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Innovative Methods by the Faculty used for Teaching & Learning Process:
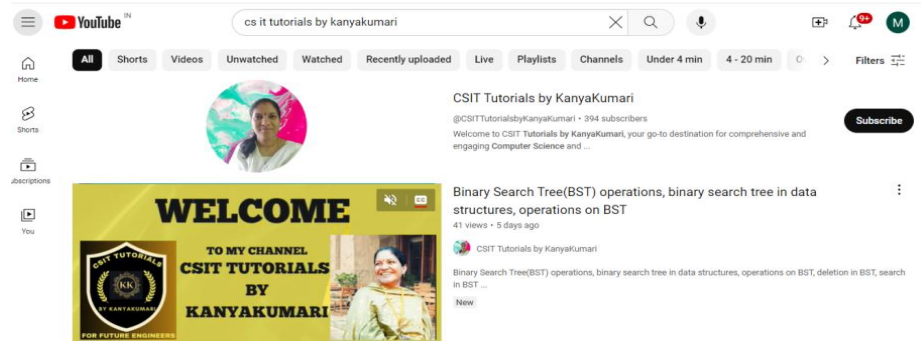
1. Project-Based Learning:

Project-based instruction is an instructional approach designed to give students the opportunity to develop knowledge and skills through engaging projects set around challenges and problems they may face in the real world.

2. YouTube Channel by faculty:

Faculty created their YouTube channels for storing their lectures so that these lectures can be used by students for clarification of doubts after class.

Channel Link: https://www.youtube.com/@CSITTutorialsbyKanyaKumari

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3. Activity Based Learning:

Activity-based learning is the process of learning by performing tasks or activities. As opposed to asking Students to simply listen and take notes, activity-based learning motivates students to participate in their own learning experience via practical activities such as independent investigation and problem-solving.


Activity Based learning improves **teamwork skills** and help Student feel included. Putting students into small groups for projects can be beneficial as it encourages them to be confident and makes everyone in the class feel like their contributions are important.

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4) Learning By Visualization

a) Power point presentations:

Power-Point presentations are used by faculty to enhance teaching and learning experience by including pictures, images, and questions. This encourages and facilitates students to understand the concepts in a structured manner.
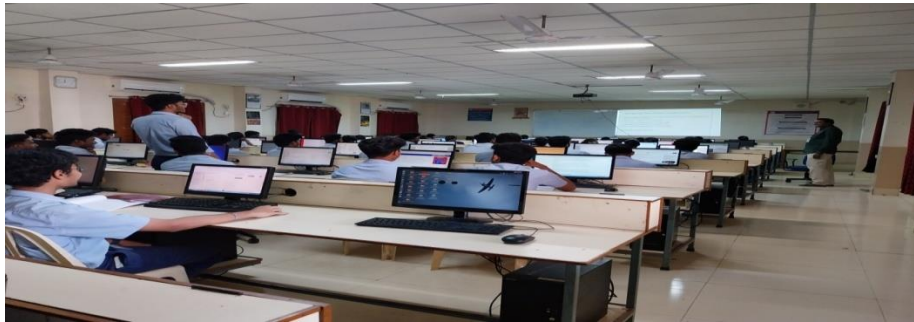
b) Videos (Self-Recorded, NPTEL, Intel lab etc.):

Students have the access to recorded lectures of professors from IITs, NITs and other renowned Institutes/Universities through NPTEL platforms. The learning materials available on different online platforms are shared with the students as reference material for learning from divergent sources.

●   For some subjects, the slides are created with animations.

●   For certain topics, videos are shown and then the teaching is continued to provide realistic over view and better understanding.

●   National Program on Technology Enhanced Learning (NPTEL) has also been used. Through videos students get better exposure through visualization.

NPTEL video Sample

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Table: NPTEL Certifications

S.No	Academic Year	Total No. of Students Certified
1	CAY:2023-24	123
2	CAYm1:2022-23	23
3	CAYm2:2021-22	49

Sample certificates:

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NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to

VUTUKURI ROSHAN CHAND

for successfully completing the course

Cloud Computing

with a consolidated score of **50** %

| Online Assignments | 20.03/25 | Proctored Exam | 30/75 |

Total number of candidates certified in this course:**16686**

Jul-Oct 2023

(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

C) Smart screen/Smart Class room:

Smart Screen/Flat Panels are installed in the department. These panels provide various features that can be utilized for a better online or offline teaching process.

5. Quiz

Quiz is used as an assessment tool to improve the instructional methods and student feedback through the teaching and learning process. They learn to work in a team.

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6. Asking Open-Ended Questions:

Teachers promote lively in-class discussions by asking open-ended questions – those which have multiple possible solutions. Students can put together cohesive elements based on their own knowledge as well as present information to piece together a solution, which they can then support, using evidence. This can help the students not just to find their voice, but also to express themselves and support their reasoning.

