GEETHANJALI INSTITUTE OF SCIENCE AND TECHNOLOGY
DEARTMENT OF COMPUTER SCIENCE & ENGINEERING
TEACHING AND LEARNING

PEDAGOGY REPORT

AcademicYear	2021-2022
NameoftheFaculty	K.Bala Krishna
CourseName/Code	Database Management Systems/ 20A05401T
Semester/Section	II-II/CSE-A
ActivityName	Participatory Learning -Seminar
Topic Covered	Overview of the SQL Query Language, SQL Data Definition
Date	18-05-22
No.of Participants	52
Objectives/Goals	To improve the self learning and communication skills of the students.
ICT Used	Chalk and talk
Appropriate Method/Instructional materials/Exam Questions • Initially delivered lecturer on Overview of the SQL Query Language, SQL Data Definition • Later students were assigned with the topic to present for Overview of the SQL Query Language, SQL Data Definition	
RelevantPO's:	**PO:1,3,5and 9,10,11**
Significance of Results/Outcomes	The students are able to analyze the given concept clearly about verview of the SQL Query Language, SQL Data Definition
Reflective Critique	The main goal of seminar is students able to learn and communicate in the class room. It provided a platform to enhance their knowledge and interact with others.

Proofs(Photographs/Videos/Reports/Charts/Models)

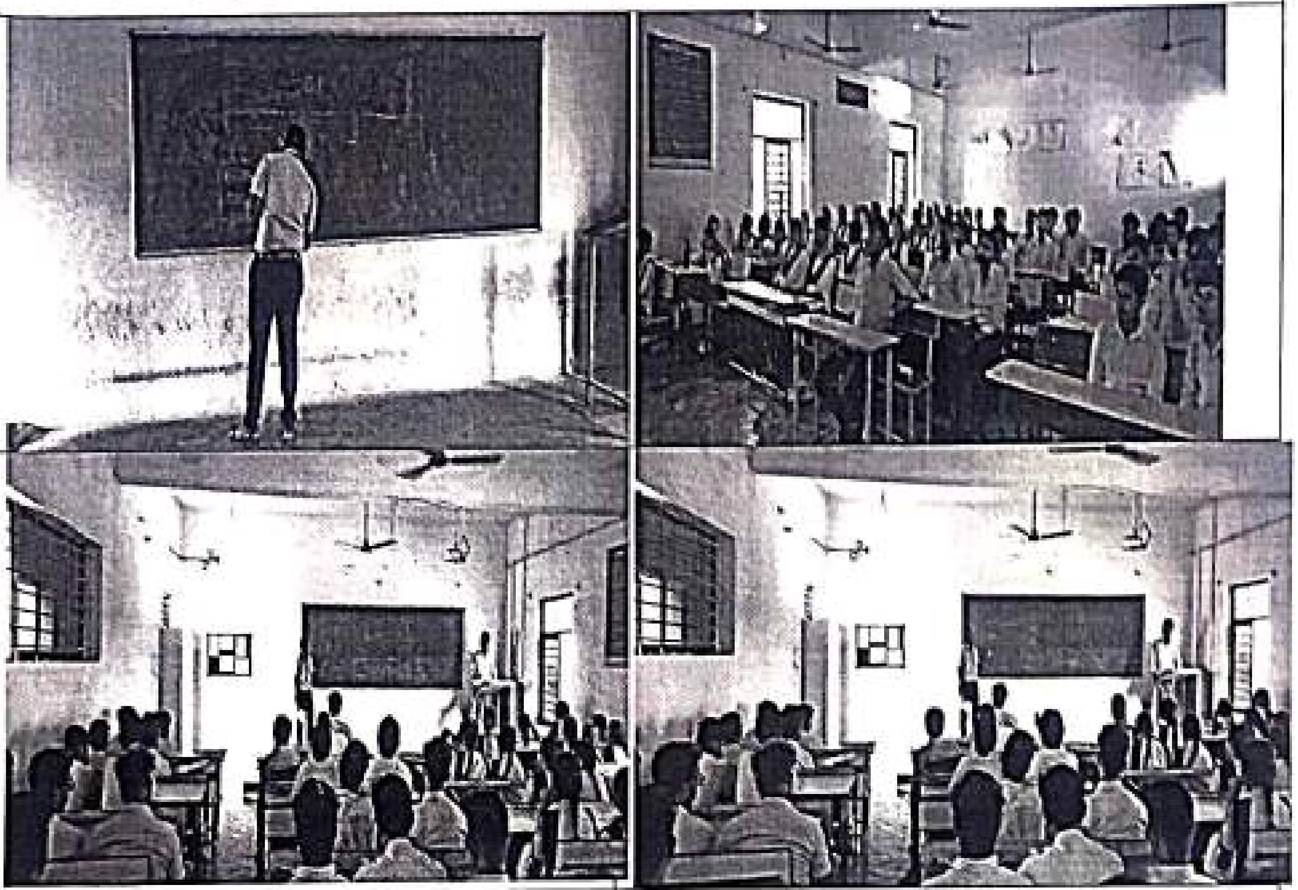

Fig. Photograph of Participatory Learning -Seminar using Chalk and talk

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PEDAGOGYREPORT

AcademicYear	2021-2022
NameoftheFaculty	K.Bala Krishna
CourseName/Code	Database Management Systems/ 20A05401T
Semester/Section	II-II/CSE-B
ActivityName	Participatory Learning - Group Task
TopicCovered	Database Systems Applications, Purpose of Database Systems and The Entity-Relationship Model
Date	25-06-2022
No.ofParticipants	60
Objectives/Goals	To understand the topics precisely
ICTUsed	LCD

Appropriate Method/Instructional materials/Exam Questions

Students are asked answer 10 quiz questions with multiple choice options. The quiz is conducted for 10 minutes. The Google forms are used to randomize the options. In the class room quiz is conducted for the students. The entire class students are grouped as 3 Teams. Each team has set 10
qns. The team lead chosen a chit to decide which Quiz they have to answer. As per the selection the
Questions are displayed through LCD to the team and quiz is conducted.
In this discussion, key questions to be examined are
1. Which of the following is not a database management system (DBMS)?
2.Which application commonly uses a NoSQL database system?
3. What is a key advantage of using a database system over a traditional file system?
4. Why is data independence important in a database system?
5.Which type of attribute can be divided into smaller subparts in an ER model?

