

## 5.6 A. TECHNOLOGY-ENHANCED TEACHING LEARNING

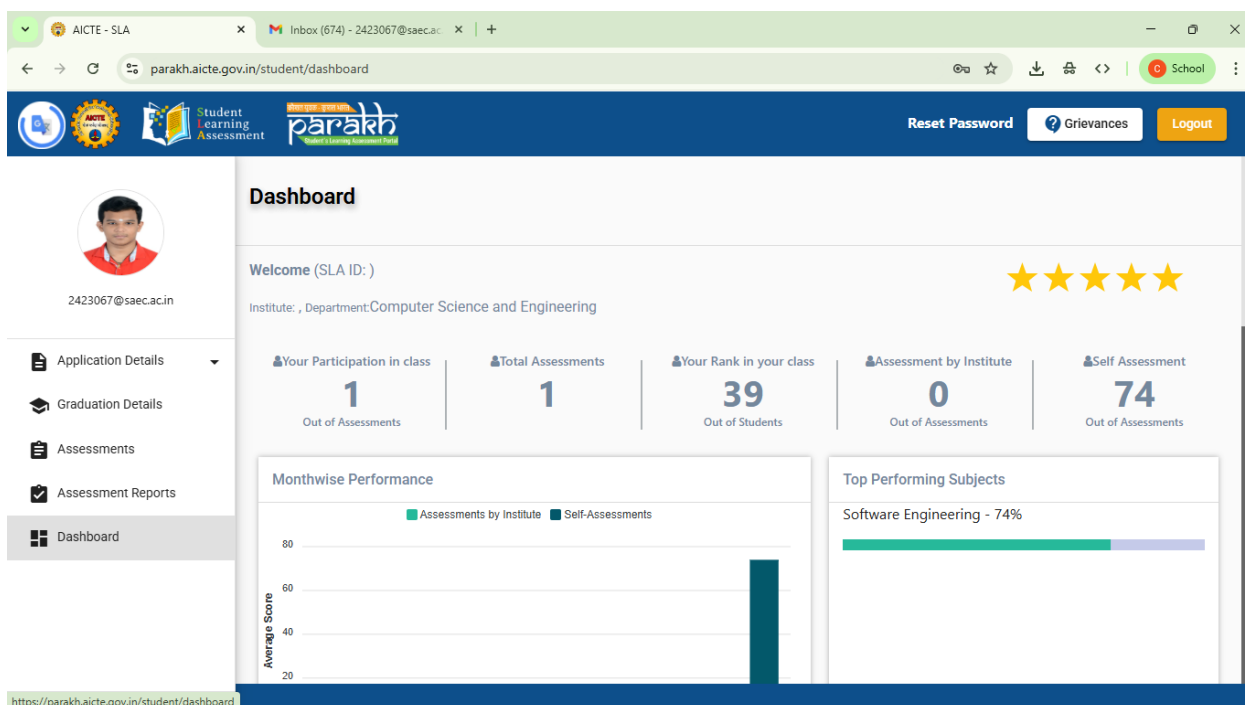


This screenshot shows the 'Self Assessment' page of the Parakh Learning Assessment Portal. The browser address bar shows 'parakh.aicte.gov.in/student/all-assessments'. The page has a blue header with the portal's name and a 'parakh' logo. A left sidebar contains a user profile and a menu with 'Assessments' selected. The main content area features a green box with a 'SELF ASSESSMENT' title, a pencil icon, and statistics: 'Total Questions: 100' and 'Total Time: 100'. A 'Take Test' button is at the bottom of the box. At the bottom of the page, a footer note states: 'The language translation is done by Google and it is for student convenience. However, AICTE does not validate'.

### *Parakh Learning Assessment Portal*

This screenshot shows the 'Assessment Reports' page of the Parakh Learning Assessment Portal. The browser address bar shows 'parakh.aicte.gov.in/student/assessment-reports'. The page layout is similar to the previous screenshot, but the main content area displays a table of assessment reports. A search bar is located above the table. The table has columns for S.No., Specialization, Type, Year, Date, Status, Overall Rating, and View Report. One report is listed with a 5-star rating. At the bottom, there is a pagination control showing 'Items per page: 5' and '0 of 0'. A footer note at the bottom of the page reads: 'case of any issue please refer to English language . • Assessment for Students is OPEN. Kindly Submit "Assessment by Institute" from the Assessment TAB. Incase "Assessment'.

### *Parakh Learning Assessment Report Window*



***Parakh Learning Portal Dashboard***



***Tech-enhanced interactive digital board with good internet***

*Classrooms are well-equipped with ICT tools such as Interactive Panel Board, projectors, computers, internet connectivity etc., Smart classroom teaching leverages these technologies to create a more interactive and engaging learning environment to the students.*

# FLIPPED CLASSROOM

← → ↻ saec.ac.in/departments/it/video-lecture-it/

ROVAN SAEC AMIRTA AMIRTA MAIL SAEC MAIL C Program 2nd Yr Aptitude Bus... 3rd Yr Aptitude Bus...

(044) 2680 1999 saec@saec.ac.in Thiruvarkadu, Chennai, India. TNEA Counselling Code: 1114

S.A. ENGINEERING COLLEGE  
(Autonomous Institute Awarded Status) (Affiliated to Anna University, Chennai)  
Recognized by AICTE, N. Grade B (2015-2017) (Self-Declared Institution)

HOME ADMISSIONS ABOUT US DEPARTMENTS ACADEMICS PLACEMENT RESOURCES STUDENTS LIFE @ CAMPUS

Department YouTube WebLink  
<https://www.youtube.com/channel/UCFYNYmS6BWS4xyqEZk8oRw>

| S.NO | REFERENCE MATERIAL                 | YOUTUBE LINK  |
|------|------------------------------------|---|
| 1    | Data Structure                     | <a href="https://www.youtube.com/watch?v=eiFpOne2YIA">https://www.youtube.com/watch?v=eiFpOne2YIA</a> |
| 2    | C#                                 | <a href="https://www.youtube.com/watch?v=ful7rh4TsxQ">https://www.youtube.com/watch?v=ful7rh4TsxQ</a> |
| 3    | Cryptography and Network Security  | <a href="https://www.youtube.com/watch?v=5Kto0zw69rg">https://www.youtube.com/watch?v=5Kto0zw69rg</a> |
| 4    | Microprocessor and MicroController | <a href="https://www.youtube.com/watch?v=cosNk5Fso1Q">https://www.youtube.com/watch?v=cosNk5Fso1Q</a> |
| 5    | Analog and Digital Communication   | <a href="https://www.youtube.com/watch?v=NGWZrhstY90">https://www.youtube.com/watch?v=NGWZrhstY90</a> |
| 6    | Analog and Digital Communication   | <a href="https://www.youtube.com/watch?v=foSyPcJlwSI">https://www.youtube.com/watch?v=foSyPcJlwSI</a> |
| 7    | Algebra and Number Theory          | <a href="https://www.youtube.com/watch?v=SC7G1LiYFy8">https://www.youtube.com/watch?v=SC7G1LiYFy8</a> |
| 8    | Big Data Analytics                 | <a href="https://www.youtube.com/watch?v=zKFxznBuHMI">https://www.youtube.com/watch?v=zKFxznBuHMI</a> |
| 9    | C# and .Net                        | <a href="https://www.youtube.com/watch?v=MpqbGGXvrDg">https://www.youtube.com/watch?v=MpqbGGXvrDg</a> |
| 10   | Computer Graphics and Multimedia   | <a href="https://www.youtube.com/watch?v=LHG61o4Lx3A">https://www.youtube.com/watch?v=LHG61o4Lx3A</a> |
| 11   | Computer Graphics and Multimedia   | <a href="https://www.youtube.com/watch?v=X2b0ZME_Z54">https://www.youtube.com/watch?v=X2b0ZME_Z54</a> |
| 12   | Computational Intelligence         | <a href="https://www.youtube.com/watch?v=neKAjXz27qo">https://www.youtube.com/watch?v=neKAjXz27qo</a> |

Welcome to SAEC

← → ↻ saec.ac.in/departments/it/video-lecture-it/

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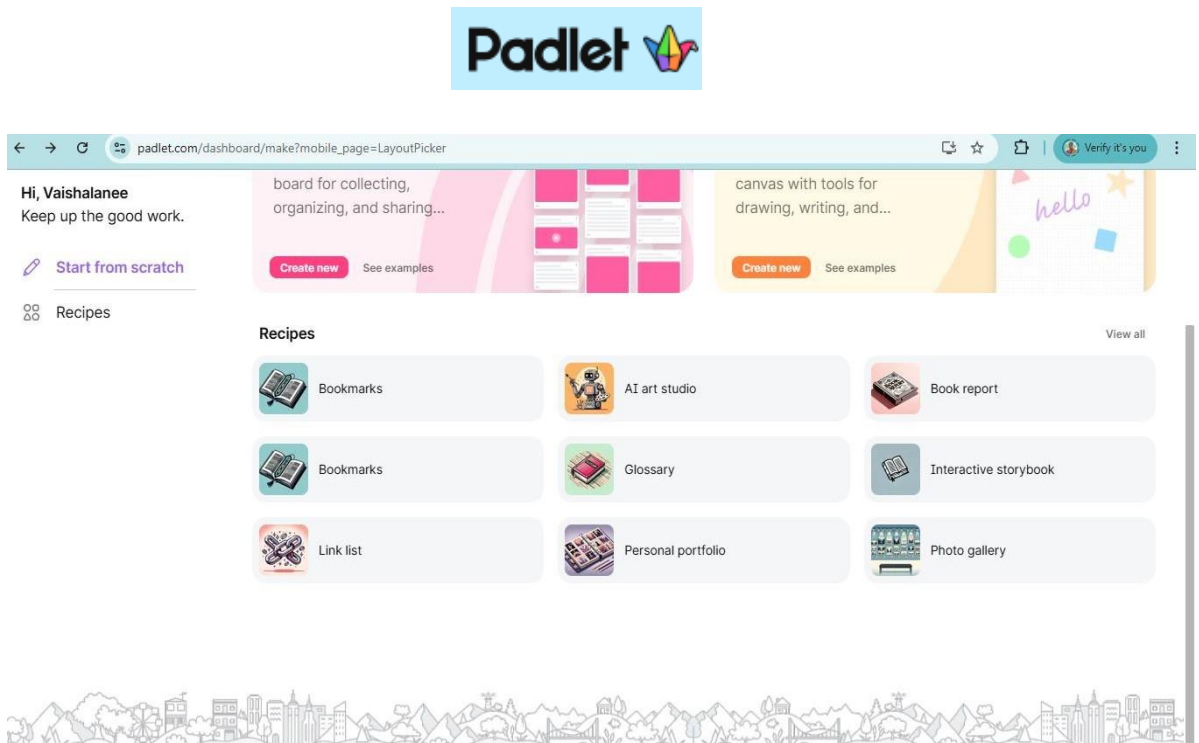
|    |                                  |   |
|----|----------------------------------|---|
| 13 | Operating System                 | <a href="https://www.youtube.com/watch?v=piZ34_MrQDE">https://www.youtube.com/watch?v=piZ34_MrQDE</a> |
| 14 | Operating System                 | <a href="https://www.youtube.com/watch?v=TC4RDrsbCHc">https://www.youtube.com/watch?v=TC4RDrsbCHc</a> |
| 15 | Python                           | <a href="https://www.youtube.com/watch?v=yrd5Dp8LOpA">https://www.youtube.com/watch?v=yrd5Dp8LOpA</a> |
| 16 | Communication Lab                | <a href="https://www.youtube.com/watch?v=wS5LaFjt8kE">https://www.youtube.com/watch?v=wS5LaFjt8kE</a> |
| 17 | Maths-Calculus                   | <a href="https://www.youtube.com/watch?v=E7JoxNoFIll">https://www.youtube.com/watch?v=E7JoxNoFIll</a> |
| 18 | Object oriented Programming      | <a href="https://www.youtube.com/watch?v=gHwNYsapZG0">https://www.youtube.com/watch?v=gHwNYsapZG0</a> |
| 19 | Object oriented Programming      | <a href="https://www.youtube.com/watch?v=Jh-ckGdbly8">https://www.youtube.com/watch?v=Jh-ckGdbly8</a> |
| 20 | Analog and Digital Communication | <a href="https://www.youtube.com/watch?v=OsLPWR4ZEek">https://www.youtube.com/watch?v=OsLPWR4ZEek</a> |
| 21 | ADC-Modulation Transmitter       | <a href="https://www.youtube.com/watch?v=KKUX1beqT_E">https://www.youtube.com/watch?v=KKUX1beqT_E</a> |
| 22 | C# and .Net                      | <a href="https://www.youtube.com/watch?v=M8ur0Zev89I">https://www.youtube.com/watch?v=M8ur0Zev89I</a> |
| 23 | Database Management System       | <a href="https://www.youtube.com/watch?v=vW4SCIU14u8">https://www.youtube.com/watch?v=vW4SCIU14u8</a> |
| 24 | Database Management System-IR    | <a href="https://www.youtube.com/watch?v=bm_a1MVGFI4">https://www.youtube.com/watch?v=bm_a1MVGFI4</a> |
| 25 | Database Management System       | <a href="https://www.youtube.com/watch?v=2BqJ_5d0kCw">https://www.youtube.com/watch?v=2BqJ_5d0kCw</a> |
| 26 | Operating System                 | <a href="https://www.youtube.com/watch?v=oC1MdH9ETGs">https://www.youtube.com/watch?v=oC1MdH9ETGs</a> |

