KGiSL INSTITUTE OF TECHNOLOGY

(Affiliated to ANNA University, Chennai and Approved by AICTE, New Delhi)
Recognized by UGC, Accredited by NBA (B.Tech-IT)
KGiSL Campus, 365, Thudiyalur Road, Saravanampatti, Coimbatore – 641035

INTERNAL QUALITY ASSURANCE CELL (IQAC)

Implementation details of Innovative Teaching Practices

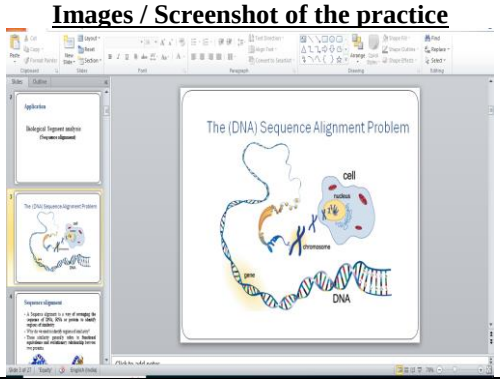
Year / Semester / Section: II/ IV/ A&B	**Degree & Branch: B.E. CSE**
Course Code: CS8451	**Course Name: Design and Analysis of Algorithms**
Unit: 2	**Topic: String matching**
Activity Chosen: Lecture with Analogy	

Details of the Implementation:

- The concept of string matching is explained with an analogy in the classroom for 20 minutes.
- Based on the discussion, the faculty will ask the students to think about the given problem for 5 minutes individually without discussing it with others in the class.
- Finally faculty asks the students to share their views with the entire class to assess the understanding of the topic.
- Faculty records their proceedings and measures students' progress before and after implementation.

PO	PO1	PO2	PO8	PO10	PO12	
Relevance	**1**	**2**	**1**	**1**	**2**	

Images / Screenshot of the practice



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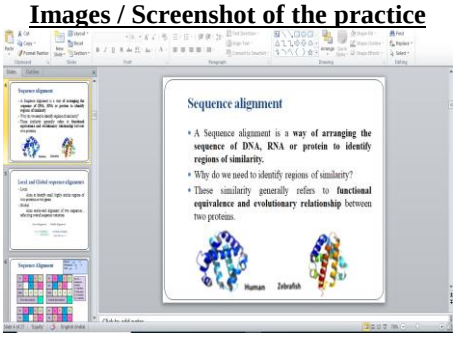

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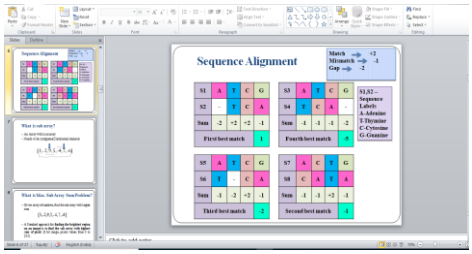

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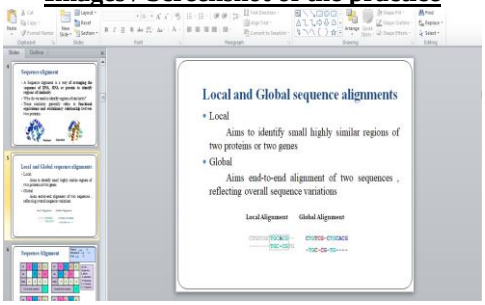

Benefit of the practice:

- Lecture with Analogy helps the students to have better understanding of the concept of string matching and relate it to real world applications

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Implementation details of Innovative Teaching Practices

Year / Semester / Section: II/ IV/ A&B	**Degree & Branch:** B.E. CSE
Course Code: CS8451	**Course Name:** Design and Analysis of Algorithms
Unit: 2	**Topic:** Closest pair & Convex Hull problem
Activity Chosen: Lecture with Analogy	

Details of the Implementation:

- The concept of closest pair & convex Hull problem is explained with an analogy in the classroom for 20 minutes.
- Based on the discussion, the faculty will ask the students to think about the given problem for 5 minutes individually without discussing it with others in the class.
- Finally faculty asks the students to share their views with the entire class to assess the understanding of the topic.
- Faculty record their proceedings and measure students' progress before and after implementation.

