PSNA COLLEGE OF ENGINEERING AND TECHNOLOGY, DINDIGUL

(An Autonomous Institution affiliated to Anna University, Chennai)

Department of Computer Science and Engineering

1.1. Flipped Learning:

Flipped Learning using YouTube videos and PowerPoint presentations is an innovative teaching method where students engage with new content at home. In this approach, faculty members provide pre-recorded YouTube lectures and PowerPoint presentations in advance, enabling students to learn concepts at their own pace. Classroom time is then dedicated to interactive discussions, problem-solving, and hands-on activities, allowing students to deepen their understanding through active learning.
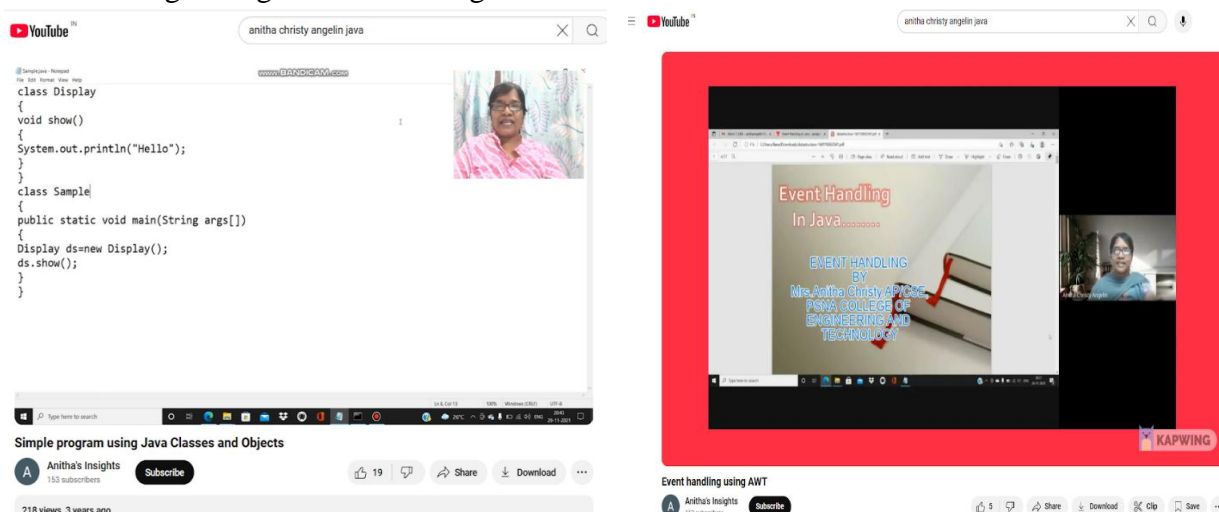

Figure 1. Flipped Learning

2022-23

Sl. No	Course Code	Course Title	Faculty Name	Innovative Teaching Methodology	Topic
1.	CS2221	Programming in C	Mrs.T.Deepa	*Flipped Learning* - Animated Video	Linked List
2.	CS2221	Programming in C	Mr.M.Kamarajan	*Flipped Learning* - Animated Video	Linked List
3.	CS3352	Foundation of Data Science	Dr.Y.Arockia Raj	*Flipped Learning* - Demonstration	Data Visualization
4.	CS3352	Foundation of Data Science	Dr.N.Kalpana	*Flipped Learning* - Demonstration	Data Visualization

Sl. No	Course Code	Course Title	Faculty Name	Innovative Teaching Methodology	Topic
5.	CS8501	Theory of Computation	Dr.D.Suresh	*Flipped Learning -* Animated Video	Turing Machine
6.	CS8501	Theory of Computation	Mrs.C.Sathya	*Flipped Learning -* Animated Video	Turing Machine
7.	CS8501	Theory of Computation	Dr.N.Dhanalakshmi	*Flipped Learning -* Animated Video	Halting problem
8.	CS8591	Computer Networks	Ms.S.Naganandhini	*Flipped Learning -* Animated Video	OSI Model
9.	CS8603	Distributed Systems	Mrs.G.Mariammal	*Flipped Learning -* Animated Video	Checkpointing and Rollback

2023-2024

Sl. No	Course Code	Course Title	Faculty Name	Innovative Teaching Methodology	Topic
1.	CS2312	Data Structures	Dr.A.Thomas Paul Roy, Prof	*Flipped Learning -* Animated Video	Stack and Queue
2.	CS2312	Data Structures	Dr.N.Dhanalakshmi, Prof	*Flipped Learning -* Animated Video	Searching and sorting
3.	CS2312	Data Structures	Dr.S.Faritha Begum, AP	*Flipped Learning -* Animated Video	Prims & Kruskals Algorithm
4.	CS3591	Computer Networks- Lab integrated	Mrs.G.Mariammal, AP	*Flipped Learning -* Animated Video	Subnetting
5.	CS3554	Distributed Computing	Mrs.T.Deepa, AP	*Flipped Learning -* Animated Video	Log-based rollback recovery
6.	CCS344	Cyber Security and Practices domain- Ethical Hacking- Lab integrated	Dr.M.Buvana,ASP	*Flipped Learning -* Demonstration	Hack the Mobile SMS
7.	CCS365	Software defined networks	Dr.N.Kalpana, AP	*Flipped Learning -* Demonstration	Virtual box/Mininet

					Environment for SDN
8.	CCS342	Devops	Mrs.T.Deepa, AP	*Flipped Learning -* Animated Video	DevOps CI/CD
9.	CCS342	Devops	Mr.M.Kamarajan, AP	*Flipped Learning -* Animated Video	DevOps CI/CD

2024-2025