Welcome to SAEC

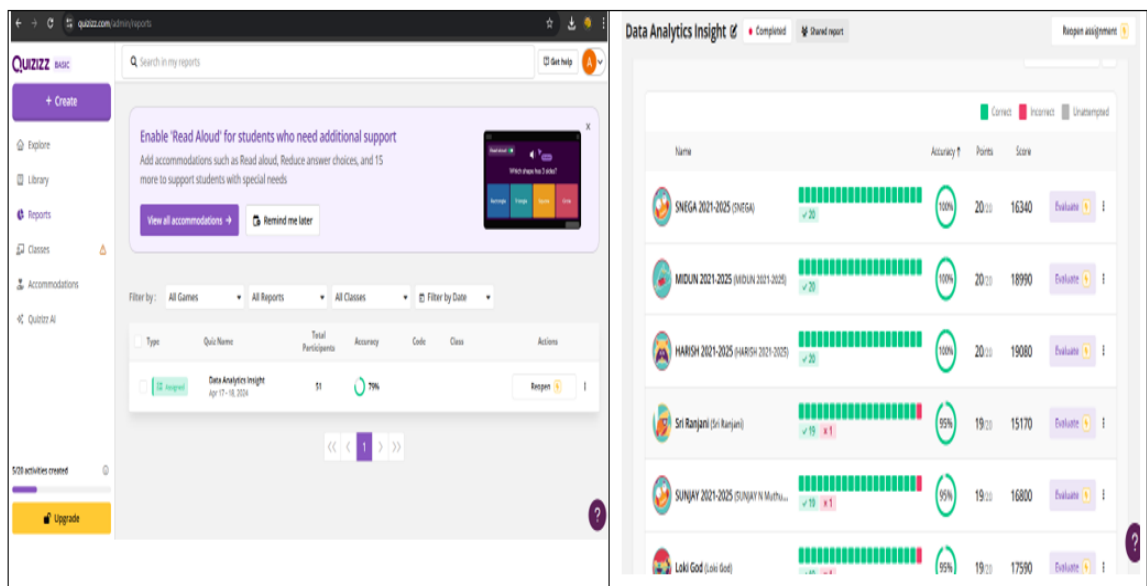
***Students are referencing digital educational content***

***In this teaching method, students learn theoretical concepts at home through pre-recorded lectures, videos, or reading materials. Classroom time is then devoted to engage students in discussions, solving problems, and conducting hands-on activities. This model promotes deeper understanding, critical thinking, and peer interaction among students.***

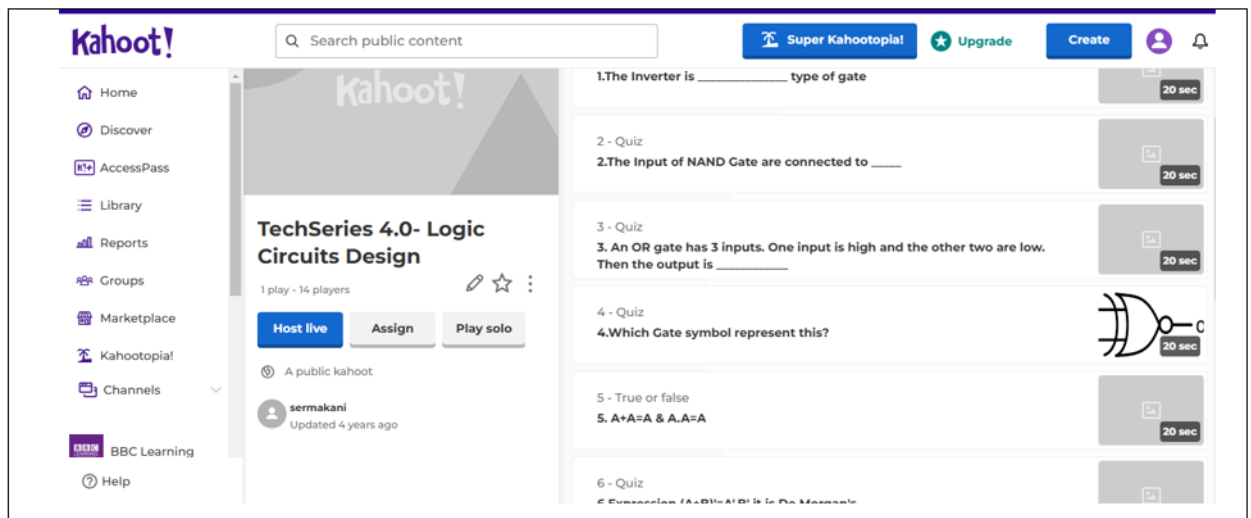
# GAME-BASED LEARNING



*Students are utilizing Padlet's collaborative workspace for learning*



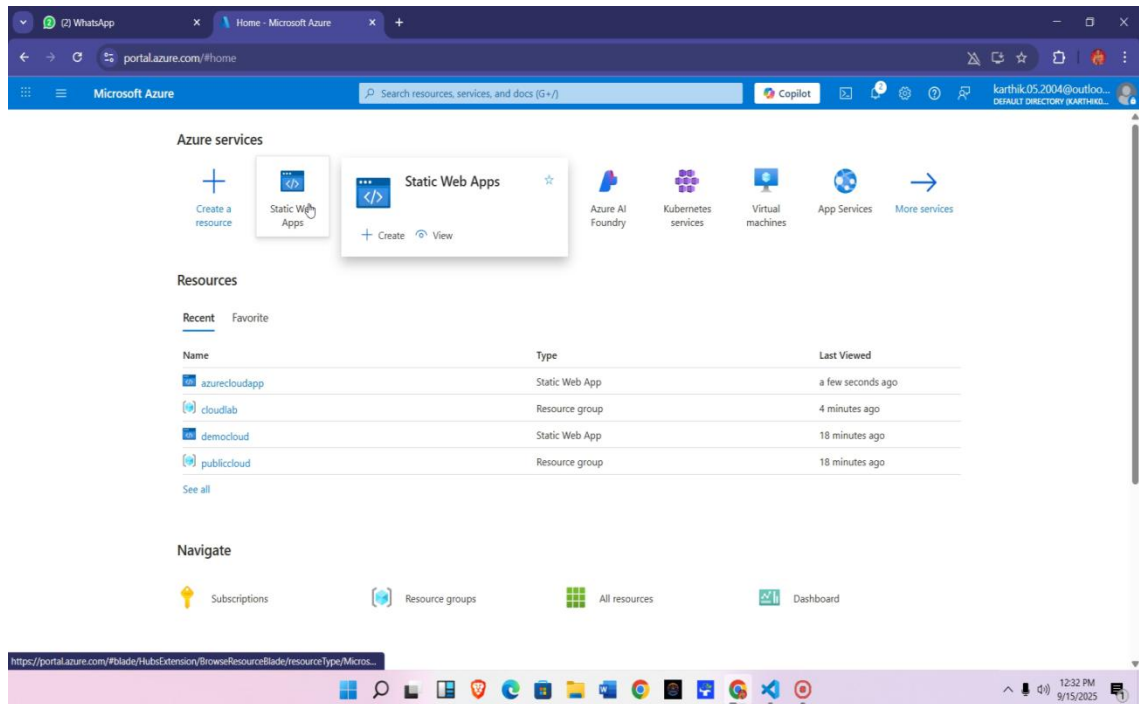
*Learners are collaborating through Quizz platforms*



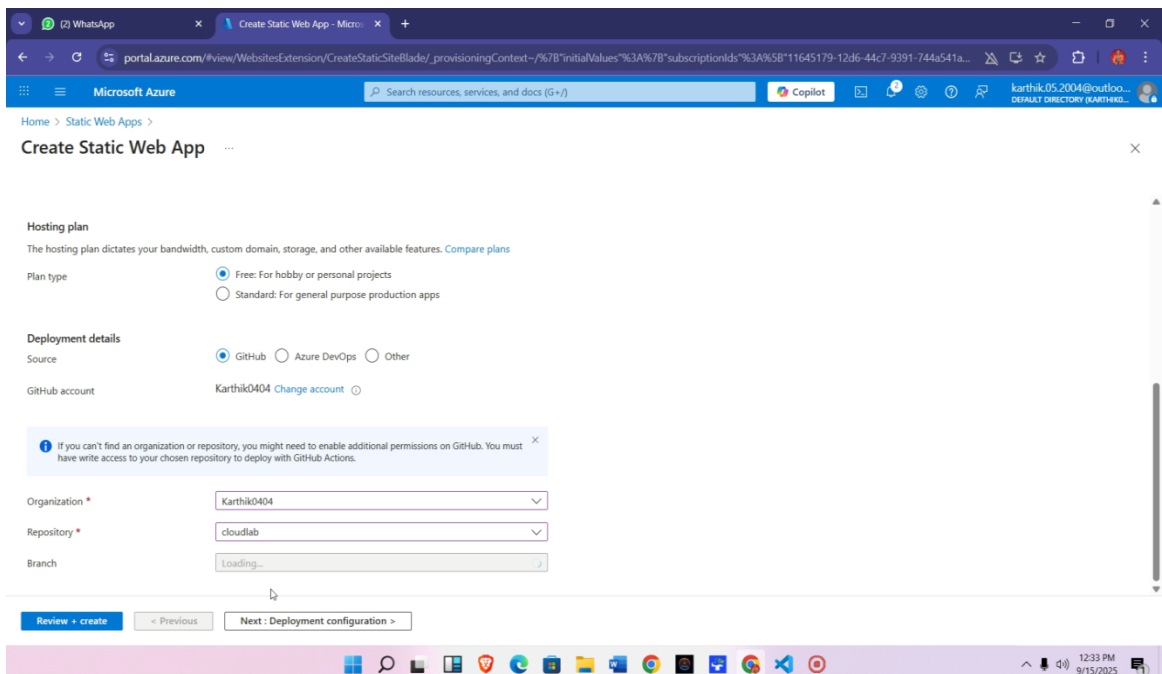
*Students are utilizing Kahoot! Go! collaborative workspace for learning*