7. Instruction Delivery using Microsoft Teams:

MS Teams for education allows the teachers to set up specific team for classes, professional learning communities, staff members etc.
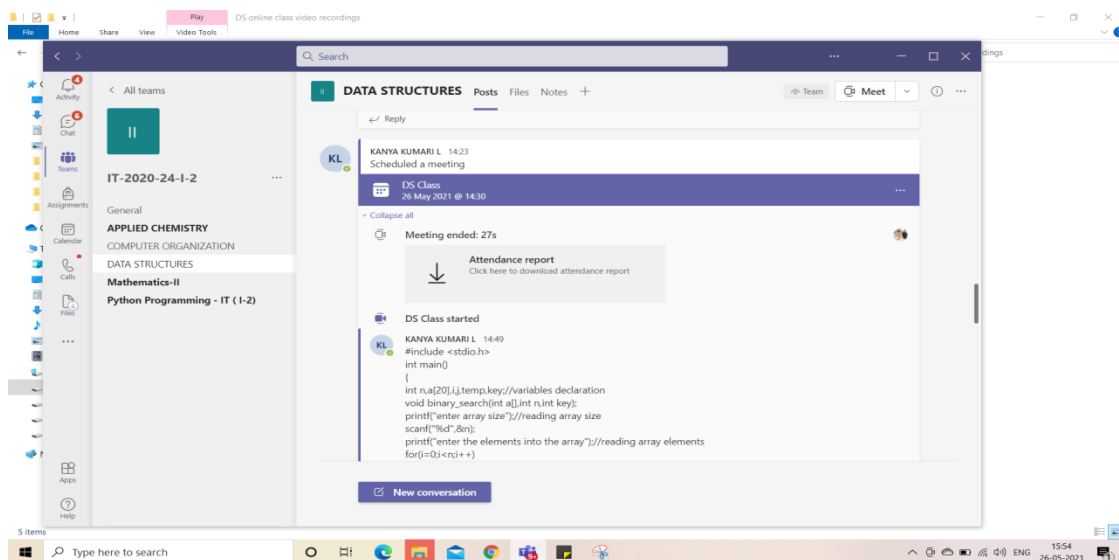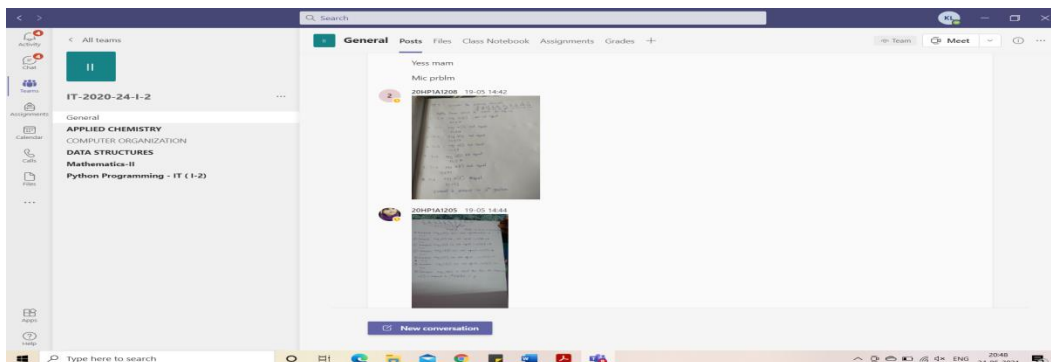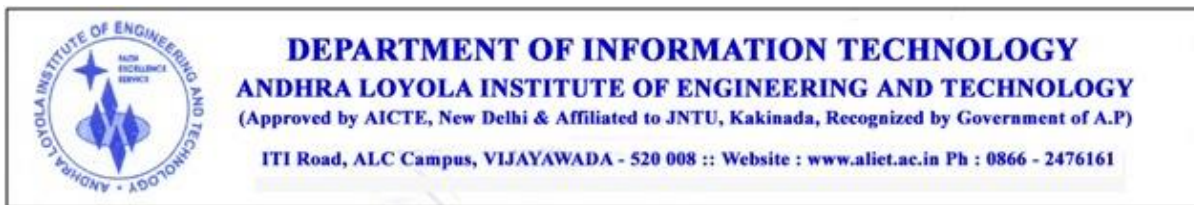
8. Web Resources (Blogs):

Each faculty having a blogs accessible to the students that contains instructional materials which can be accessed using the following link

https://aliet.ac.in/IT/IT-faculty.html

sample blogs Screen shorts:

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Dr.V.Shanmukha Rao, Assoc.Prof, Dept. of IT, ALIET

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VIEWERS
8,561

STUDENT CORNER
Micro Lesson plan
Student Canvas LMS Tool Login
Published Courses
University Syllabus
Student Publications
College Website - ALIET
JNTUK notifications
JNTUK Examination Info
Student JNTUK Results
Class on Microsoft Teams
Google meeting