RelevantPO's:	**PO:1,2,3 and 9**
Significance of Results/Outcomes	Students able to know the importance of experiential learning and understanding Database Systems Applications, Purpose of Database Systems and The Entity-Relationship Model
Reflective Critique	The main goal of this quiz is how Students will be able to set the qns, answer, explore and apply the knowledge effectively.

Proofs(Photographs/Videos/Reports/Charts/Models)

Fig. Photograph of Participatory Learning - Group Task conducted in Class room

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PEDAGOGY REPORT

Academic Year	2021-2022
Name of the Faculty	K.Bala Krishna
Course Name/Code	Database Management Systems/ 20A05401T
Semester/Section	II-II/CSE-A
Activity Name	Problem Solving-Classroom Exercise Problems
Topic Covered	Set Operations,Null Values,Aggregate Functions,Nested Sub-queries
Date	07-12-2021
No.of Participants	55
Objectives/Goals	To understand the topic through self learning
ICT Used	LCD

Appropriate Method/Instructional materials/Exam Questions

The Students of class provided with the following problems which they discussed & solved in classroom. The questions to be answered by them were as follows

- Given two tables Students_A and Students_B, each containing a single column Student_Name, write an SQL query to return a combined list of student names from both tables without duplicates.
- Given a table Grades with columns Student_ID and Score, write an SQL query to find the average score of all students.
- Given a table Registrations with columns Course_ID and Student_ID, write an SQL query to count the number of students registered in each course.ow to generate Mining Frequent Patterns with ?

In this activity, the solve Set Operations,Null Values,Aggregate Functions,Nested Sub-queries for solving different problems were used by the students.

Relevant PO's:	**PO:1,2,3,4,9,10**
Significance of Results/Outcomes	Students are able to understand Set Operations,Null Values,Aggregate Functions,Nested Sub-queries with examples of problem solving steps.
Reflective Critique	The main goal of this problem solving method is how the students will be able to develop problem solving skills and exhibit their capability in front of their peer.

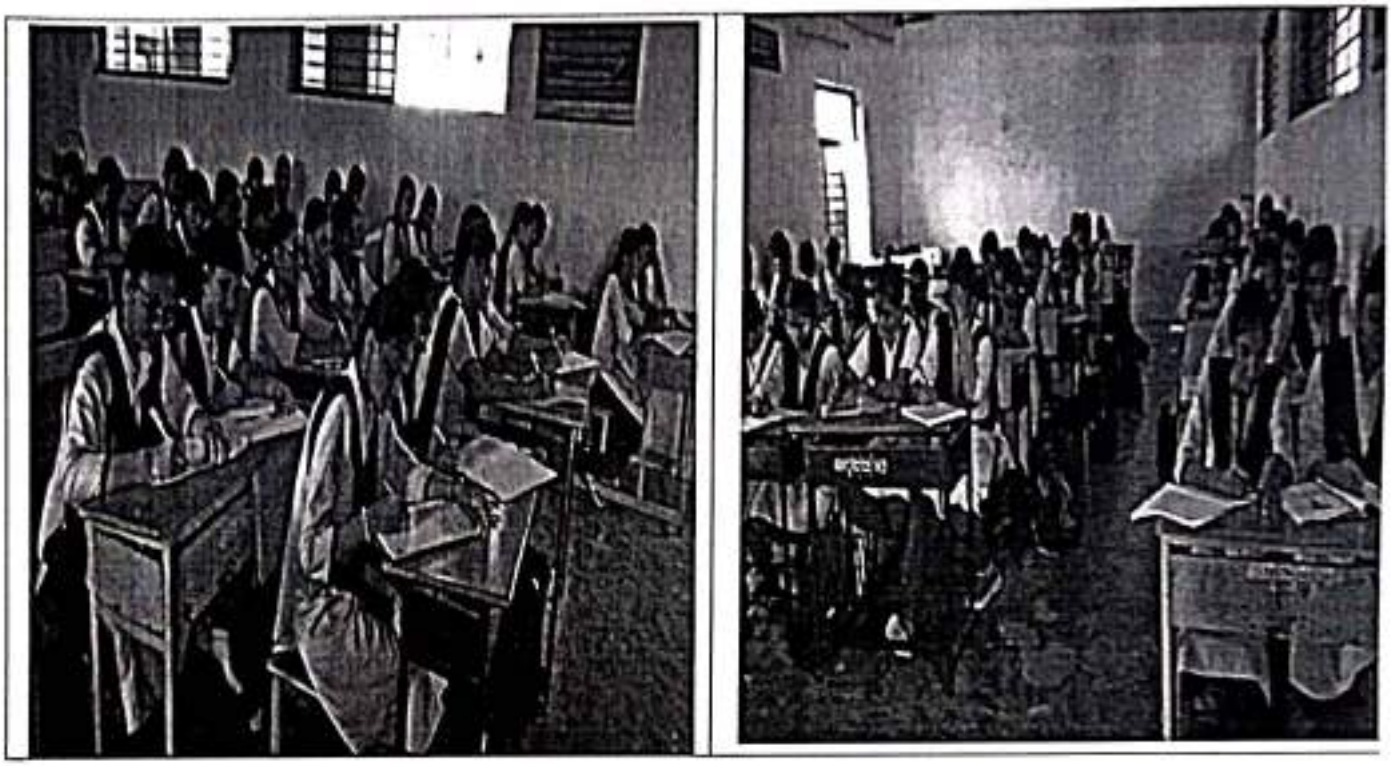

Fig. Photograph of Problem Solving-Classroom Exercise Problems on Analyzing Set Operations, Null Values, Aggregate Functions, Nested Sub-queries with examples

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PEDAGOGY REPORT

Academic Year	2021-2022
Name of the Faculty	K.Bala Krishna
Course Name/Code	Database Management Systems/ 20A05401T
Semester/Section	II-II/CSE-A
Activity Name	Participatory Learning – Peer Assisted learning
Topic Covered	Transaction Atomicity and Durability,Transaction Isolation
Date	10-08-2022
No.of Participants	60
Objectives/Goals	To understand the topic more precisely through self learning

Appropriate Method/Instructional materials/Exam Questions

The Students of class were engaged with new material individually at home to use classroom time to expand upon the topic under the guidance of the faculty. The flipped classroom allows faculty to spend less time explaining foundational knowledge and more time using their expertise to dig deeper into topics and further explore concepts. This new approach has proven popular with both faculty and students as it removes a large amount of lecture-style teaching and opens class time to a variety of group-based activities where students can take a more active role in their learning.