*The Faculty of Information Technology uses game-based learning platforms like Kahoot and Quizizz to make learning fun, interactive, and engaging for students. These tools help to explain complex IT topics in a simpler way through quizzes and games.*

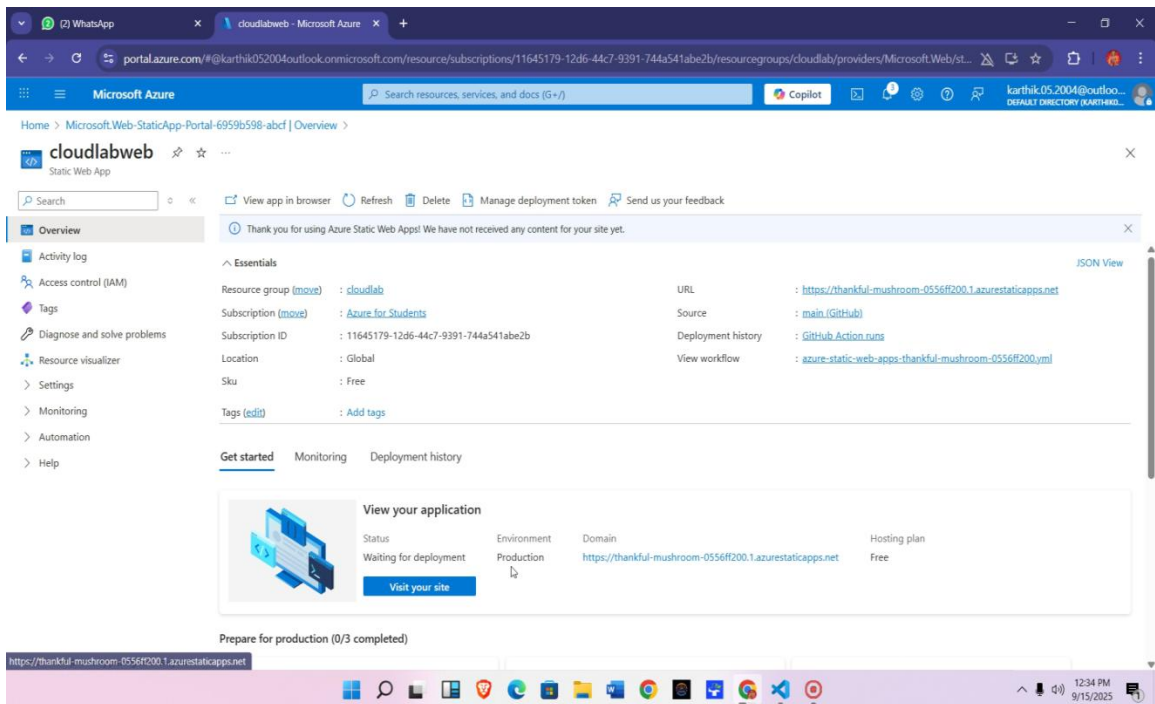
# VIRTUAL LAB-ENHANCED LEARNING



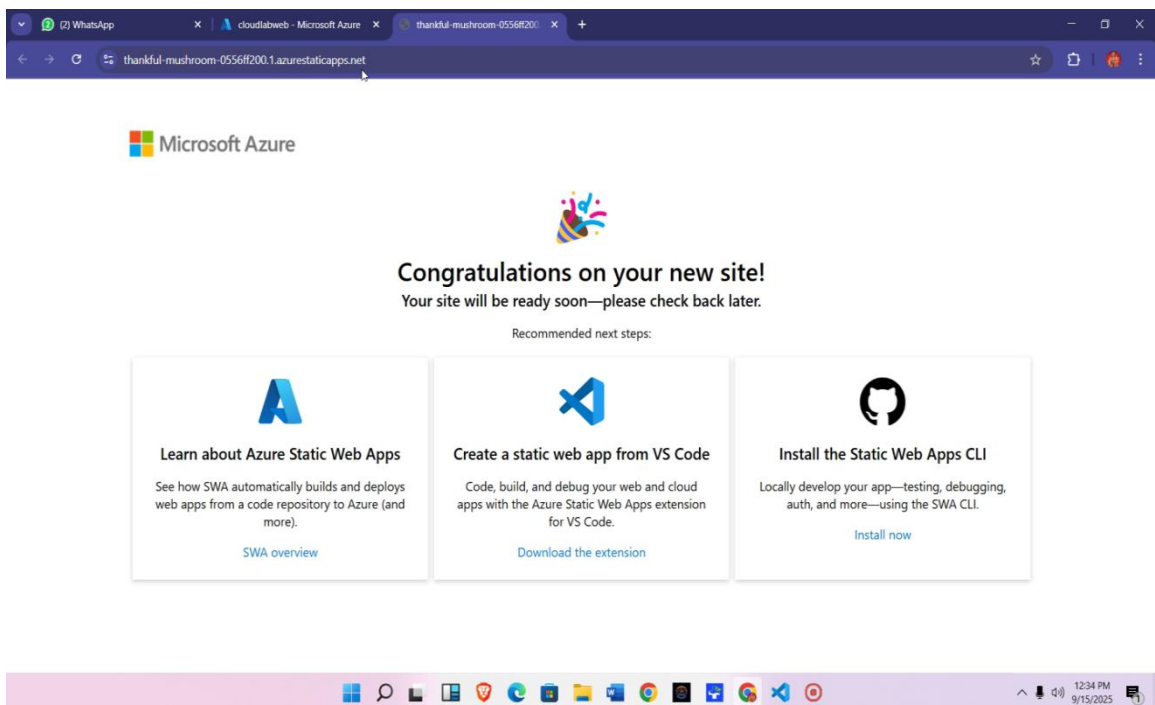
*Students have activated their Microsoft Azure services*



**Students are accessing Azure cloud infrastructure to develop web solutions and adaptive tasks**



## Web apps running on Microsoft Azure platform



## Applications developed using Azure cloud platform



Microsoft Azure Search resources, services, and docs (G+/) Copilot svasanthakumar311020... DEFAULT DIRECTORY

Home > Static Web Apps >

## Create Static Web App

Basics Deployment configuration Advanced Tags Review + create

App Service Static Web Apps is a streamlined, highly efficient solution to take your static app from source code to global high availability. Pre-rendered content is distributed globally with no web servers required. [Learn more](#)

Project Details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription \*

Resource Group \*  [Create new](#)

Hosting region

Static Web Apps distributes your app's static assets globally. Configure regional features in [Advanced](#)

Regions

Static Web App details

[Review + create](#) < Previous Next: Deployment configuration >

## Static web app using Microsoft Azure platform

Microsoft Azure Search resources, services, and docs (G+/) Copilot svasanthakumar311020... DEFAULT DIRECTORY

Home > Static Web Apps >

## Create Static Web App

Basics Deployment configuration **Advanced** tags Review + create

Azure Static Web Apps provide global high availability for your applications' production environment. Static Web Apps also comes with the option to have a managed Azure Functions API. Managed functions and non-production environments for your Static Web Apps resource are regional. [Learn more](#)

Azure Functions and staging details

Region for Azure Functions API and staging environments \*

Enterprise-grade edge

Extend this Static Web App with enterprise-grade edge powered by Azure Front Door. This seamless integration will keep your traffic on the best path to your app, improve website speed, and increase throughput for your global users with edge load balancing across 118+ points of presence, SSL offload, and application acceleration. [Learn more](#)

Enterprise-grade edge ☐

**i** Enterprise-grade edge requires a standard hosting plan. [Change hosting plan](#)

[Review + create](#) < Previous Next: Tags >

## Static web app environment configured successfully

vasanth3108 / demolab

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Files

main

Go to file

.github/workflows

azure-static-web-apps-calm-gra...

demo

demolab /.github/workflows/azure-static-web-apps-calm-grass-0be780e00.yml

View Runs

vasanth3108 ci: add Azure Static Web Apps workflow file dcf181 · 1 minute ago History

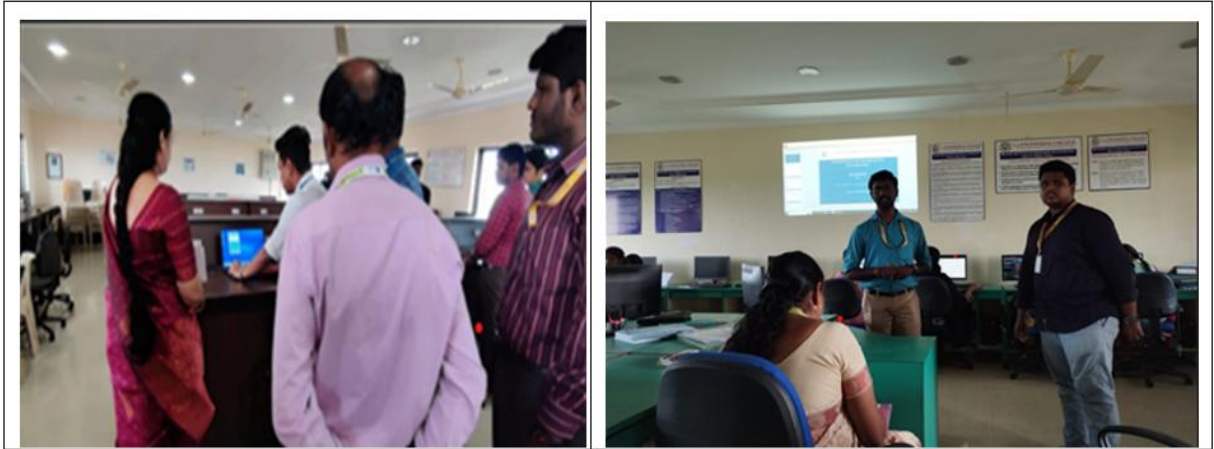
```
1 name: Azure Static Web Apps CI/CD
2
3 on:
4   push:
5     branches:
6       - main
7   pull_request:
8     types: [opened, synchronize, reopened, closed]
9     branches:
10      - main
11
12 jobs:
13   build_and_deploy_job:
14     if: github.event_name == 'push' || (github.event_name == 'pull_request' && github.event.action != 'closed')
15     runs-on: ubuntu-latest
16     name: Build and Deploy Job
17     steps:
```

