Department of Computer Science

A Guest lecture on

"PAGE REPLACEMENT ALGORITHMS"

26-7-2023

2022 - 23

Signature of the Lecturer   Signature of the Principal

To   Dt: 25-07-2023.

The Principal
V.V Giri Government Kalasala,
Dumpagadapa,Wt.G(dt),A.P.

Madam,

          Sub:-Permission toconduct the Online Guest lecture.

          I am G.Diana kamal and G.N.L.Pavani,working as lecturer's in Computer Science Department in our college.I request you give permission to conduct the guest lecture on "Page Replacement algorithms" by Smt.ch.Sarvani,Assistant professor in CSE dept. KL university deemed,Vijayawada on 26-07-2023.

                    Thanking you,

   Yours faithfully,
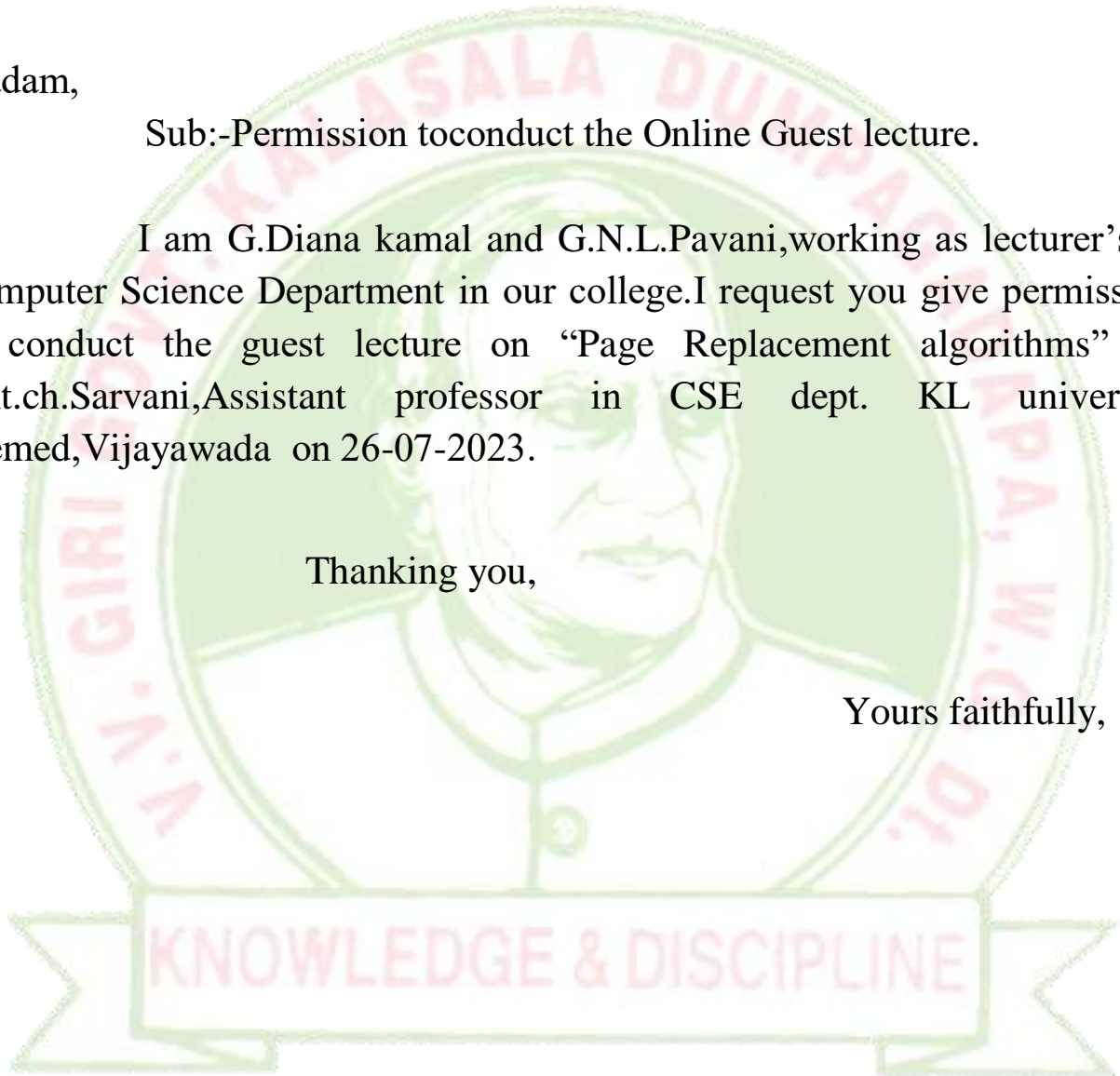
<u>Notice</u>

Dumpagadapa,
Dt:25-07-2023.

The department of Computer Science is going to organize guest lecture "PAGE REPLACEMENT ALGORITHM" by **Smt.ch.Sarvani**,Assistant professor in CSE dept.KL university deemed,Vijayawada on 26-07-2023 at 10.00 am. In this connection I request the computer science department's faculty,Msc students and second MPCs students to attend the program.