In this activity, the students have prior knowledge about graph problems and they analyze the solutions for All pairs shortest path problem.

Relevant PO's:	**PO:1,2,3 4,9,10**
Significance of Results/Outcomes	Students are able to understand aTransaction Atomicity and Durability,Transaction Isolation
Reflective Critique	The main goal of this Flipped classroom method is greaterTransaction Atomicity and Durability,Transaction Isolation

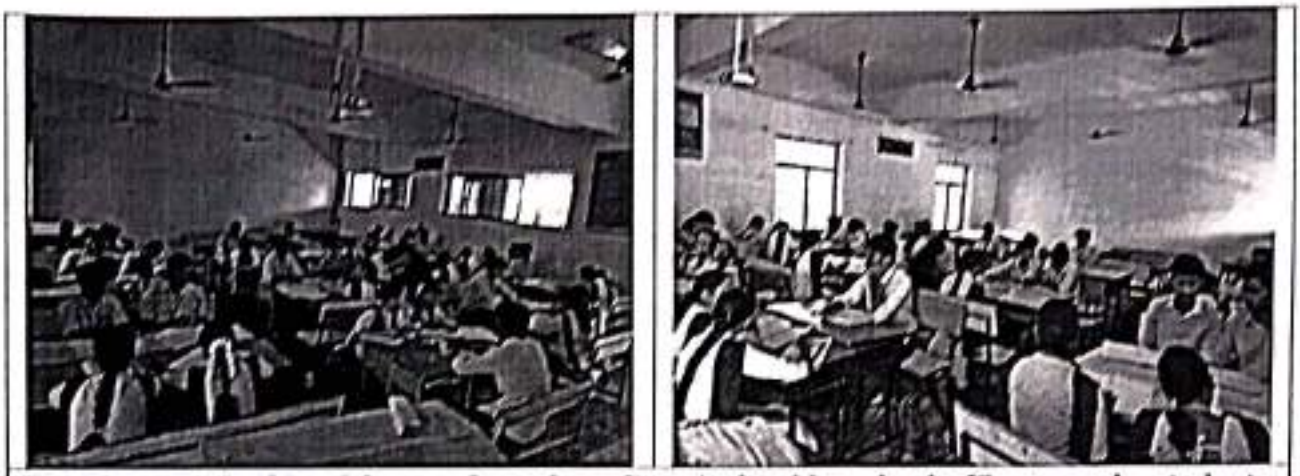

Fig. Photograph of Participatory Learning – Peer Assisted learning in Classroom by students

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PEDAGOGY REPORT

Academic Year	**2021-2022**
Name of the Faculty	**Dr.V.Sireesha**
Course Name/Code	**Discrete Mathematics & Graph Theory/20A54304**
Semester/Section	**II-II/CSE-A**
Activity Name	**Participatory Learning - Group Task**
Topic Covered	**Inclusion and Exclusion problem**
Date	**10-8-2021**
No. of Participants	**56**
Objectives/Goals	• Group discussions facilitate student interactions, helping them learn how to communicate effectively with others. They promote a deeper understanding and help increase long-term information retention. • Group discussions can also help increase students' attention and help maintain their focus by involving them in the learning process. • Group discussions enhance your interpersonal skills
ICT Used	**Board**

Appropriate Method:

Here are some steps that student can follow to start a group discussion:

1. Introduce yourself

2. Communicate clearly and fluently

3. Present the topic with an interesting take

4. Keep the content relevant

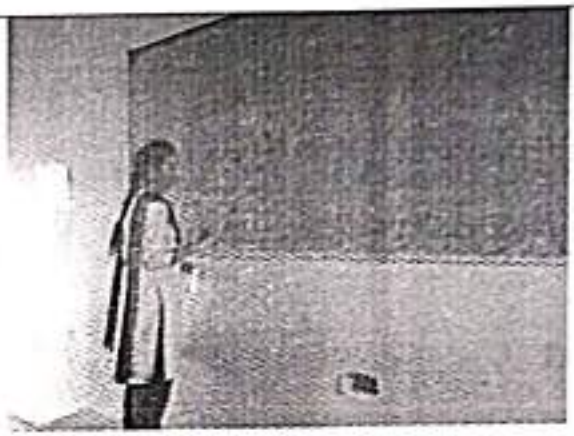
5. Use questions and quotes

6. Use your time efficiently

Relevant PO's:	**PO: 1,2,3, 5, 9, 10 and 12**
Significance of Results/Outcomes	• To Get Students Involved • To Build Team Spirit • To Increase Student Participation • To Improve Listening Skills • To Promote Critical Thinking

Reflective Critique	In GD, students work in groups to solve problems and learn from each other. It helps students develop their critical thinking skills, problem-solving abilities, and communication skills. Group Discussions are very important in teaching because it empowers teachers to help students in building their confidence.

Proofs (Photographs/Videos/Reports/Charts/Models)



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PEDAGOGY REPORT

Academic Year	**2021-2022**
Name of the Faculty	**Ms.N.Divya Sruthi**
Course Name/Code	**SOFTWARE ENGINEERING/20A05403T**
Semester/Section	**II-II/CSE-A**
Activity Name	**Role Play-Seminar**
Topic Covered	**Software Requirements Specification**
Date	**15-06-2022**
No.of Participants	**67**
Objectives/Goals	**To improve the self Learning and communication skills of the students.**
ICT Used	**PPTs/Chalk and Talk**

Appropriate Method/Instructional materials/Exam Questions

- Intitially lecture was delivered on testing
- In later classes topic assigned to students to express their opinion on various topics of testing

Software Requirement Specification (SRS):

It is a complete specification and description of requirements of the software that need to be fulfilled for the successful development of the software system. These requirements can be functional as well as non-functional depending upon the type of requirement. The interaction between different customers and contractors is done because it is necessary to fully understand the needs of customers.

Introduction: Purpose of this Document – At first, main aim of why this document is necessary and what's purpose of document is explained and described.