Published Courses

SUBJECTS ON LMS TOOL

- Human Computer Interaction
- E Commerce
- Data Warehousing and Business Intelligence
- Software Engineering
- Computer Organization
- Computer Organization & Architectures
- Management Information System
- Software Project Management
- Computer Networks
- Computer Network Security
- Database Management System
- Digital Logic Design

SEARCH FOR MY POSTS

Search

Dr.V.Shanmukha Rao, Assoc.Prof, Dept. of IT, ALIET

DEPARTMENT OF IT
ALIET IT DEPARTMENT

Mr. S.Kishore Babu

Assoc.Proff, Department of IT,ALIET

| Home | Profile | Subjects | Research and FDP's | Achivements/Certifications | Software Proficiency | Roles and Responsibilities | Virtual Labs |

Subjects

1.**Data Warehousing And Business Intelligence** (R16)

Micro Lesson Plan
Embedded Lesson Plan   ClickHere
Question Bank
Previous Questions
Syllabus

9. Virtual Labs:

Virtual labs are conducted for few courses in classroom so that students can model & design experiment for physical systems and get results through computer interface.

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| Learning Management system | Instructional Materials | Lab Manuals | Video Tutorials | Virtual Labs~ | Digital Teachers | Certification Courses |

VIRTUAL LABS AND SIMULATIONS

| FIRST YEAR | – |

LABORATORY NAME	VIRTUAL LAB NAME	OPEN VIRTUAL LAB
C PROGRAMMING LAB	MHRD's vlab.co.in	LINK
	AP GOVT ILMS (LAB1)	LINK
	AP GOVT ILMS (LAB2)	LINK

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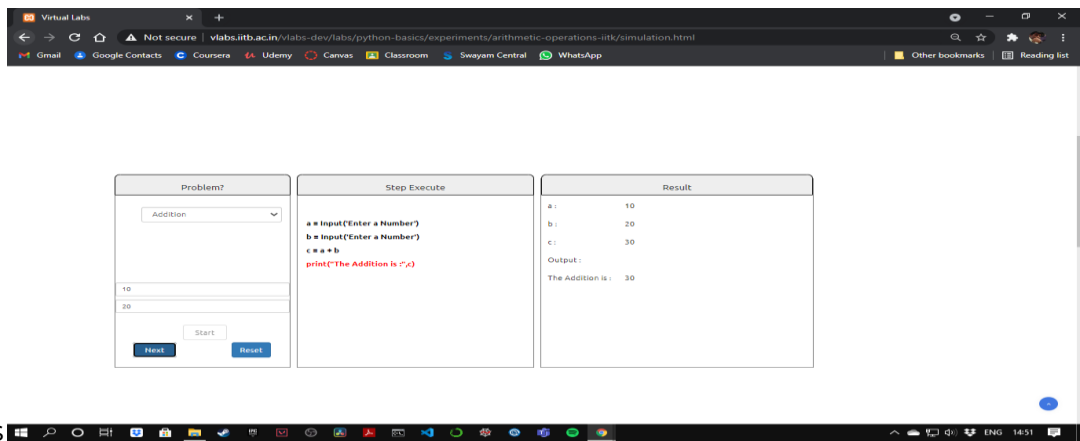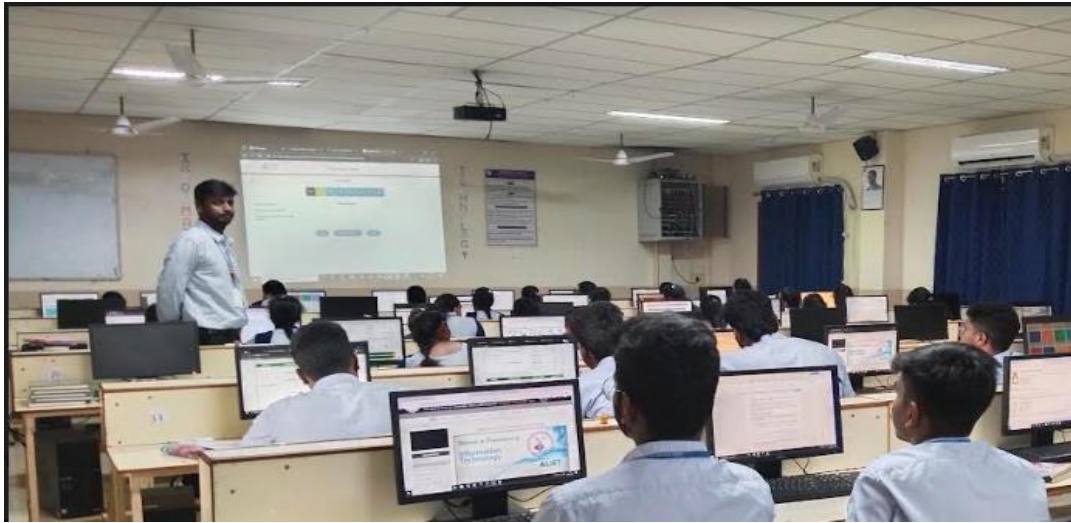
10. Collaborative Learning:

Students are encouraged to learn from their peer groups and present the topics in front of small groups of the students of their own class. Collaborative learning is also promoted to increase the confidence level of the students and prepare them for real world challenges faced during presenting their own work or ideas. Collaborative learning is encouraged for the students in a number of courses.