Lecturer in Computer Science
V.V.Giri Govt. Kalasala,
Dumpagadapa
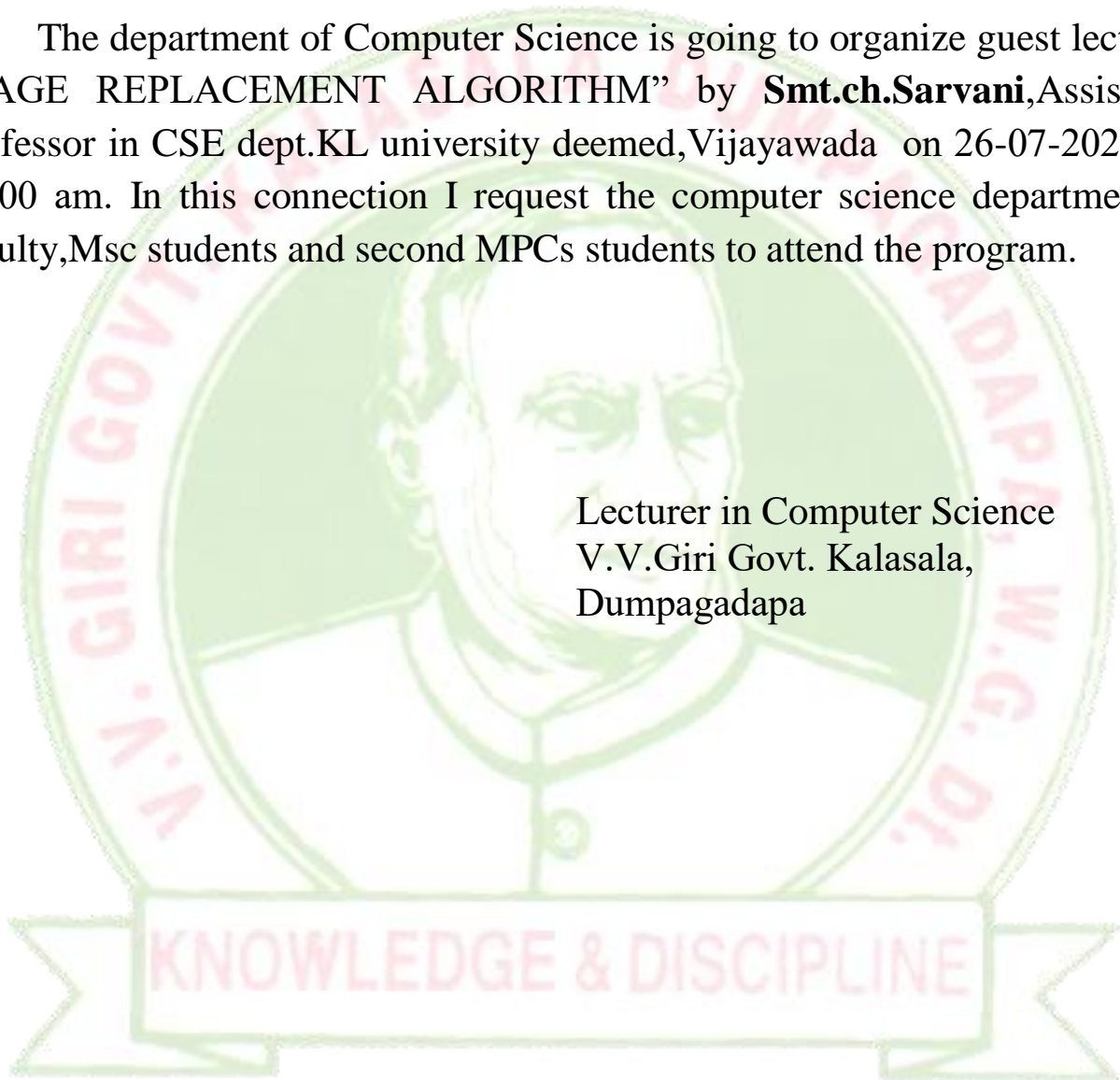