Scope of this document – In this, overall working and main objective of document and what value it will provide to customer is described and explained. It also includes a description of development cost and time required.

Overview – In this, description of product is explained. It's simply summary or overall review of product.

Functional Requirements: In this, possible outcome of software system which includes effects due to operation of program is fully explained. All functional requirements which may include calculations, data processing, etc. are placed in a ranked order. Functional requirements specify the expected behavior of the

system-which outputs should be produced from the given inputs. They describe the relationship between the input and output of the system. For each functional requirement, detailed description all the data inputs and their source, the units of measure, and the range of valid inputs must be specified.

Interface Requirements: In this, software interfaces which mean how software program communicates with each other or users either in form of any language, code, or message are fully described and explained. Examples can be shared memory, data streams, etc.

Performance Requirements: In this, how a software system performs desired functions under specific condition is explained. It also explains required time, required memory, maximum error rate, etc. The performance requirements part of an SRS specifies the performance constraints on the software system. All the requirements relating to the performance characteristics of the system must be clearly specified. There are two types of performance requirements: static and dynamic. Static requirements are those that do not impose constraint on the execution characteristics of the system. Dynamic requirements specify constraints on the execution behaviour of the system.

Design Constraints: In this, constraints which simply means limitation or restriction are specified and explained for design team. Examples may include use of a particular algorithm, hardware and software limitations, etc. There are a number of factors in the client's environment that may restrict the choices of a designer leading to design constraints such factors include standards that must be followed resource limits, operating environment, reliability and security requirements and policies that may have an impact on the design of the system. An SRS should identify and specify all such constraints.

Uses of SRS document:

- Development team require it for developing product according to the need.
- Test plans are generated by testing group based on the describe external behaviour.
- Maintenance and support staff need it to understand what the software product is supposed to do.
- Project manager base their plans and estimates of schedule, effort and resources on it.
- customer rely on it to know that product they can expect.
- As a contract between developer and customer.
- in documentation purpose.

Relevant PO's:	**PO:1,2,3and9,10**
Significance of Results/Outcomes	Students able to understand the concept of software testing , types of software testing.
Reflective Critique	With the Case Study Question the main goal is to understand the concept of software testing

Proofs (Photographs/Videos/Reports/Charts/Models)

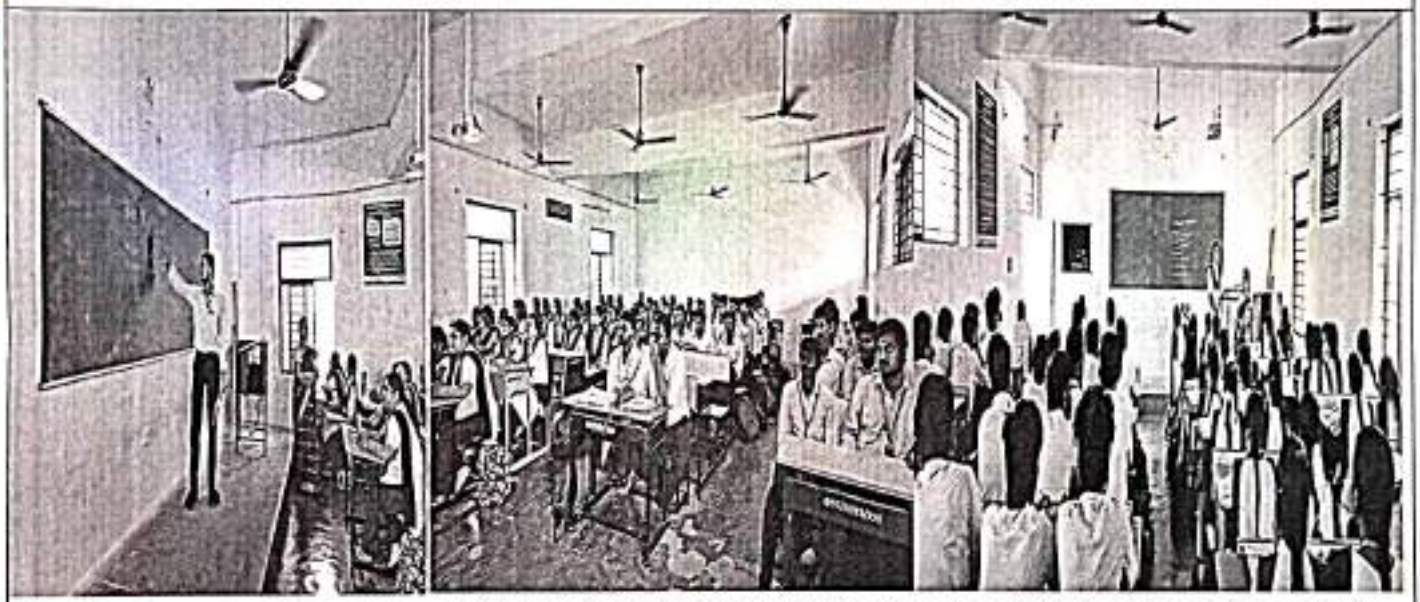

Fig: Photo graph of Seminar on Software Requirements Specification in software engineering, activity in class room SB 202 by the students

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TEACHING AND LEARNING

PEDAGOGY REPORT

Academic Year	**2021-2022**
Name of the Faculty	**Ms.N.Divya Sruthi**
Course Name/Code	**SOFTWARE ENGINEERING/20A05403T**
Semester/Section	**II-II/CSE-B**
Activity Name	Participatory Learning -Poster Presentation
Topic Covered	**Agile models**
Date	**30-05-2022**
No.of Participants	**70**
Objectives/Goals	• To Improve the self-learning and Presentation skills of students. • To Improve the Communication skills of students.
ICT Used	**Posters**
Appropriate Method/Instructional materials/Exam Questions • Initially delivered lectures on Agile Model. • Later students were formed into groups, assigned with a topic, asked to prepare A3 size Poster, and give oral presentation. • Students are given with additional Information/Sources from which they can prepare.	
Relevant PO's:	**PO: 1,2,3and9,10**
Significance of Results/Outcomes	Students tried to explore the importance of Agile Model.
Reflective Critique	• The activity improved the self-learning of students. • The activity provided a platform for students to interact with peers, improve their communication skills and work as Individuals and as team.