## Workflow code running on Demo Lab by students



*Sample Certificates for International Conference attended by the students*

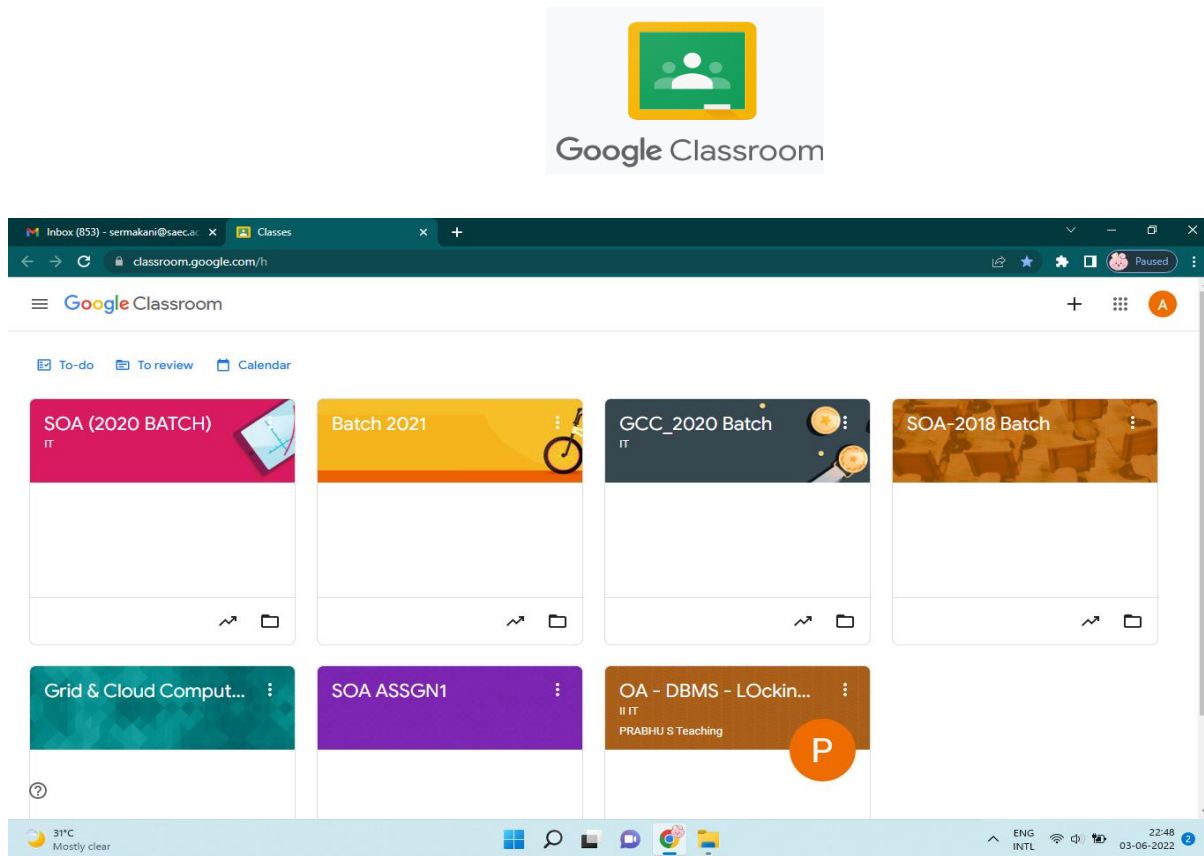




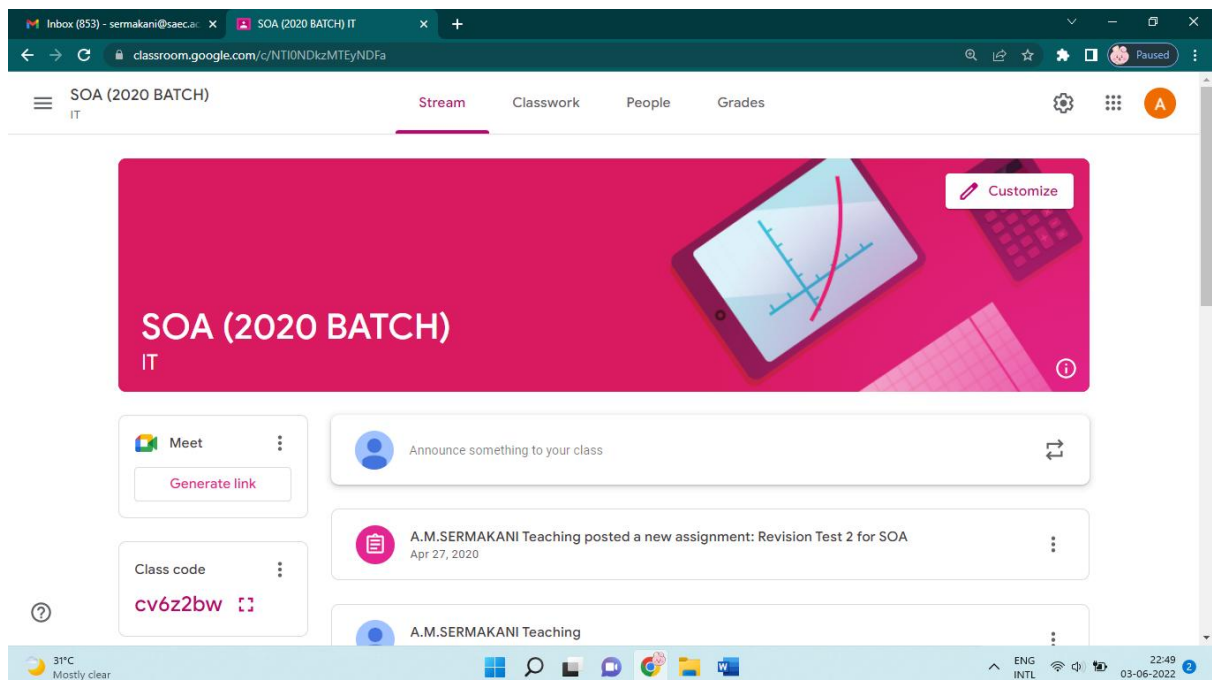
### ***Students showcasing their research projects***

***The Faculty of Information Technology encourages students to actively participate in research projects and publish papers under their guidance. This approach helps students apply their knowledge to real-world problems, develop critical thinking skills, and contribute to the field of technology.***

## ONLINE BASED TEACHING LEARNING PROCESS



### *Google Classroom subjects through educator access*



### *Google Classroom assignments posted*

SOA (2020 BATCH)  
IT

Instructions Student work

Return 100 points

All students

Sort by status

Turned in

| Student                      | Score |
|------------------------------|-------|
| AASHA M J 2016 - 2020 IT     | 100   |
| ABIRAMI V 2016 - 2020 IT     | 100   |
| AKASH KUMAR R 2016 - 2020 IT | 100   |

32 Turned in 19 Assigned

All

AASHA M J 2016 - 2020 IT  
SOA-HT2 (111916205...  
Turned in

ABIRAMI V 2016 - 2020 IT  
3 attachments  
Turned in

AKASH KUMAR R 2016 - 2020 IT  
3 attachments  
Turned in

*Google Classroom assignment reports generated*

SOA (2020 BATCH)  
IT

Stream Classwork People Grades

+ Create

Google Calendar Class Drive folder

| Item                    | Date                |
|-------------------------|---------------------|
| Revision Test 2 for SOA | Posted Apr 27, 2020 |
| REVISION TEST FOR SOA 3 | Posted Apr 9, 2020  |
| ASSIGNMENT 3            | Posted Feb 25, 2020 |
| ASSIGNMENT 2            | Edited Feb 25, 2020 |
| ASSIGNMENT 1            | Posted Feb 25, 2020 |

*Google Classroom classwork details exhibited*

SOA (2020 BATCH) IT

Stream Classwork **People** Grades

### Teachers

A.M.SERMAKANI Teaching

### Students

51 students

Actions

AASHA M J 2016 - 2020 IT

ABIRAMI V 2016 - 2020 IT

AKASH KUMAR R 2016 - 202...

ARASAN B 2016 - 2020 IT

31°C Mostly clear

ENG INTL

22:50 03-06-2022

*Google Classroom class participants registered*



Forms

Recent forms

Owned by anyone

BDA\_Course End Survey  
Opened Jun 2, 2022

UHV\_Course End Survey  
Opened Jun 1, 2022

Cloud Computing\_Course...  
Opened Jun 1, 2022

Project Evaluation Survey...  
Opened May 31, 2022

Student Survey(2021-2022)  
Opened Mar 10, 2022

Project Evaluation Survey...  
Opened Mar 10, 2022

UHV Tutorial 1  
Opened Mar 7, 2022

Cloud Computing lab\_Co...  
Opened Mar 6, 2022

31°C Mostly clear

ENG INTL

22:51 03-06-2022

*Google Forms for in-house assessments posted*



# Google Workspace

The screenshot shows the Google Sheets interface. At the top, there's a search bar and a navigation menu. Below, spreadsheets are listed under different time categories:

- Today:** OPEN ELECTIVES (Owned by Dr. S RAMACHAN..., Last opened 9:23 PM)
- Yesterday:**
  - IT- MAY & JUNE 2022 ATTENDANCE (Owned by CHITHRA D IT TE..., Last opened Jun 2, 2022)
  - STUDENT DETAILS FOR DEGREE CERTIFICATE (Owned by me, Last opened Jun 2, 2022)
  - Fees Details(2021-2022)-IT Department.xlsx (Owned by JULIA FAITH S Te..., Last opened Jun 2, 2022)
- Previous 7 days:**
  - Project Evaluation Survey-2022 Batch (Responses) (Owned by me, Last opened Jun 1, 2022)
  - ADMISSION DUTY 2022 -2023 (Owned by PRABAHARAN G ..., Last opened May 29, 2022)
- Previous 30 days:** (No items listed)

The bottom of the screen shows a Windows taskbar with the date 03-06-2022 and time 22:52.

*Google Sheets for educational document management*

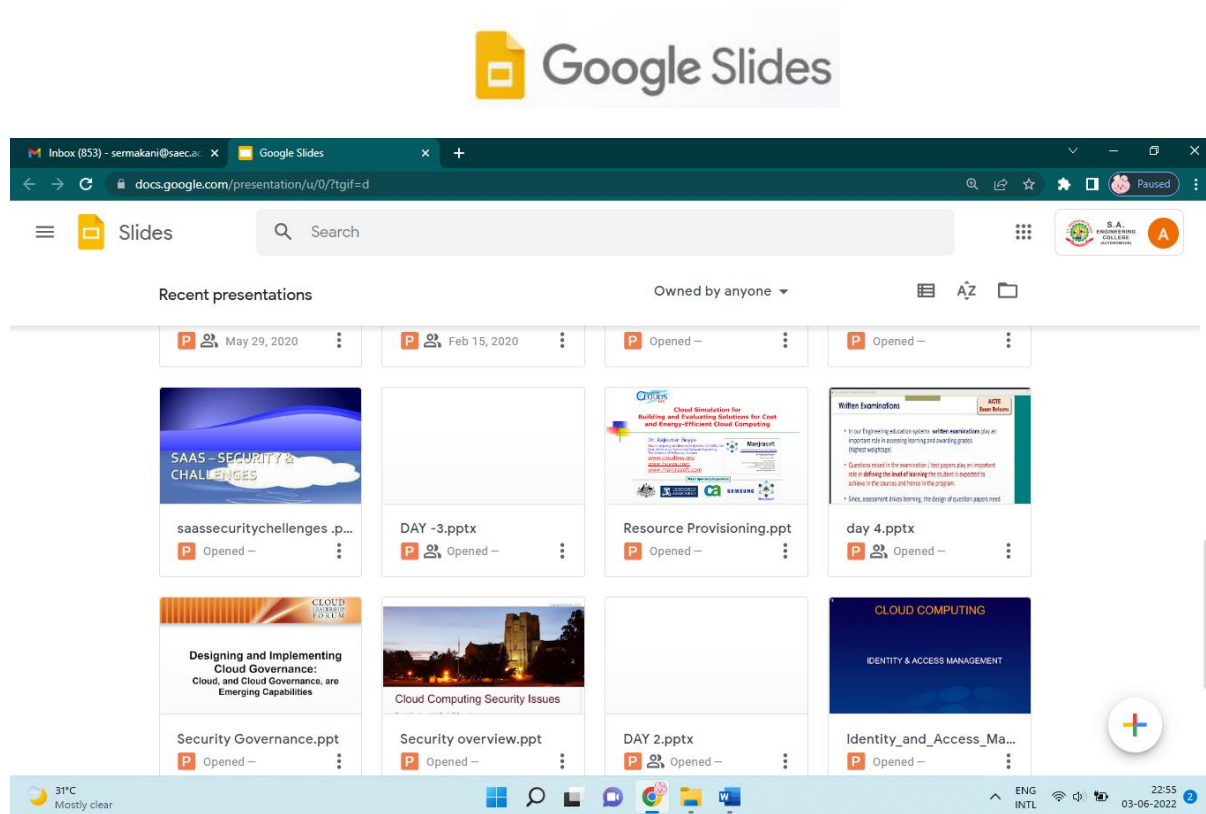
# Google Drive

The screenshot shows the Google Drive interface. On the left is a sidebar with navigation options: New, Priority, My Drive (selected), Shared with me, Recent, Starred, Trash, and Storage (18.81 GB used). The main area displays a list of folders in 'My Drive':