PHOTOS OF THE ACTIVITY
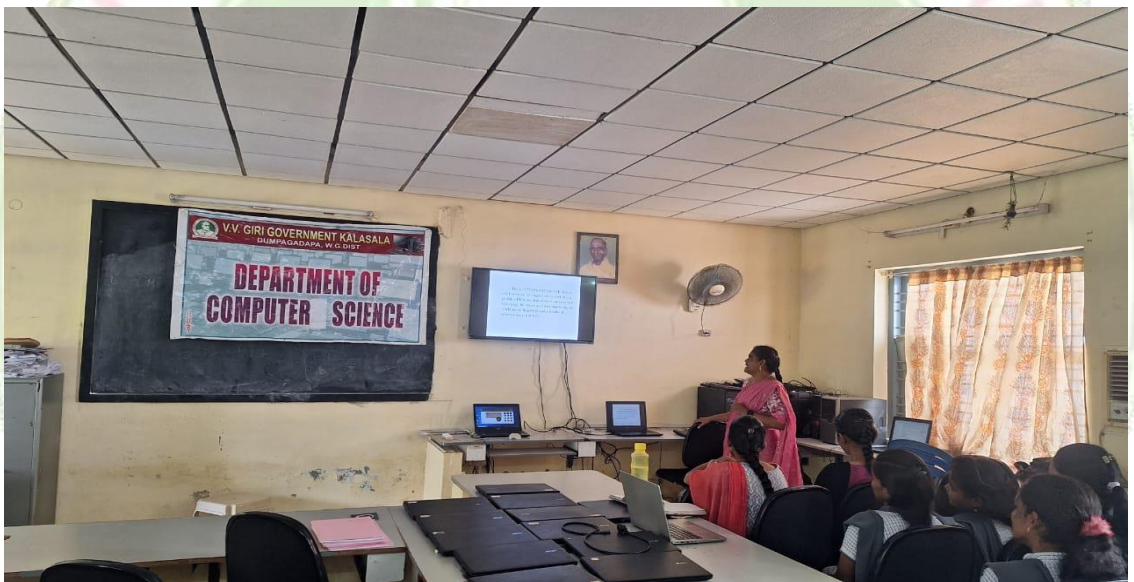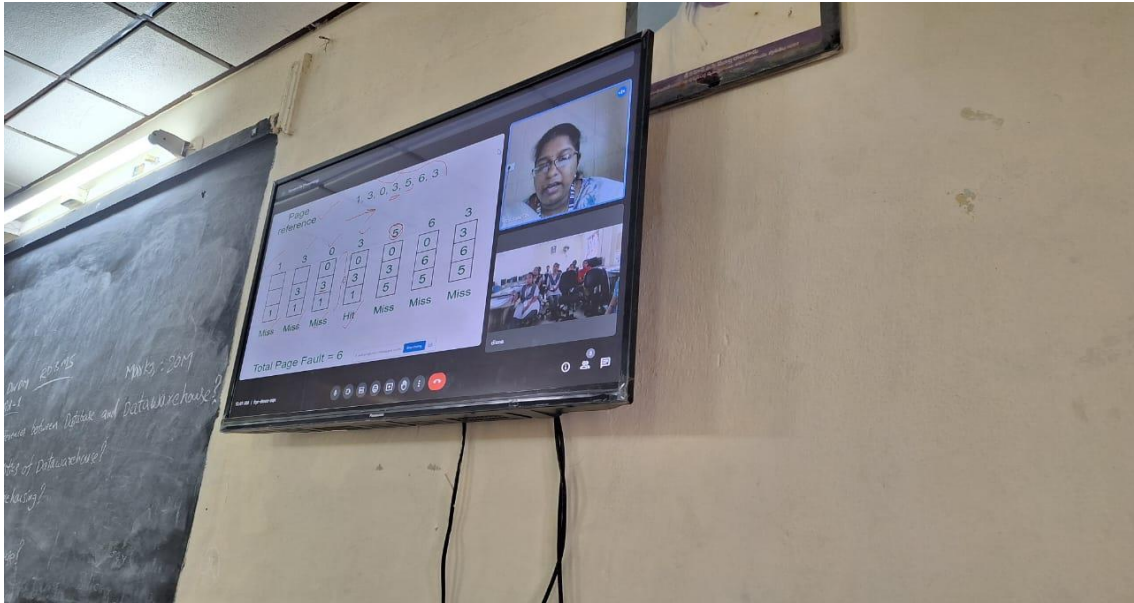
DETAILS OF THE ACTIVITY