Proofs(Photographs/Video/Charts/Reports/Models

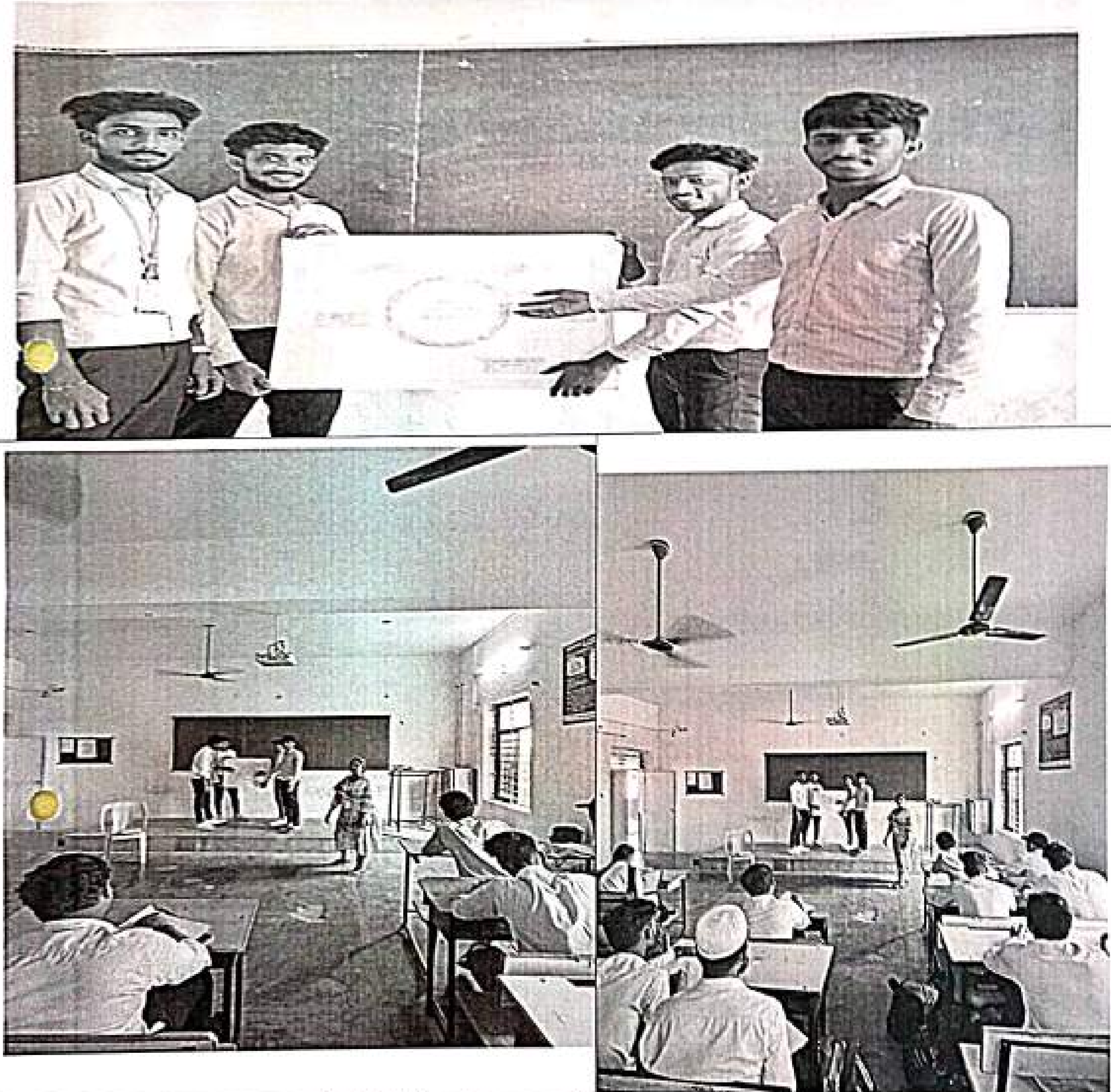

Fig: Photo graph of poster on Agile Model in software engineering, activity in class room SB 203 by the students

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PEDAGOGY REPORT

AcademicYear	2021-22
NameoftheFaculty	Ms V Sireesha
CourseName/Code	OPERATING SYSTEM/20A05402T
Year/Semester	II-II/CSE
ActivityName	Participatory Learning -PPT
Previous Knowledge	Gantt charts
TopicCovered	Scheduling algorithms
Date	27th may 2022
No.ofParticipants	66
Objectives/Goals	To understand the topic through self learning
ICT, Used Material	LCD, Board

Appropriate Method/Instructional materials/Exam Questions

This report delves into the problem-solving aspects of scheduling algorithms, illustrating their Practical applications, and providing step-by-step solutions to common scheduling challenges. The Students of class provided with the following problems which they discussed & solved. The questions to be answered by them were as follows

Discuss about the following:

- CPU Utilization Throughput, Turnaround Time, Waiting Time, Response Time
- Problem: Given a list of processes with their burst times, determine the average waiting time and average turnaround time using FCFS scheduling, Shortest Job Next (SJN) / Shortest Job First (SJF), Priority Scheduling, Round Robin (RR)

.

RelevantPO's:	**PO:1,2,3,9&10**
Significance of Results/Outcomes	The Presentation will show how a person can Analyze how different scheduling algorithms are applied in various operating systems and their impact on system performance..
Reflective Critique	The activity Provided a platform for students to interact and to improve their communication skills, to work in a group.

Proofs(Photographs/Videos/Reports/Charts/Models)

Photograph of students finding the Avg waiting time and Avg turn around time using scheduling algorithms

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PEDAGOGY REPORT

Academic Year	2021-2022
Name of the Faculty	Mr. Sk Asiff
Course Name/Code	BIG DATA ANALYTICS/19A05602T
Semester/Section	III-II CSEA
Activity Name	Participatory Learning -Seminar
Topic Covered	Pig Latin
Date	7th July 2022
No.of Participants	53
Objectives/Goals	To understand the topic through self learning
ICT Used	Chalk and Board

AppropriateMethod/InstructionalMaterials/ExamQuestions

The students of class provided with the following concepts which they delivered and discussed classroom. The questions to be answered by them were as follows

- What is Apache Pig?
- Why Do We Need Apache Pig?
- What are the Features of Pig?
- What is pig Latin data model?