PO	PO1	PO2	PO8	PO10	PO12	
Relevance	**1**	**2**	**1**	**1**	**2**	

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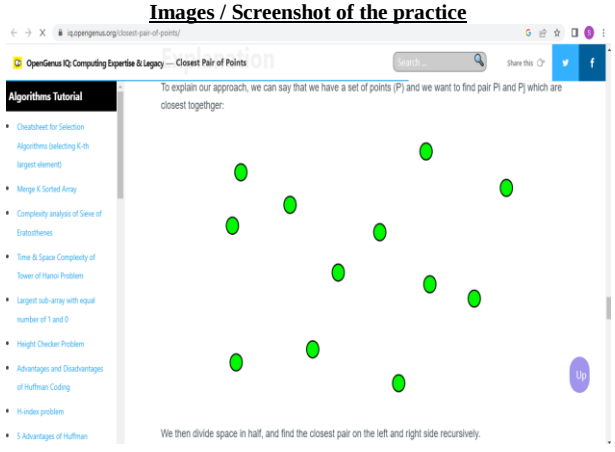

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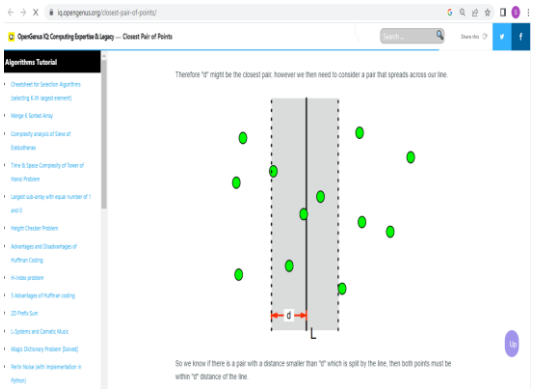

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Benefit of the practice:

- Lecture with Analogy helps the students to have better understanding of the concept of closest pair and convex hull concepts and relate it to real world applications

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Implementation details of Innovative Teaching Practices

Year / Semester / Section: II/ IV/ A&B	**Degree & Branch: B.E. CSE**
Course Code: CS8493	**Course Name: Operating Systems**
Unit: I	**Topic: Computer System Overview, Basic Elements & Instruction Execution**
Activity Chosen: Lecture with Analogy	

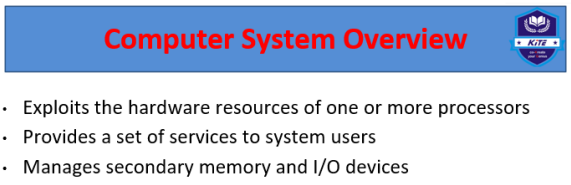
Details of the Implementation:

- The concept of Computer System Overview and Elements is explained with an analogy in the classroom for 10 minutes.
- Based on the discussion, the faculty will ask the students to think about the given problem for 5 minutes individually without discussing it with others in the class.
- Finally faculty asks the students to share their views with the entire class to assess the understanding of the topic.
- Faculty records their proceedings and measures students' progress before and after implementation.

PO	PO1	PO2	PO10	PO12	PSO1	
Relevance	**2**	**2**	**1**	**2**	**2**	

Images / Screenshot of the practice

Images / Screenshot of the practice



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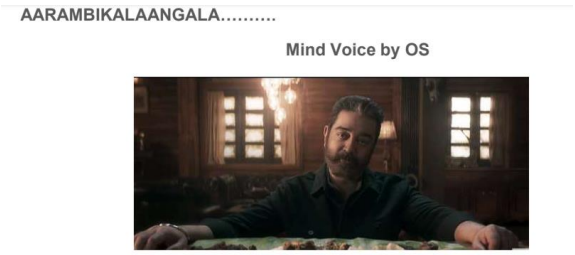

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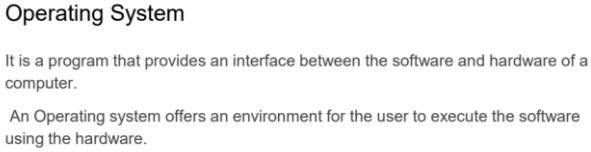

Benefit of the practice:

- Lecture with Analogy helps the students to have better understanding of the concept of Operating System and its elements

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Year / Semester / Section: II/ IV/ A&B	**Degree & Branch: B.E. CSE**
Course Code: CS8493	**Course Name: Operating Systems**
Unit: V	**Topic: Mobile OS - iOS and Android**
Activity Chosen: Lecture with Analogy	

Details of the Implementation:

- The difference between iOS and Android OS is explained with an analogy in the classroom for 20 minutes.
- Based on the discussion, the faculty will ask the students to think about the given problem for 5 minutes individually without discussing it with others in the class.
- Finally faculty asks the students to share their views with the entire class to assess the understanding of the topic.
- Faculty records their proceedings and measures students' progress before and after implementation.