Smt.ch.Sarvani,Assistant professor in CSE dept. KL university deemed,Vijayawada, has given guest lecture on the topic of "Page Replacement Algorithm" to II B.Sc students on 26.07.2023. She covered the following topics of the syllabus. This unit is a part of paper-IV of IV Semester Computer Science.

❖ In a Page replacement Algorithms:

In an operating system that uses paging for memory management, a page replacement algorithm is needed to decide which page needs to be replaced when new page comes in.

❖ First in First out(FIFO)

This is the simplest page replacement algorithm.In this algorithm, the operating system keeps track of all pages in the memory in a queue, the oldest page is in the front of the queue. When a page needs to be replaced page in the front of the queue is selected for removal.

❖ Optimal page replacement

In this algorithm, pages are replaced which would not be used for the longest duration of time in the future. **Example:**Consider the page references 7, 0, 1, 2, 0, 3, 0, 4, 2, 3, 0, 3, 2, with 4 page frame. Find number of page fault.

❖ Least recently used

In this algorithm page will be replaced which is least recently used. **Example:** Consider the page reference string 7, 0, 1, 2, 0, 3, 0, 4, 2, 3, 0, 3, 2 with 4 page frames. Find number of page faults.

• Since actual physical memory is much smaller than virtual memory, page faults happen.

• In case of page fault, Operating System might have to replace one of the existing pages with the newly needed page. Different page replacement algorithms suggest different ways to decide which page to replace.

• The target for all algorithms is to reduce the number of page faults.