Inthisactivity,keyquestionsare pig, pig Latin, map, tuple, bag and atom.

Relevant PO's:	**PO:1,2,5,9and10**
Significance of Results/Outcomes	Students able to understand how to write the pig Latin scripts in big data
Reflective Critique	The main goal of this Seminar method is how well students will be able to Encouraging passionate dialogue and active engagement, Enhancing students' skills and knowledge, Improving communication skills, Gaining expert knowledge.

Proofs(Photographs/Videos/Reports/Charts/Models)

Fig. Photograph of Seminar on Pig Latin in Classroom Number SB-204 by students.

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TEACHING AND LEARNING
PEDAGOGY REPORT

Academic Year	**2021-2022**
Name of the Faculty	**V.Gayatri**
Course Name/Code	**Cryptography & Network Security/ 19A05601**
Semester/Section	**III-II CSE/A**
Activity Name	**Power Point Presentation**
Topic Covered	**Transport Layer Security**
Date	**29th April 2022**
No. of Participants	**63**
Objectives/Goals	**To understand the topics through self learning**
ICT Used	**LCD**

Appropriate Method/Instructional materials/Exam Questions

Students are given some topics for power point presentation. The presentation was conducted for 30 minutes. After their presentation, the same topics were discussed by faculty with some real time examples.

The questions to be answered by them were as follows:

1. What is Security?
2. What is Transport Layer Security?
3. How to provide Transport Layer Security to the networks?

Relevant PO's:	**PO:1,2,3and 10**
Significance of Results/Outcomes	Students able to understand the processing of Transport Layer Security.
Reflective Critique	The main goal of this PPT method is how well students will be able to convey a lot of information to a group of students and are created with instructional design principles to keep the audience engaged for a long period.

Proofs(Photographs/Videos/Reports/Charts/Models)

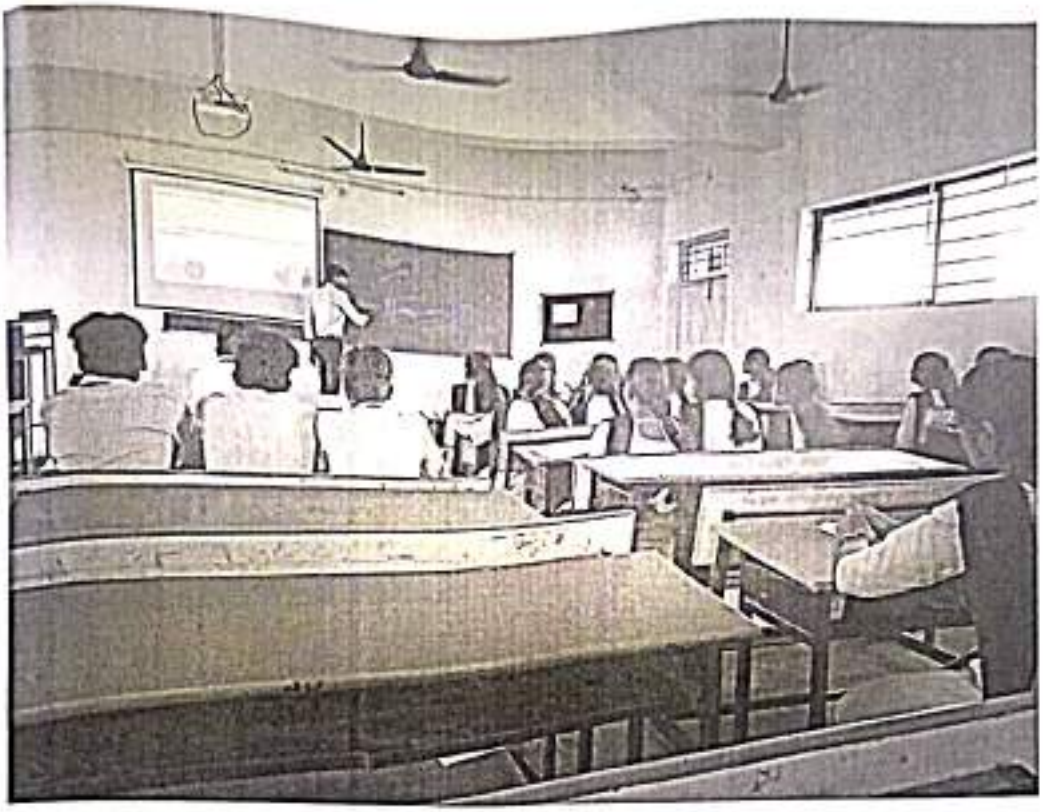

Fig. Photographs of PPT on Transport Layer Security in classroom SB-204

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PEDAGOGY REPORT

Academic Year	**2021-2022**
Name of the Faculty	**V.Gayatri**
Course Name/Code	**Cryptography & Network Security/ 19A05601**
Semester/Section	**III-II CSE/A**
Activity Name	**Case Studies**
Topic Covered	**Message authentication codes**
Date	**12th April 2022**
No. of Participants	**61**
Objectives/Goals	**To understand the topic through case study**
ICT Used	**LCD, Board and Chalk**

Appropriate Method/Instructional materials/Exam Questions

The Students were provided with the following Case Study which they solved and presented.

Message Authentication Codes (MACs) are cryptographic algorithms used to verify the integrity and authenticity of a message. MACs are crucial in ensuring data integrity and authenticity in many applications, providing a way to verify that data has not been altered by unauthorized parties during transmission.