PO	PO1	PO2	PO10	PO12	PSO1	
Relevance	**2**	**2**	**1**	**2**	**2**	

Images / Screenshot of the practice

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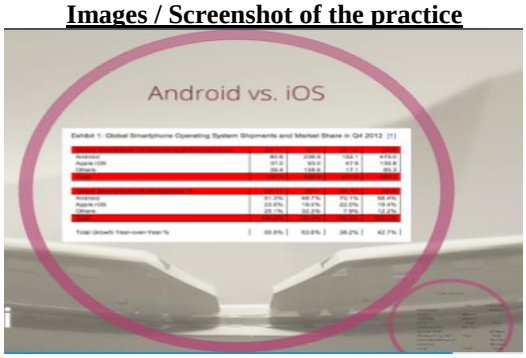

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	Android	iOS	Windows
Memory Management			
Memory usage	High	Low	High
Memory used for App handling	RAM	RAM	RAM + VM
Process running in background	Not Efficiently	Efficiently	Not Efficiently
Use of Garbage Collector	Yes	No	Yes
Background Processes	Do not freeze	Freeze	Suspend
To increase process speed	Uses internal memory	Don't use internal memory	Uses internal or virtual memory
Interface	User Friendly	User Friendly	Not User Friendly
Increase in Memory demand	Lag in app handling	No lag in app handling	Lag in app handling
Shortage of Memory	May kill some processes	Freeze background processes	Uses Virtual Memory
Capable of loading large number of apps	No	No	Yes
Security			
Arrival of new process	May kill existing process	Freeze some processes	No other processes will be affected
Utilities used	Own and third party	Own	Third Party Mostly
Issue Occurrence	Use patches	Use patches	Deliver updates
Rooting	Allowed	Not allowed	Not allowed

Benefit of the practice:

- Lecture with Analogy helps the students to have a clarity on what iOS and Android offers and what not.

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Year / Semester / Section: II/ IV/ A&B	**Degree & Branch: B.E. CSE**
Course Code: CS8493	**Course Name: Operating Systems**
Unit: II	**Topic: Synchronization hardware, Mutex locks**
Activity Chosen: Lecture with Analogy	

Details of the Implementation:

- The concept of Syncronization Hardware, Mutex locks is explained with an analogy in the classroom for 20 minutes.
- Based on the discussion, the faculty will ask the students to think about the given problem for 5 minutes individually without discussing it with others in the class.
- Finally faculty asks the students to share their views with the entire class to assess the understanding of the topic.
- Faculty records their proceedings and measures students' progress before and after implementation.

PO	PO1	PO2	PO10	PO12	PSO1	
Relevance	**2**	**2**	**1**	**2**	**2**	

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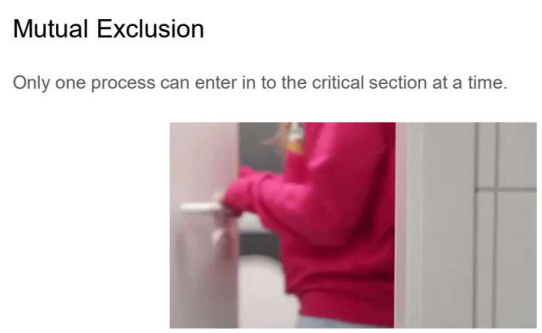

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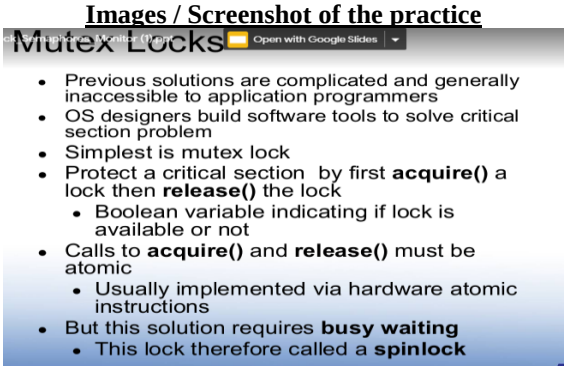

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Benefit of the practice:

- Lecture with Analogy helps the students to have better understanding of the Synchronization Hardware and Mutex locks.