SIGNATURES OF THE STUDENTS

S.No	Student Name	Class	Signature
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2			
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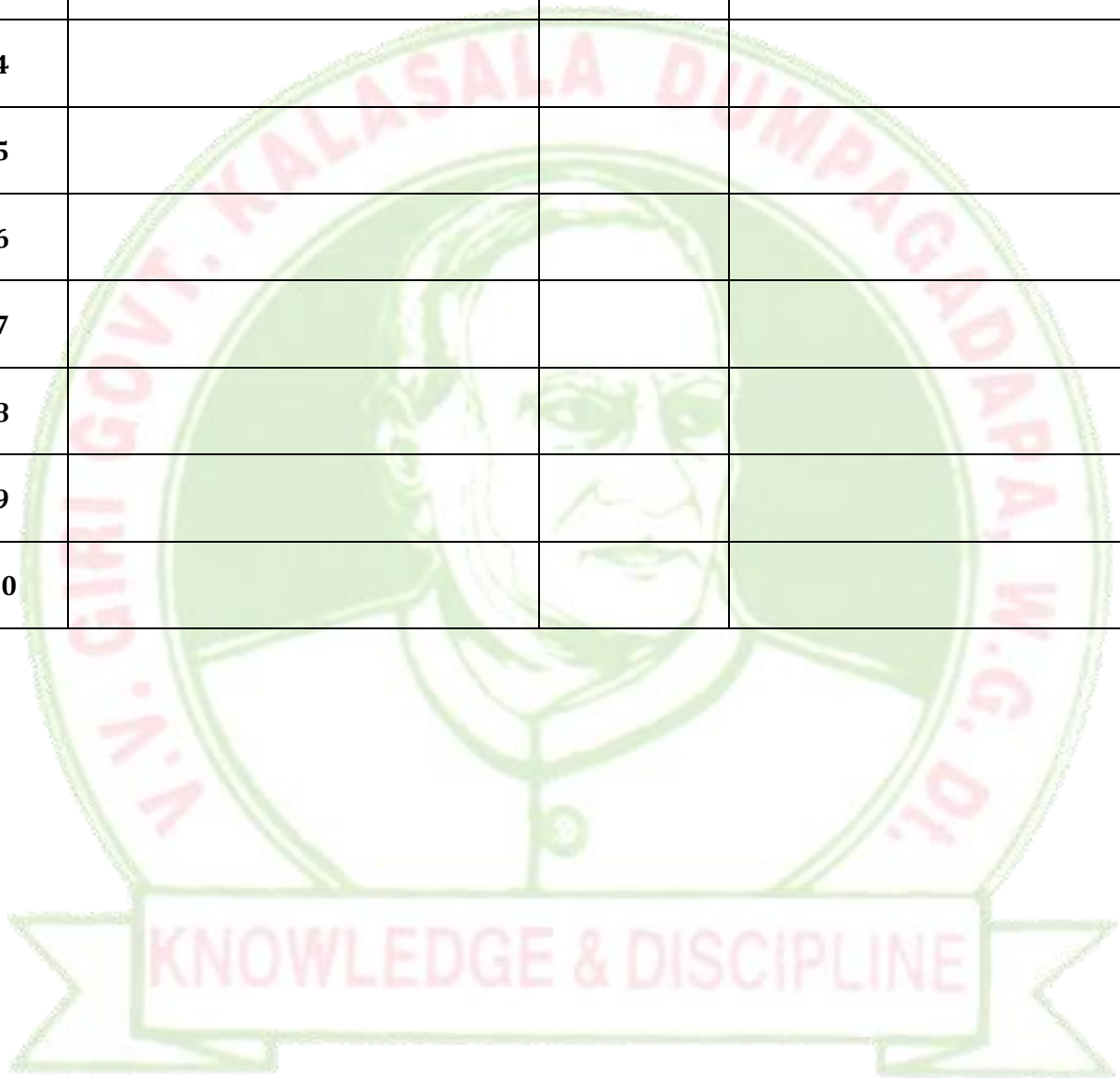
CONCLUSION OF THE ACTIVITY

Department of Computer Science Organized a guest lecture on "Page Replacement Algorithms" on 1st AUGUST, 2023. In this program, the resource person Smt Ch.Sarvani, Assistant professor in CSE dept.KL university deemed,Vijayawada, has given lecture on Operating Systems. She enlightened the students regarding the topics and computational exams. Finally with a good interaction between her and students with a shared queries and answers explained very well to the students.