| Name             | Owner | Last modified | File size |
|------------------|-------|---------------|-----------|
| 2015-2016        | me    | Sep 22, 2016  | me        |
| 2016-2017 EVEN   | me    | Mar 9, 2017   | me        |
| 2017-2018 ODD    | me    | Sep 25, 2017  | me        |
| 2017-2018(EVEN)  | me    | Jan 29, 2018  | me        |
| 2018-2019(EVEN)  | me    | Mar 1, 2019   | me        |
| 2018-2019(ODD)   | me    | Sep 19, 2018  | me        |
| 2019-2020(EVEN)  | me    | Mar 16, 2020  | me        |
| 2019-2020(ODD)   | me    | Sep 19, 2019  | me        |
| 2021-2022 (EVEN) | me    | Mar 10, 2022  | me        |

The bottom of the screen shows a Windows taskbar with the date 03-06-2022 and time 22:52.

*Google Drive for sharing course materials with learners*



## ***Google Slides for virtual session presentations***

***Online-based learning is an educational approach where students access course materials and engage with content through the internet, allowing for flexibility and convenience. This method enables students to study from anywhere and at any time, using devices such as computers, tablets, or smartphones.***





### ***Sample NPTEL certificates of students***

*Students are encouraged to enroll in NPTEL courses to enhance their learning experience. NPTEL offers a wide range of courses in technical subjects, allowing students to deepen their knowledge. These platforms provide access to high-quality content in cutting-edge fields such as Artificial Intelligence, Cloud Computing, Machine Learning, Big Data Analytics*

**coursera**



## Sample Certificates of Coursera

*To pursue Coursera online certification courses to explore a wider range of subjects beyond their regular curriculum. Coursera offers specialized courses in emerging technologies like AI, machine learning, and data science*



*Students are encouraged to take MATLAB courses starting in their second year. The MATLAB certification course has proven highly beneficial, providing students with valuable skills in numerical computing, data analysis, programming, and algorithm development*

### *Consolidated Tables of Course Name*

| S. No | Academic Year | Course name                             | No of Students Benefited |          |         |
|-------|---------------|---|--------------------------|----------|---------|
|       |               |   | II Year                  | III Year | IV Year |
| 1     | 2024-2025     | 1) Unit Testing                         | 62                       | 61       | 62      |
|       |               | 2) Image Processing Onramp              |                          |          |         |
|       |               | 3) Programming Constructs               |                          |          |         |
|       |               | 4) Object Oriented Programming Onramp   |                          |          |         |
|       |               | 5) The How and Why of writing Functions |                          |          |         |
| 2     | 2023-2024     | 1) MATLAB Onramp                        | 61                       | 62       | 45      |
|       |               | 2) Simulink Onramp                      |                          |          |         |
|       |               | 3) Computer Vision                      |                          |          |         |
|       |               | 4) Machine Learning Onramp              |                          |          |         |
|       |               | 5) Deep Learning Onramp                 |                          |          |         |



### *Sample Certificates of MATLAB*

## EXPERT TALK

### Consolidated Sheet of Expert Talk

| S.NO | EVENT TYPE         | EVENT NAME                           | DATE                     | RESOURCE PERSON   | PARTICIPANTS             | PROFESSIONAL BODY AFFILIATION | OUTCOME  |
|------|--------------------|--------------------------------------|--------------------------|---|--------------------------|-------------------------------|--|
| 1.   | VALUE ADDED COURSE | “PYTHON with MONGODB”                | 27.01.25 to 03.02.2025   | Mr.M.MUGESH,<br>Software Developer/Trainer,<br>VEI Technologies Pvt.Ltd, Chennai                | II YEAR                  | IEEE Student Branch           | Students will gain proficiency in Python programming and an understanding of NoSQL databases, focusing on MongoDB. They will perform database operations and build scalable applications.  |
| 2.   | GUEST LECTURE      | “Full Stack Development”             | 22.01.2025               | Ms.NETHRA SHREE M<br>Full Stack Developer,<br>8 Queens Technologies Pvt. Ltd, Chennai.          | III YEAR                 | IEEE Student Branch           | Students will understand the fundamentals of full-stack development, including front-end, back-end, and database integration. They will gain insights into building and deploying complete web applications using modern technologies. |
| 3.   | VALUE ADDED COURSE | “Full Stack Development Server Side” | 03.01.2025 to 09.01.2025 | Dr B Ezhilavan<br>Founder & CEO<br>VEI TECHNOLOGIES PVT LTD                                     | III YEAR                 | IEEE Student Branch           | It equips students with comprehensive skills to design and implement server-side applications, enabling them to build scalable web systems.  |
| 4.   | NATIONAL YOUTH DAY | INSTITUTION'S INNOVATION COUNCIL     | 12.01.2025               | Dr.G.Muralikrishnan,<br>Associate Professor (EEE),<br>IIC Innovation Ambassador, SAEC, Chennai. | II,III& IV Year Students | IEEE Student Branch           | The event encourages personal growth, leadership qualities, and a commitment to societal development, motivating students to contribute positively to their communities.   |

|     |                    |  |                          |   |                     |                     |  |
|-----|--------------------|--|--------------------------|---|---------------------|---------------------|--|
| 5.  | WORKS HOP          | "Innovative and Impactful careers in Data Analytics"                         | 23.01.2025               | Nawaz Syed,<br>Software Developer,<br>Chennai   | III Year            | IEEE Student Branch | It equips students with the knowledge of industry trends, essential skills, and tools, motivating them to pursue data-driven careers and explore innovative applications of analytics in various sectors.      |
| 6.  | Guest lecture      | "Role of Object oriented programming in Web Application Development"         | 08/07/2024               | Dr V Karthikeyan<br>Senior Consultant<br>HCL Technology private limited,<br>Chennai                   | III Year            | IEEE Student Branch | After attending this program, students will be able to design and develop modular, reusable, and efficient web applications using Object-Oriented Programming principles.                                      |
| 7.  | Guest lecture      | "Innovation as a Career Opportunity: Exploring Diverse Roles in IT industry" | 12.07.2024               | Mr. BALAJI RAJENDRA N, Founder & CEO, Curious Wings EduTech private limited.<br>9962126316            | II YEAR             | IEEE Student Branch | Students will understand how innovation drives career growth and will be equipped to identify and pursue diverse roles in the IT industry.   |
| 8.  | Guest lecture      | "ReactJS and its Role in Web Design"   | 18.07.2024               | Mr.SHIBI CHAKKARA VARTHY,<br>Inetz Technologies.  | III YEAR            | IEEE Student Branch | After attending this program, students gained proficiency in ReactJS and they will also learn to create modular and maintainable web applications using component-based architecture.                          |
| 9.  | Guest lecture      | "Trends in Modern UI/UX Design"  | 19.07.2024               | Mr.C.KALIMUTHU, UI/UX Developer, Softrate.<br>Mr.S.JEFFREY JONES, Full Stack Web Developer, Softrate. | II YEAR<br>III YEAR | IEEE Student Branch | Mr.C.KALIMUTHU, the Resource person, deliberated the whole session with real world applications and brainstorming sessions involving active participation of the students in many related hands-on activities. |
| 10. | Value Added Course | "Data Analytics with Power BI"   | 24.07.2024 to 31.07.2024 | Mr Santha Krishnan<br>Business Data Analyst<br>INETZ TECHNOLOGIES PVT LTD                             | IV YEAR             | IEEE Student Branch | Students acquired the skills to analyze and visualize data effectively using Power BI. They would be able to create interactive dashboards and generate actionable insights to support data-driven             |

|      |  |   |                          |  |          |                     |   |
|------|--|---|--------------------------|--|----------|---------------------|---|
|      |  |   |                          | Dr B Ezhilavan<br>Founder & CEO<br>VEI TECHNOLOGIES PVT LTD  |          |                     | decision-making.  |
| 11.  | Value Added Course                     | "Full Stack Development Client Side"                  | 01.08.2024 to 8.08.2024  |  | III YEAR | IEEE Student Branch | Dr B Ezhilavan, the Resource person, deliberated the whole session with real world applications and brainstorming sessions involving active participation of the students in many related hands-on activities.  |
| 12.  | Guest lecture under Alumni Interaction | "Career Exploration and Planning"                     | 05.08.2024               | Ms Sai Sowmya Donthu<br>Software engineer and technical Business Analyst<br>Rapid Data Technologies<br><br>ALUMNI(2018-2022 BATCH) | IV YEAR  | IEEE Student Branch | After attending this program, students gained clarity on various career paths and the skills required for success in their chosen fields. They learnt how to set achievable career goals, develop a professional network, and create a strategic plan for career advancement. |
| 13.. | Guest lecture                          | "AI Cybersecurity"                                    | 13.8.2024                | Mr Sri Balaji Aravind R<br>Co-Founder<br>Arjun vision Tech Solution  | IV YEAR  | IEEE Student Branch | Students understood how AI enhances cybersecurity by automating threat detection and response, adapting to evolving threats in real time.   |
| 14.. | Value Added Course                     | "UI & UX DESIGN"                                      | 12.08.2024 to 20.08.2024 | Dr B Ezhilavan<br>Founder & CEO<br>VEI TECHNOLOGIES PVT LTD  | II YEAR  | IEEE Student Branch | Dr B Ezhilavan, the Resource person, deliberated the whole session with real world applications and brainstorming sessions involving active participation of the students in many related hands-on activities.  |
| 15.  | Workshop                               | "Learn Start-up & Minimum Viable Product - Boot Camp" | 18.07.2024               | Ms. Bharati,<br>Corporate Trainer, Mind Logix  | IV YEAR  | IEEE Student Branch | By the end of the program, attendees are empowered to refine their strategies, reduce risks, and accelerate their journey toward a successful launch.   |

*An expert talk was conducted on 18.08.2022 for third-year students, with Mr. Chander Pichhe serving as the chief guest and sharing valuable insights.*





*An expert talk event was organized on 05th Sep 2022 for second-year students, featuring Mr. Kapil Kumar as the chief guest on Network Security*