In this case study, key questions to be examined will be applying MAC's to the confidential data, the following questions should be answered:

1. How to analyze the Message Authentication Codes?
2. What are the different algorithms that use the MAC?

Relevant PO's:	**PO:1,2,3,9 and 10**
Significance of Results/Outcomes	Students able to understand how to analyze Message Authentication Codes.
Reflective Critique	The main goal of Case Study method is how well students will be able to: Encouraging passionate dialogue Active engagement Enhancing students skills and knowledge Improving communication skills Gaining expertise knowledge

Proofs(Photographs/Videos/Reports/Charts/Models)

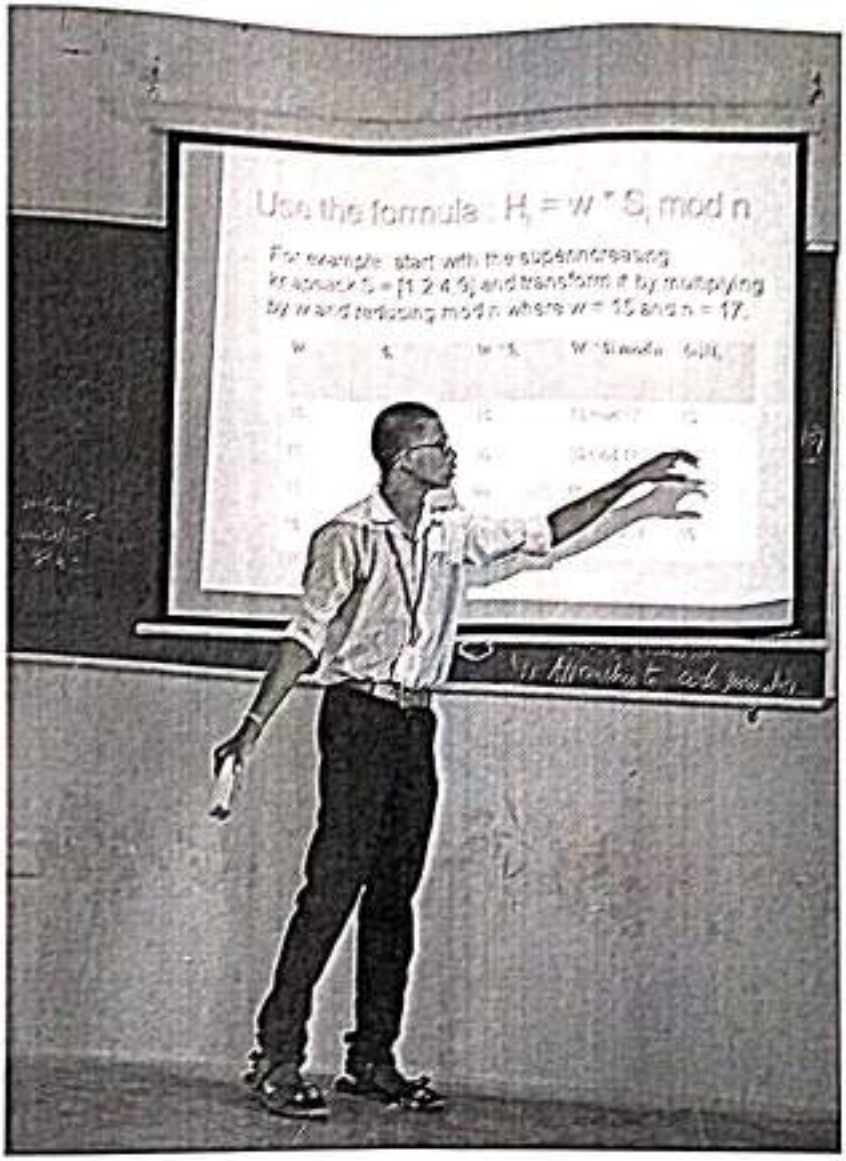

Fig. Photograph of Case Study on Message Authentication Codes in classroom EB-204

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TEACHING AND LEARNING
PEDAGOGY REPORT

Academic Year	2021-2022
Name of the Faculty	V.Gayatri
Course Name/Code	Cryptography & Network Security/ 19A05601
Semester/Section	III-II CSE/B
Activity Name	Power Point Presentation
Topic Covered	Transport Layer Security
Date	29th April 2022
No. of Participants	58
Objectives/Goals	To understand the topics through self learning
ICT Used	LCD

Appropriate Method/Instructional materials/Exam Questions

Students are given some topics for power point presentation. The presentation was conducted for 30 minutes. After their presentation, the same topics were discussed by faculty with some real time examples.

The questions to be answered by them were as follows:

1. What is Security?
2. What is Transport Layer Security?
3. How to provide Transport Layer Security to the networks?

Relevant PO's:	PO:1,2,3and 10
Significance of Results/Outcomes	Students able to understand the processing of Transport Layer Security.
Reflective Critique	The main goal of this PPT method is how well students will be able to convey a lot of information to a group of students and are created with instructional design principles to keep the audience engaged for a long period.

Proofs(Photographs/Videos/Reports/Charts/Models)

Fig. Photographs of PPT on Transport Layer Security in classroom SB-205

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TEACHING AND LEARNING
PEDAGOGY REPORT

Academic Year	2021-2022
Name of the Faculty	V.Gayatri
Course Name/Code	Cryptography & Network Security/ 19A05601
Semester/Section	III-II CSE/B
Activity Name	Case Studies
Topic Covered	Message authentication codes
Date	12th April 2022
No. of Participants	60
Objectives/Goals	To understand the topic through case study
ICT Used	LCD, Board and Chalk

Appropriate Method/Instructional materials/Exam Questions

The Students were provided with the following Case Study which they solved and presented.

Message Authentication Codes (MACs) are cryptographic algorithms used to verify the integrity and authenticity of a message. MACs are crucial in ensuring data integrity and authenticity in many applications, providing a way to verify that data has not been altered by unauthorized parties during transmission.

In this case study, key questions to be examined will be applying MAC's to the confidential data, the following questions should be answered:

3. How to analyze the Message Authentication Codes?
4. What are the different algorithms that use the MAC?

Relevant PO's:	PO:1,2,3,9 and 10
Significance of Results/Outcomes	Students able to understand how to analyze Message Authentication Codes.
Reflective Critique	The main goal of Case Study method is how well students will be able to: Encouraging passionate dialogue Active engagement Enhancing students skills and knowledge Improving communication skills Gaining expertise knowledge

Proofs(Photographs/Videos/Reports/Charts/Models)

Fig. Photograph of Case Study on Message Authentication Codes in classroom EB-205

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TEACHING AND LEARNING

PEDAGOGY REPORT

Academic Year	2021-2022
Name of the Faculty	Mr. Sk Asift
Course Name/Code	BIG DATA ANALYTICS/19A05602T
Semester/Section	III-II CSE-B
Activity Name	Participatory Learning -Seminar
Topic Covered	Pig Latin
Date	8th July 2022
No.of Participants	51
Objectives/Goals	To understand the topic through self learning
ICT Used	Chalk and Board

AppropriateMethod/Instructionalmaterials/ExamQuestions

The students of class provided with the following concepts which they delivered and discussed classroom. The questions to be answered by them were as follows

- What is Apache Pig?
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Relevant PO's:	**PO:1,2,5,9and10**
Significance of Results/Outcomes	Students able to understand how to write the pig Latin scripts in big data
Reflective Critique	The main goal of this Seminar method is how well students will be able to Encouraging passionate dialogue and active engagement, Enhancing students' skills and knowledge, Improving communication skills, Gaining expert knowledge.

