Vishnu Institute of Technology. The dashboard includes a sidebar with navigation options like Dashboard, Users Details, Upload Bulk Users, Activate Bulk Users, Member Delete list, Usage Statistics, Invoice / Receipt, Activity Log, Change Password, and Logout. The main content area displays the following information:

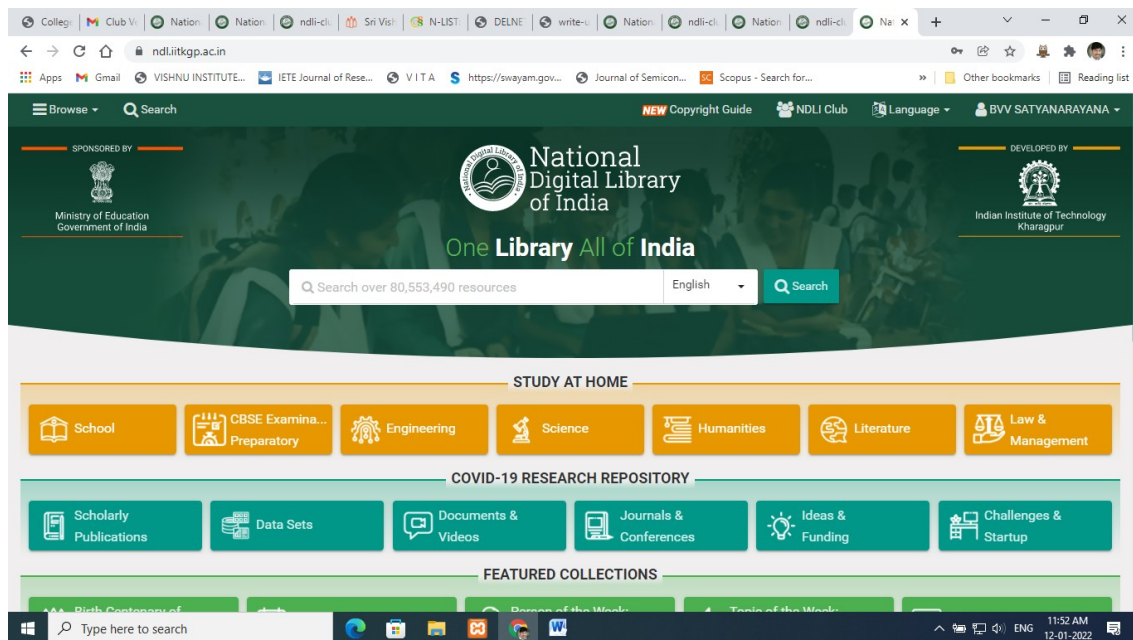
- Vishnu Institute of Technology**
 - Address: Vishnu Institute of Technology, Bhimavaram, Andhra Pradesh - 534202
 - Website: vishnu.edu.in
 - AISHE Code: C-18099
 - GST No: Not Found (Add GST No)
- User Statistics**
 - 45 Active Users
 - 0 Expired Users
 - 152 Pending Users
 - 0 Delete Request
- Principal Details**
 - Dr. Dasika Suryanarayana
 - info@vishnu.edu.in
 - 08816251333, 098866092550
- N-List College Admin Details**
 - Dr. Y M V Naga Raja Rao
 - librarian@vishnu.edu.in
 - 08179952892
- Technical Person Details**
 - P Venkatesh
 - venkatesh.p@vishnu.edu.in
 - 07661087666

The bottom of the dashboard features sections for Useful Links, Other Links, Contact Us, and Email Us. The browser's taskbar at the bottom shows the time as 11:10 on 12-03-2022.

2.DELNET: www.delnet.in



3. National Digital Library of India: <https://ndl.iitkgp.ac.in/>



4. The Teaching Professor:

<https://www.teachingprofessor.com/category/topics/teaching-strategies/teaching-with-technology/>

College Automation Package x Teaching with Technology Archiv x Gmail: Free, Private & Secure Em x Sri Vishnu LMS: Log in to the site x +

teachingprofessor.com/category/topics/teaching-strategies/teaching-with-technology/


Apps Gmail VISHNU INSTITUTE... NJ E-Wealth Account IETE Journal of Rese... V I T A https://swayam.gov... Scopus - Search for... Other bookmarks Reading list

Hello, Dr. B V V My Account Log Out

THE Teaching PROFESSOR

HOME TOPICS RESOURCE COLLECTIONS SPECIAL SERIES AND FEATURES 20-MINUTE MENTOR ANNUAL CONFERENCE ABOUT US

Category: Teaching with Technology




ONLINE TEACHING AND LEARNING, TEACHING WITH TECHNOLOGY

lorad: A Game Changer for Tutorials

John Orlando • March 14, 2022

As a teacher I find myself constantly making video tutorials for students, colleagues, and others. These can be steps for completing an assignment, such as posting to a Padlet board, or for processes, like setting ...



ONLINE TEACHING AND LEARNING, TEACHING WITH TECHNOLOGY

Inject Active Learning with Follow-Along Lessons

John Orlando • February 14, 2022

Nearly all teachers today use PowerPoint or Google Slides presentations to accompany their synchronous lessons. At the same time, students have laptops, tablets, or smartphones open during face-to-face classes. This offers teachers the option of ...

Type here to search

03:00 PM 15-03-2022

College Automation P x Teaching with Techno x Gmail: Free, Private & x Sri Vishnu LMS: Log i x National Board of Acc x e-NBA x +

teachingprofessor.com/category/topics/teaching-strategies/teaching-with-technology/

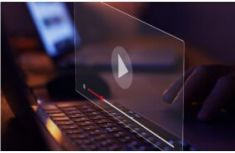
Apps Gmail VISHNU INSTITUTE... NJ E-Wealth Account IETE Journal of Rese... V I T A https://swayam.gov... Scopus - Search for... Other bookmarks Reading list

Hello, Dr. B V V My Account Log Out

THE Teaching PROFESSOR

HOME TOPICS RESOURCE COLLECTIONS SPECIAL SERIES AND FEATURES 20-MINUTE MENTOR ANNUAL CONFERENCE ABOUT US

Category: Teaching with Technology



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Type here to search

03:36 PM 15-03-2022