## INDUSTRIAL VISIT

### Consolidated Table of Industrial Visit

| S.NO | ACADEMIC YEAR   | DATE            | YEAR/SEM  | PLACE  |
|------|-----------------|-----------------|-----------|--|
| 1    | 2022-2023(ODD)  | 16.09.2022      | II YR/03  | Sansbound Solutions Pvt Ltd., Mambalam, Chennai.       |
| 2    |                 | 17.11.2022      | III YR/05 | PUMO Technovation India Pvt Ltd., Tambaram, Chennai.   |
| 3    |                 | 29.11.2022      | IV YR/07  | PUMO Technovation India Pvt Ltd., Vadapalani, Chennai. |
| 4    | 2022-2023(EVEN) | 11.04.2023      | II YR/04  | PUMO Technovation India Pvt Ltd., Vadapalani, Chennai. |
| 5    |                 | 05.05.2023      | III YR/06 | Imaticus Learning Pvt Ltd.<br>Nelson Manickam Road.    |
| 6    | 2023-2024(ODD)  | 13.10.2023      | II YR/03  | Retech Solutions Pvt Ltd., Tambaram.                   |
| 7    |                 | 17.08.2023      | III YR/05 | IIITDM, Vandalur-Kelambakkam Road, Chennai.            |
| 8    |                 | 09.11.2023      | IV YR/07  | U.R.RAO Satellite Centre, Bangalore.                   |
| 9    | 2023-2024(EVEN) | 22.02.2024<br>& | III YR/06 | Caterpillar, Chennai                                   |
|      |                 | 23.02.2024      |           |  |
| 10   |                 | 05.03.2024      | II YR/04  | IIITDM, Vandalur-Kelambakkam Road, Chennai.            |
| 11   |                 | 16.04.2024      | III YR/06 | Retech Solutions Pvt Ltd., Tambaram.                   |
|      |                 |                 |           |  |

|    |                 |            |           |  |
|----|-----------------|------------|-----------|--|
| 12 | 2024-2025(ODD)  | 18.06.2024 | II YR/03  | IIITDM, Vandalur-Kelambakkam Road, Chennai.        |
| 13 |                 | 19.08.2024 | III YR/05 | Tansam, Taramani                                   |
| 14 |                 | 09.08.2024 | IV YR/07  | U.R.RAO Satellite Centre, Bangalore.               |
| 15 | 2024-2025(EVEN) | 19.12.2024 | II YR/04  | NIOT, Pallikaranai.                                |
|    |                 | 08.01.2025 | II YR/04  | Retech Solutions Pvt Ltd., Tambaram                |
| 16 |                 | 22.01.2025 | II YR/04  | CVRDE,AVADI.                                       |
| 17 |                 | 07.02.2025 | III YR/06 | STPI, Taramani.                                    |
| 18 |                 | 16.04.2025 | III YR/06 | Crescent Innovation & Incubation Centre, GST Road. |

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(An Autonomous Institution, Affiliated to Anna University)  
**DEPARTMENT OF INFORMATION TECHNOLOGY**  
ACADEMIC YEAR-2022-2023(EVEN)  
II YR-INDUSTRIAL VISIT-PUMO TECHNOVATION INDIA PVT LTD  
DATE: 05.05.23



**S.A.ENGINEERING COLLEGE, CHENNAI – 77**  
(An Autonomous Institution, Affiliated to Anna University)  
**DEPARTMENT OF INFORMATION TECHNOLOGY**  
ACADEMIC YEAR-2022-2023(EVEN)  
III YR-INDUSTRIAL VISIT-IMARTICUS LEARNING PVT LTD

DATE:11.04.23

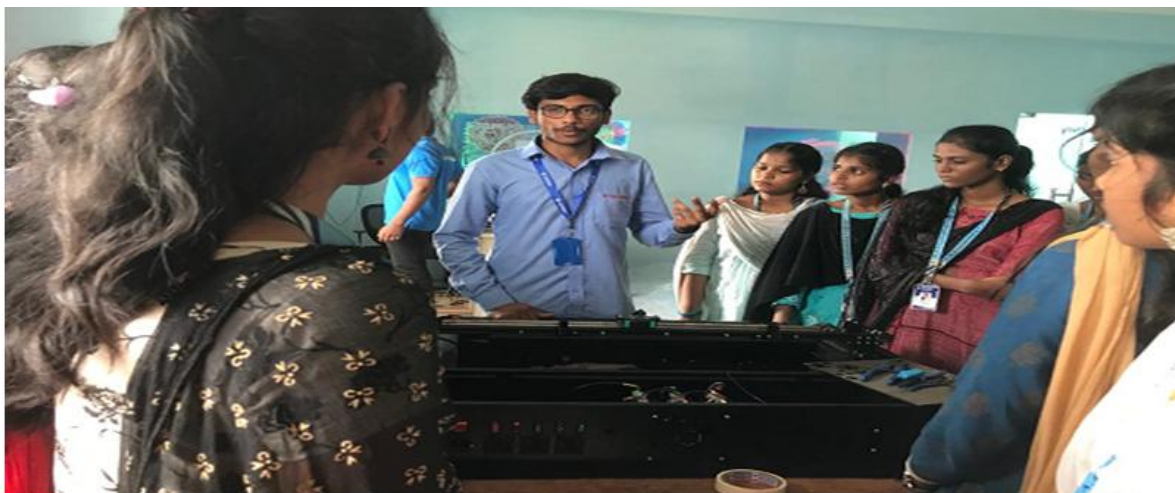


**Technical Expert Demo on Modern IT Engineering Practices for Active Products**





ActiveX  
Go to PC setting



Field visit to “Retechn Solutions Pvt| Ltd.,” was organized for our II year students on 13th October 2023. This visit provided a valuable opportunity to gain hands-on experience on IOT Projects and learn more about the industry in a real-world setting. Also provides students with 3D Robotics and video editing opportunities and it benefits their future career prospects.

***Technical Expert Showcase on Simultaneous BLDC Motor Design and Engineering***



## ISRO-U R Rao Satellite Centre(URSC)



*Field visit to “U.R.Rao Satellite Centre.,” at Bangalore was organized for our IV-year students on 9th November 2023. This visit provided comprehensive information about recent and upcoming ISRO projects, distances between planets, notable figures in space exploration, India's achievements in space programs, and the overall satellite building process. The discussion covered diverse topics, including satellite components, launch vehicles, and the positioning of command centers across India.*

## SKILL ENHANCEMENT COURSE



*Facilitator conducted a session on Aptitude Buster for II<sup>nd</sup> year students*



*II<sup>nd</sup> year students are engaged in a mock session on Aptitude Buster*





*II<sup>nd</sup> year students participated in an interactive session on Skill Rack Programming Portal*



*III<sup>rd</sup> year students participated in an interactive session to address queries on Skill Rack Programming Portal*



*II<sup>nd</sup> year students took part in a mentoring session of Pearson | MePro*



*II<sup>nd</sup> year students were involved in a concept clarification session on Aptitude Buster*



*III<sup>rd</sup> year students were involved in a clarification session on Skill Rack and  
Pearson | MePro*

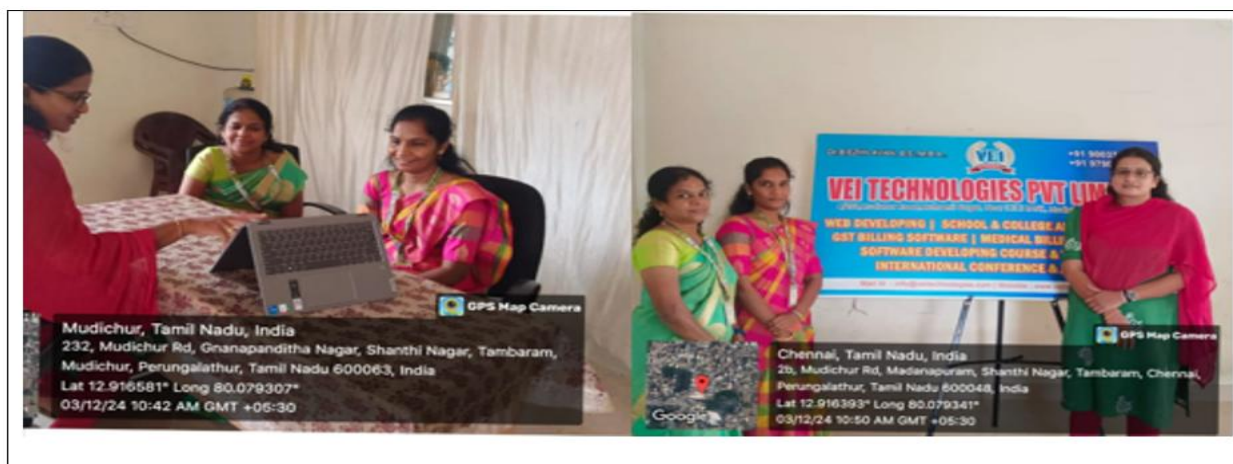
## INDUSTRY-DRIVEN TEACHING LEARNING PROCESS



*Faculty underwent short-term industrial training for skill exposures*



Vei Technologies



*Faculty members attended an industry-academia interaction session*

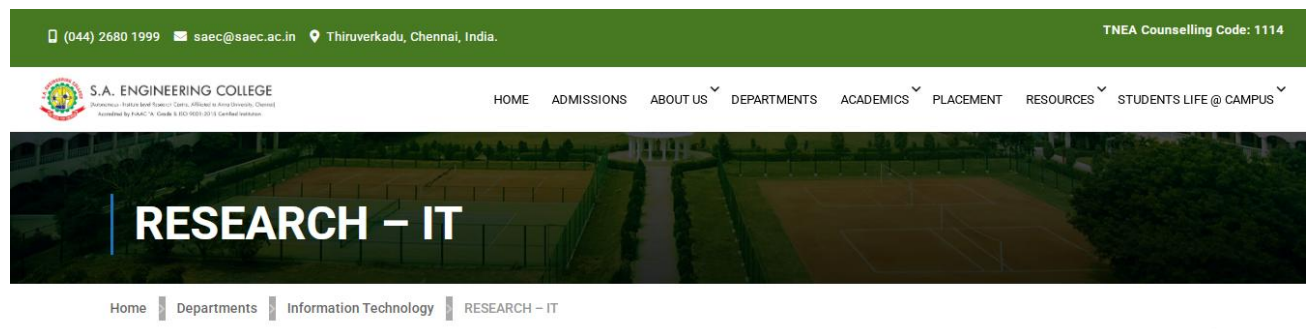


## 5.6 B. THE WORK MUST BE MADE AVAILABLE ON INSTITUTE WEBSITE

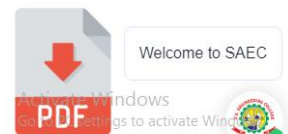
*The institute hosts a dedicated section on its website where faculty members publish their research work, course materials, innovative teaching practices, and academic projects etc., This platform enhances the accessibility and visibility of scholarly contributions, fostering a culture of knowledge sharing and academic excellence*

| S.NO | ACADEMIC RESOURCES             | LINK  |
|------|--------------------------------|---|
| 1    | Research                       | <a href="https://www.saec.ac.in/research-it-2/">https://www.saec.ac.in/research-it-2/</a>   |
| 2    | E-Contents                     | <a href="https://www.saec.ac.in/video-lecture-it/">https://www.saec.ac.in/video-lecture-it/</a>                                       |
| 3    | Innovative Teaching & Learning | <a href="https://www.saec.ac.in/innovative-teaching-and-learning-it/">https://www.saec.ac.in/innovative-teaching-and-learning-it/</a> |

### *Website content of Research*




### PATENTS



## Digital resources in website


(044) 2680 1999   saec@saec.ac.in   Thiruverkadu, Chennai, India.