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LMS(Learning Management System)

The entire faculty in the department follows different LMS platform such as Canvas, Google classroom and Model for better understanding of the subject. It helps the faculty to conduct quiz, assignments and publish the notes.

Table 5.5.1. Teaching innovation by the faculty members

S.No	Name of the Faculty	Name of the Course	Innovative Methods	Website Link
1	Mr.S. KISHORE BABU	Advanced Unix Programming	**LMS platform: Canvas** **Microsoft Teams**	http://aliet.ac.in/IT/it/itict.html http://aliet.ac.in/IT/LMS.htm

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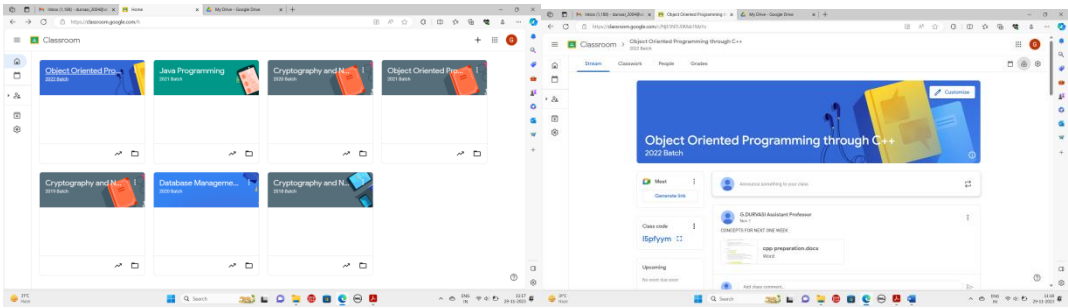| 2	Dr. V. SHANMUKHA RAO	Data warehousing and Business intelligence	**LMS platform: Canvas** **Microsoft Teams**	http://aliet.ac.in/IT/it/itict.html https://vshanmukharao.blogspot.com/http://aliet.ac.in/IT/LMS.htm
3	Mr.V. VIDYA SAGAR	Advanced Java Programming, Big Data Analytics, Hadoop and Bigdata,	**LMS platform: Canvas** **Microsoft Teams**	http://aliet.ac.in/IT/it/itict.html http://aliet.ac.in/IT/LMS.htm
4	Mrs. G. DURVASI	Web technologies and Cryptography	**LMS platform:** Googleclassroom **Microsoft Teams**	http://aliet.ac.in/IT/it/itict.html http://aliet.ac.in/IT/LMS.htm
5	Mr.Md.Imran	C-Programming Language and DBMS	**LMS platform:** Googleclassroom **Microsoft Teams**	http://aliet.ac.in/IT/it/itict.html http://aliet.ac.in/IT/LMS.htm
6	Mr.P.NAGABABU	Principles of software Engineering and Operating Systems	**LMS platform:** Googleclassroom **Microsoft teams**	http://aliet.ac.in/IT/it/itict.html http://aliet.ac.in/IT/LMS.htm
7	Mrs.L.Kanya Kumari	Mobile Communications and Data Structures	**LMS platform:** Googleclassroom **Microsoft Teams**	http://aliet.ac.in/IT/it/itict.html http://aliet.ac.in/IT/LMS.htm
8	Mrs.M.Sri Lakshmi Vani	Operating Systems and Distributed Systems	**LMS platform: Canvas** **Microsoft Teams**	http://aliet.ac.in/IT/it/itict.html http://aliet.ac.in/IT/LMS.htm

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9	Dr.D.Ratna Kishore	Software Testing Methodologies and MIS	**LMS platform:** Googleclassroom **Microsoft Teams**	http://aliet.ac.in/IT/it/itict.html http://aliet.ac.in/IT/LMS.htm
10	Mr.D.S.Srinivas	Artificial Neural Networks	**Google Class Room**	http://aliet.ac.in/IT/it/itict.html http://aliet.ac.in/IT/LMS.htm
11	Mrs.T.Harika	Python Programming	**Google Class Room**	http://aliet.ac.in/IT/it/itict.html http://aliet.ac.in/IT/LMS.htm

Canvas LMS sample   **Microsoft Teams sample**

Google class room