Proofs(Photographs/Videos/Reports/Charts/Models)

Fig. Photograph of Seminar on Pig Latin inClassroom Number SB-205 bystudents.

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TEACHING AND LEARNING

PEDAGOGY REPORT

Academic Year	2021-2022
Name of the Faculty	Mr. Sk Asiff
Course Name/Code	BIG DATA ANALYTICS/19A05602T
Semester/Section	III-II CSEA
Activity Name	Participatory Learning -PPT
TopicCovered	Hadoop Ecosystem
Date	13th May 2022
No.of Participants	58
Objectives/Goals	To understand the topic through self learning
ICT Used	LCD

Appropriate Method/Instructional materials/Exam Questions

The students of class provided with the following concepts which they presented and discussed classroom. The questions to be answered by them were as follows

- What is Hadoop Ecosystem?
- Whatarethevarious tools in Hadoop ecosystem?
- What are the Advantages and uses of tools?

In this activity,key questions are Hadoop, Hadoop ecosystem, MapReduce, HDFS, Yarn, Pig and etc.

Relevant PO's:	**PO:8, 9and10**
Significance of Results/Outcomes	Students able to understand the various big data tools in Hadoop ecosystem
Reflective Critique	The main goal of thisPPT method is how well students will be able to convey a lot of information to a group of students and are created with instructional design principles to keep the audience engaged for a long period.

Proofs(Photographs/Videos/Reports/Charts/Models)

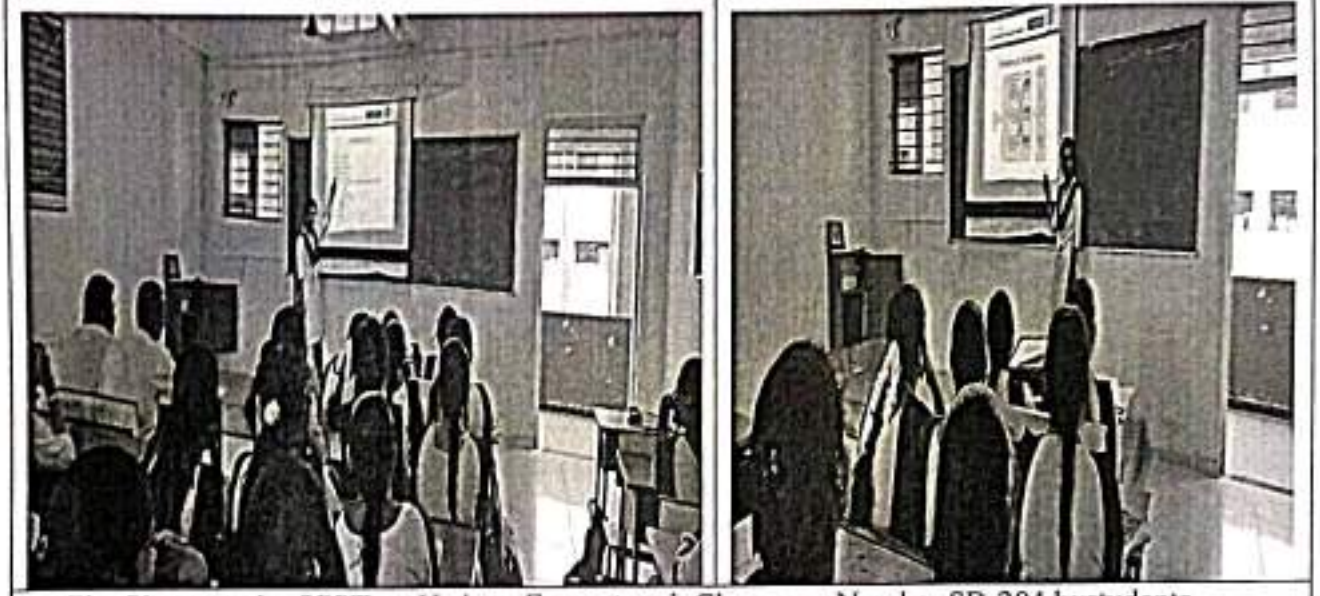

Fig. Photograph of PPT on Hadoop Ecosystem inClassroom Number SB-204 bystudents.

Signature of Course Incharge

Signature of HOD

GEETHANJALI INSTITUTE OF SCIENCE AND TECHNOLOGY
DEARTMENTOF COMPUTER SCIENCE&ENGINEERING
TEACHING AND LEARNING

PEDAGOGY REPORT

Academic Year	2021-2022
Name of the Faculty	Mr. Sk Asiff
Course Name/Code	BIG DATA ANALYTICS/19A05602T
Semester/Section	III-II CSEB
Activity Name	Participatory Learning -PPT
Topic Covered	Hadoop Ecosystem
Date	12th May 2022
No.of Participants	59
Objectives/Goals	To understand the topic through self learning
ICT Used	LCD

Appropriate Method/Instructional materials/Exam Questions

Thestudents ofclassprovided with thefollowingconceptswhich theypresented and discussedclassroom. Thequestions to beansweredbythemwereas follows

- What is Hadoop Ecosystem?
- Whatarethevarious tools in Hadoop ecosystem?
- What are the Advantages and uses of tools?

In this activity,key questions are Hadoop, Hadoop ecosystem, MapReduce, HDFS, Yarn, Pig and etc.

Relevant PO's:	**PO:5, 9and10**
Significance of Results/Outcomes	Students able to understand the various big data tools in Hadoop ecosystem
Reflective Critique	The main goal of thisPPT method is how well students will be able to convey a lot of information to a group of students and are created with instructional design principles to keep the audience engaged for a long period.

Proofs(Photographs/Videos/Reports/Charts/Models)

Fig. Photograph of PPT on Hadoop Ecosystem inClassroom Number SB-205 bystudents.

Signature of Course Incharge

Signature of HOD