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**E-CONTENTS**  
INNOVATION BY FACULTY IN  
TEACHING LEARNING

Department YouTube WebLink  
<https://www.youtube.com/channel/UCYNNVymS6BWS4xyqEZk8oRw>

| S.NO | REFERENCE MATERIAL                 | YOUTUBE LINK  |
|------|------------------------------------|---|
| 1    | Data Structure                     | <a href="https://www.youtube.com/watch?v=eiFpOne2YIA">https://www.youtube.com/watch?v=eiFpOne2YIA</a> |
| 2    | C#                                 | <a href="https://www.youtube.com/watch?v=ful7rh4TsxQ">https://www.youtube.com/watch?v=ful7rh4TsxQ</a> |
| 3    | Cryptography and Network Security  | <a href="https://www.youtube.com/watch?v=5Kto0zw69rg">https://www.youtube.com/watch?v=5Kto0zw69rg</a> |
| 4    | Microprocessor and MicroController | <a href="https://www.youtube.com/watch?v=cosNk5Fso1Q">https://www.youtube.com/watch?v=cosNk5Fso1Q</a> |
| 5    | Analog and Digital Communication   | <a href="https://www.youtube.com/watch?v=NGWZrhstY90">https://www.youtube.com/watch?v=NGWZrhstY90</a> |

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## INNOVATIVE TEACHING & LEARNING

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TNEA Counselling Code: 1114



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# INNOVATIVE TEACHING AND LEARNING – IT

Home   Departments   Information Technology   Innovative Teaching and Learning – IT

## INNOVATIVE TEACHING AND LEARNING

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## INDIVIDUAL FACULTY PROFILE

| S.NO | FACULTY NAME           | DESIGNATION                  | PROFILE LINK  |
|------|------------------------|------------------------------|---|
| 1    | Dr. AHMED MUDASSAR ALI | PROFESSOR & HEAD OF THE DEPT | <a href="https://docs.google.com/document/d/1EQLOj4EaEgqIoHljSCVMtli2iDn5_cUp/edit">https://docs.google.com/document/d/1EQLOj4EaEgqIoHljSCVMtli2iDn5_cUp/edit</a>   |
| 2    | Dr.M.GEETHA            | PROFESSOR                    | <a href="https://docs.google.com/document/d/1F7RgnY2C3FL5BoY_224mIOaPUHSvUPTm/edit?usp=sharing&amp;ouid=103699762347996947643&amp;rtpof=true&amp;sd=true">https://docs.google.com/document/d/1F7RgnY2C3FL5BoY_224mIOaPUHSvUPTm/edit?usp=sharing&amp;ouid=103699762347996947643&amp;rtpof=true&amp;sd=true</a> |
| 3    | Mrs.A.M.SERMA KANI     | ASSOCIATE PROFESSOR          | <a href="https://docs.google.com/document/d/19PvfDA0-rQA_ieggeJbEqgzIle7PZ5oXKNzv42Ho6JA/edit?tab=t.0">https://docs.google.com/document/d/19PvfDA0-rQA_ieggeJbEqgzIle7PZ5oXKNzv42Ho6JA/edit?tab=t.0</a>   |
| 4    | Ms.S.JULIA FAITH       | ASSISTANT PROFESSOR          | <a href="https://docs.google.com/document/d/1avh4XCsaG MK6JLkbJgybmHAvgBiSGGh/edit">https://docs.google.com/document/d/1avh4XCsaG MK6JLkbJgybmHAvgBiSGGh/edit</a>   |
| 5    | Mrs.T.VEENA            | ASSISTANT PROFESSOR          | <a href="https://docs.google.com/document/d/1uhl4a94ZbCF87ZK8APDrOiVJ-3_jAj7N/edit">https://docs.google.com/document/d/1uhl4a94ZbCF87ZK8APDrOiVJ-3_jAj7N/edit</a>   |
| 6    | Mrs.D.CHITHRA          | ASSISTANT PROFESSOR          | <a href="https://docs.google.com/document/d/18Vxmgh89ZL0EGZLO2gICYSiOv1Ye-6kg/edit#heading=h.gjdgxs">https://docs.google.com/document/d/18Vxmgh89ZL0EGZLO2gICYSiOv1Ye-6kg/edit#heading=h.gjdgxs</a>   |
| 7    | Mr.P.SENTHIL           | ASSISTANT PROFESSOR          | <a href="https://docs.google.com/document/d/1e19Oi-g3dhLnuSw7gR94v-Tob_JwISvAaBqRgEZ1qZg/edit?tab=t.0">https://docs.google.com/document/d/1e19Oi-g3dhLnuSw7gR94v-Tob_JwISvAaBqRgEZ1qZg/edit?tab=t.0</a>   |
| 8    | Mrs.S.KRISHNA VENI     | ASSISTANT PROFESSOR          | <a href="https://docs.google.com/document/d/1oqY2rI6agsXOVpeeGtST1aXg2gkSls4C/edit">https://docs.google.com/document/d/1oqY2rI6agsXOVpeeGtST1aXg2gkSls4C/edit</a>   |
| 9    | Mrs.S.ASHA             | ASSISTANT PROFESSOR          | <a href="https://docs.google.com/document/d/1W8W_GxT6p vfGkNeW7eY4jTulGTb_gAro/edit">https://docs.google.com/document/d/1W8W_GxT6p vfGkNeW7eY4jTulGTb_gAro/edit</a>   |
| 10   | Mrs.HIMA VIJAYAN       | ASSISTANT PROFESSOR          | <a href="https://docs.google.com/document/d/18uN9RvKfmISMGP6U54nT28oUR-I79dApBK h5lVY5pP4/edit?usp=sharing">https://docs.google.com/document/d/18uN9RvKfmISMGP6U54nT28oUR-I79dApBK h5lVY5pP4/edit?usp=sharing</a>   |

|    |                       |                     |   |
|----|-----------------------|---------------------|---|
| 11 | Mrs.A.SEETHA          | ASSISTANT PROFESSOR | <a href="https://docs.google.com/document/d/19w6YrWDvGis9olBG9y6UihSXmXT4410N/edit?usp=sharing&amp;oid=103699762347996947643&amp;rtpof=true&amp;sd=true">https://docs.google.com/document/d/19w6YrWDvGis9olBG9y6UihSXmXT4410N/edit?usp=sharing&amp;oid=103699762347996947643&amp;rtpof=true&amp;sd=true</a> |
| 12 | Mrs.K.VALARMA<br>THI  | ASSISTANT PROFESSOR | <a href="https://docs.google.com/document/d/1QP6nXkRSPDHc9FRfO0gwSKBtenqE2x6Y/edit">https://docs.google.com/document/d/1QP6nXkRSPDHc9FRfO0gwSKBtenqE2x6Y/edit</a>   |
| 13 | Mrs.J.SUTHA<br>MERLIN | ASSISTANT PROFESSOR | <a href="https://docs.google.com/document/d/1YslhjNAb1lb3tjeFu1yLO0u8yjH78lh3Yn8iYHZuzLE/edit?usp=sharing">https://docs.google.com/document/d/1YslhjNAb1lb3tjeFu1yLO0u8yjH78lh3Yn8iYHZuzLE/edit?usp=sharing</a>   |

### *Individual faculty profile of Dr. AHMED MUDASSAR ALI Professor & Head*

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Dr. AHMED MUDASSAR ALI, B.E., M.E., Ph.D.,  
Professor & Head,  
Department of Information Technology,  
S.A. Engineering College, Chennai-77.

**Professional Experience:**

| Period of work        | No. Of years | Position held  |
|-----------------------|--------------|--|
| June 2018 – Till Date | 4.6 years    | Professor & Head,<br>Department of Information Technology,<br>S.A. Engineering College, Chennai  |
| Aug 2011- May 2018    | 6.10 years   | From 10-01-2012 Promoted as HOD<br>Associate Professor,<br>Department of Information Technology,<br>S.A. Engineering College, Chennai. |
| Jul 2006 – Jul 2011   | 5 years      | Assistant Professor, IT, S.A. Engineering College,<br>Chennai.   |

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### *Individual faculty profile of Mrs.A.M.Sermakani Assistant Professor*

A.M.SERMAKANI PROFILE

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Mrs.A.M.SERMAKANI., B.E., M.E.,(Ph.D).,  
Associate Professor ,  
Department of Information Technology,  
S.A. Engineering College, Chennai-77.

**Objective:** With sound technical knowledge as background and with innovative ideas, I am awaiting to work on challenging jobs that expose my skills and potential ability. Also looking for the opportunity where I can build my career and quality by utilizing my **16.8 years** of experience.

**Skills:**

|                  |   |
|------------------|---|
| Operating System | : Windows, Linux- CentOS, Ubuntu                              |
| Language         | : C, C++, Java, C#, Python                                    |
| Cloud Technology | : Oracle Virtual box, VMWare Workstation, CentOS, open Nebula |
| File System      | : Hadoop Distributed File System (HDFS)                       |
| WEB Technologies | : HTML, CSS, PHP,ASP.Net, J2EE                                |

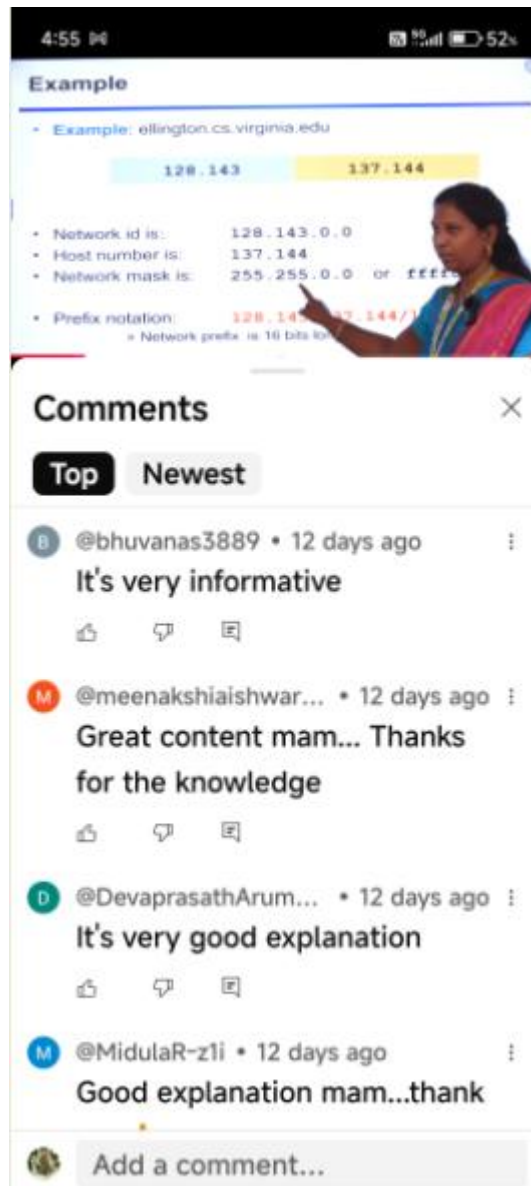
Waiting for play.google.com...

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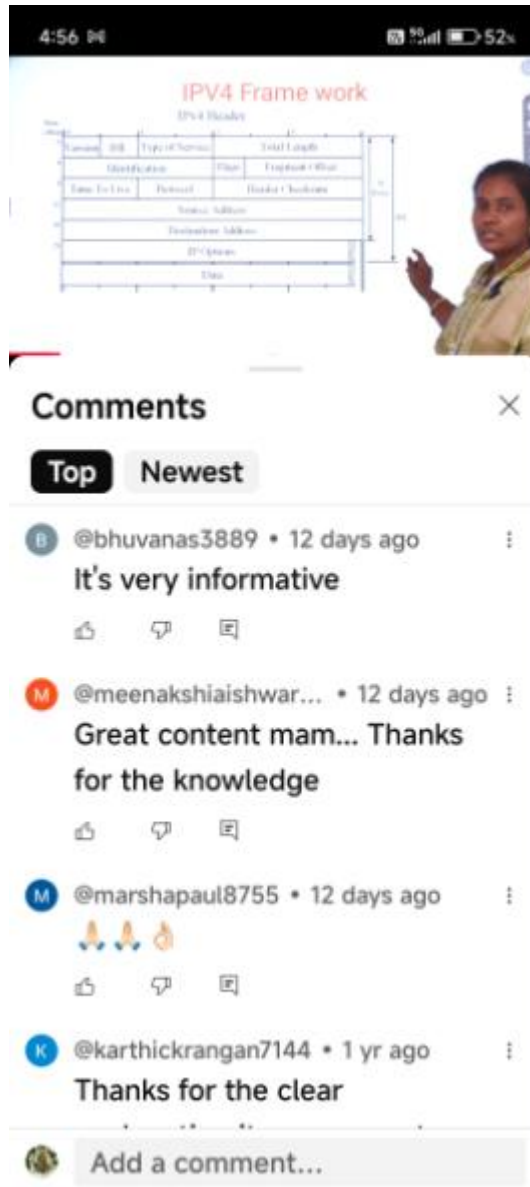
## 5.6. C. THE WORK MUST BE AVAILABLE FOR PEER REVIEW AND CRITIQUE

*A.M.Sermakani Asst.Prof You Tube Videos*



*A.M.Sermakani Asst.Prof delivered a comprehensive overview of network IP addressing on You Tube and sample screenshot of peer review and critique*

***K. Valarmathi Asst.Prof You Tube Videos***



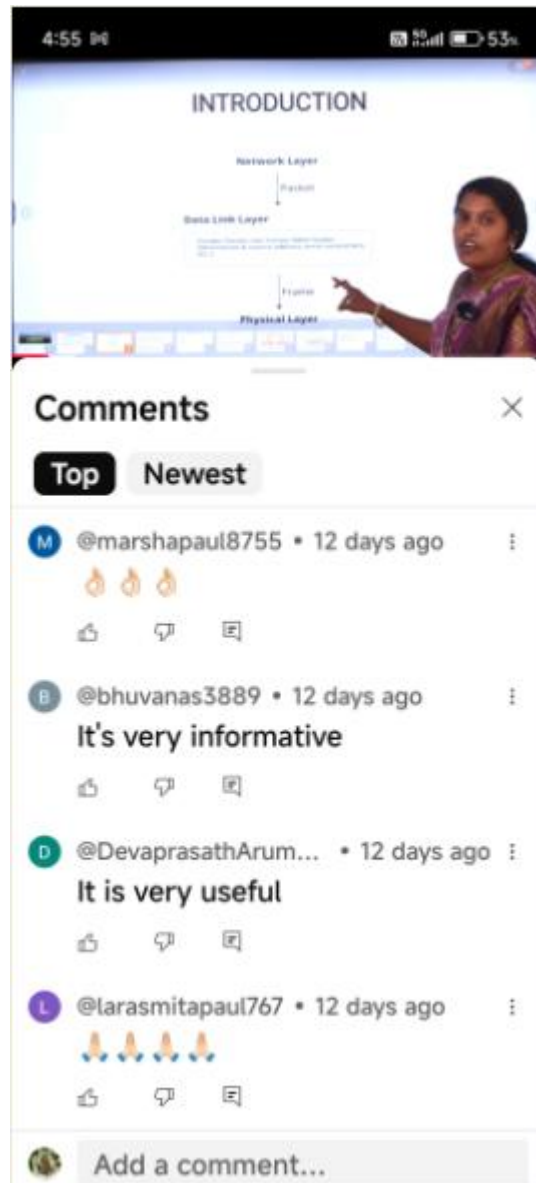
***K.Valarmathi Asst.Prof presented on computer networks addressing fundamentals and implementation on You Tube and sample screenshot of peer review and critique***

*Prof.Geetha You Tube Videos*



*Prof.Geetha delivered a comprehensive overview of Finite Automata and Regular Languages on  
You Tube and sample screenshot of peer review and critique*

*S.Asha Asst.Prof You Tube Videos*



*S.Asha Asst.Prof demonstrated data link layer techniques on You Tube and sample screenshot of peer review and critique*

**5.6.C. THE WORK MUST BE REPRODUCIBLE AND DEVELOPED FURTHER BY  
OTHER SCHOLARS**

**LIST OF VIDEOS UPLOADED IN YOUTUBE**

| <b>S.NO</b> | <b>Name of the Faculty</b> | <b>Name of the Module</b>                                  | <b>Date of Launching e-content</b> | <b>Link to the relevant document</b>  |
|-------------|----------------------------|--|------------------------------------|---|
| 1.          | Dr.M.GEETHA                | Finite Automata & Regular Languages                        | 12.07.2024                         | <a href="https://youtu.be/8GvqGH8uHiQ?si=i4FKxa5VTmj42DAh">https://youtu.be/8GvqGH8uHiQ?si=i4FKxa5VTmj42DAh</a> |
| 2.          | Mrs.S.ASHA                 | Data link layer: Framing                                   | 19.07.2024                         | <a href="https://youtu.be/52hIYR88R9Q?si=XbKUL4IU_SUZ3-tT">https://youtu.be/52hIYR88R9Q?si=XbKUL4IU_SUZ3-tT</a> |
| 3.          | Mrs.A.M.SERMAKANI          | IP addressing, IPv4, CIDR notation                         | 22.07.2024                         | <a href="https://youtu.be/vWYs7tUk2uM?si=ypt-yrBzIYmCw3-R">https://youtu.be/vWYs7tUk2uM?si=ypt-yrBzIYmCw3-R</a> |
| 4.          | Mrs.K.VALARMATHI           | Fragmentation  | 25.07.2024                         | <a href="https://youtu.be/RglXPpTfsyQ?si=XgFmPdJXARawWg5Z">https://youtu.be/RglXPpTfsyQ?si=XgFmPdJXARawWg5Z</a> |
| 5.          | Mrs.A.SEETHA               | TCP/IP Protocol stacks.                                    | 27.07.2024                         | <a href="https://youtu.be/tMwxS1JGJnQ?si=3yFc9KRpeUKzOTyD">https://youtu.be/tMwxS1JGJnQ?si=3yFc9KRpeUKzOTyD</a> |
| 6.          | Mr.P.SENTHIL               | Application Layer Protocols : DNS , SMTP,HTTP, FTP, E-mail | 08.08.2024                         | <a href="https://youtu.be/m23u0IDMJ44?si=AyvjIYrxWGSbp2Zm">https://youtu.be/m23u0IDMJ44?si=AyvjIYrxWGSbp2Zm</a> |
| 7.          | Mrs.D.CHITHRA              | Distance vector and Link state routing protocols           | 09.08.2024                         | <a href="https://www.youtube.com/watch?v=MJwVBwR-72M">https://www.youtube.com/watch?v=MJwVBwR-72M</a>           |
| 8.          | Mrs.HIMA VIJAYAN           | Basics of IP support protocols (ARP, DHCP, ICMP)           | 10.08.2024                         | <a href="https://youtu.be/6XZxCITjGIY?si=G-uIB7Q7ZB3NeyJD">https://youtu.be/6XZxCITjGIY?si=G-uIB7Q7ZB3NeyJD</a> |
| 9.          | Mrs.S. KRISHNAVENI         | Transport Layer: TCP                                       | 10.08.2024                         | <a href="https://youtu.be/MyEXU2VRseQ?si=r-YAE7rdtIATQt3t">https://youtu.be/MyEXU2VRseQ?si=r-YAE7rdtIATQt3t</a> |
| 10.         | MRS.J.SUTHA MERLIN         | UDP protocol   | 07.10.2024                         | <a href="https://youtu.be/KNbnRpzVWhU?si=Omjv76ntEBJJT3Eg">https://youtu.be/KNbnRpzVWhU?si=Omjv76ntEBJJT3Eg</a> |

|     |                    |  |            |   |
|-----|--------------------|--|------------|---|
| 11. | Ms.JULIA FAITH S   | congestion control                             | 09.10.2024 | <a href="https://youtu.be/uubrLC3FEQk?si=H27F2cc6VMO0P9tI">https://youtu.be/uubrLC3FEQk?si=H27F2cc6VMO0P9tI</a> |
| 12. | Mrs.T.VEENA        | Error detection                                | 09.10.2024 | <a href="https://youtu.be/hHM2IGFKh5I?si=8ogdsMV16rAAOGhb">https://youtu.be/hHM2IGFKh5I?si=8ogdsMV16rAAOGhb</a> |
| 13. | Dr.M.GEETHA        | Push Down Automata                             | 22.11.2024 | <a href="https://youtu.be/jKees8CJdms?si=1rcBpWmernKV3GaJ">https://youtu.be/jKees8CJdms?si=1rcBpWmernKV3GaJ</a> |
| 14. | Mrs.A.M.SERMAKANI  | Medium Access Control                          | 29.01.2025 | <a href="https://www.youtube.com/watch?v=MzavabDgtrw">https://www.youtube.com/watch?v=MzavabDgtrw</a>           |
| 15. | Mrs.S.ASHA         | Basics of Packets, Flow control and Sockets    | 07.02.2025 | <a href="https://www.youtube.com/watch?v=aXNmliHpQaU">https://www.youtube.com/watch?v=aXNmliHpQaU</a>           |
| 16. | Mrs.HIMA VIJAYAN   | Operating Systems: Paging                      | 02.04.2024 | <a href="https://youtu.be/AnQYcPL5KOo?si=LML-W8fQ4HsTGJEf">https://youtu.be/AnQYcPL5KOo?si=LML-W8fQ4HsTGJEf</a> |
| 17. | Mrs.D.CHITHRA      | Data Structures: Tree Traversals               | 06.04.2024 | <a href="https://youtu.be/92oEZRzGZe0?si=nGDjGmMQV4Da53IS">https://youtu.be/92oEZRzGZe0?si=nGDjGmMQV4Da53IS</a> |
| 18. | Mrs.S. KRISHNAVENI | Compiler Design: Lexical Analysis              | 06.04.2024 | <a href="https://youtu.be/TB6PGoUO_0Y?si=m_7F3dlkMGt1ndW">https://youtu.be/TB6PGoUO_0Y?si=m_7F3dlkMGt1ndW</a>   |
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*Asst. Prof. S. Krishnaveni delivered a YouTube session on compiler design covering reproducible processes*

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COMPILER DESIGN  
LEXICAL ANALYSIS

S.KRISHNAVENI,  
ASSISTANT PROFESSOR  
INFORMATION

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*J. Sutha Merlin, Assistant Asst. Prof, shared PowerPoint presentation covered the OSI reference Model*

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# OSI Reference Model Architecture with GATE Q&A

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OSI Model: Introduction OSI or Open System Interconnection model was developed by International Standards Organization (ISO). It has seven inter-connected layers. The seven layers of the OSI Model are: 1. Physical layer...

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OSI Model introduction  
Please refer to the introduction material and answer the following questions.  
1. What is the purpose of the OSI Model?  
2. What are the seven layers of the OSI Model?  
3. What is the function of the Physical layer?  
4. What is the function of the Data Link layer?  
5. What is the function of the Network layer?  
6. What is the function of the Transport layer?  
7. What is the function of the Session layer?

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OSI Model diagram

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