

2.3.2. Teachers use ICT enabled tools for effective teaching-learning processes.
(15)



In SIESGST, the classrooms and labs are ICT enabled with projectors installed and the campus is enabled with high speed wifi connection. The faculty at SIESGST use various ICT enabled tools to enhance the quality of teaching-learning like-














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1. Google classroom is used to manage and post course related information- learning material, quizzes , lab submissions and evaluations, assignments, etc.

SE IT OS/UNIX LAB 2019-20
FH 2020 (BATCH 2018-2022)

Stream Classwork People Grades








Lecture Notes / PPTs/ Videos

 Deadlock Detection Algorithms	Posted Apr 21
 Videos on Dining Philosopher Problem	Edited Apr 27
 Video Lecture-DS Part 4	Posted Apr 17
 Video on Andrew File System	Edited Apr 16
 Video Lecture-DS Part 3	Posted Apr 15
 Video : Distributed system part 2	Edited Apr 15
 Video on Stateful vs Stateless service in Dis...	Edited Apr 14
 Video : Distributed system part 1  1	Edited Apr 13
 (Video Lecture) Chapter 4- Memory Manag...	Edited Apr 7
 Ebook- Operating System (Galvin, 6th e...  1	Edited Mar 30



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Experiments

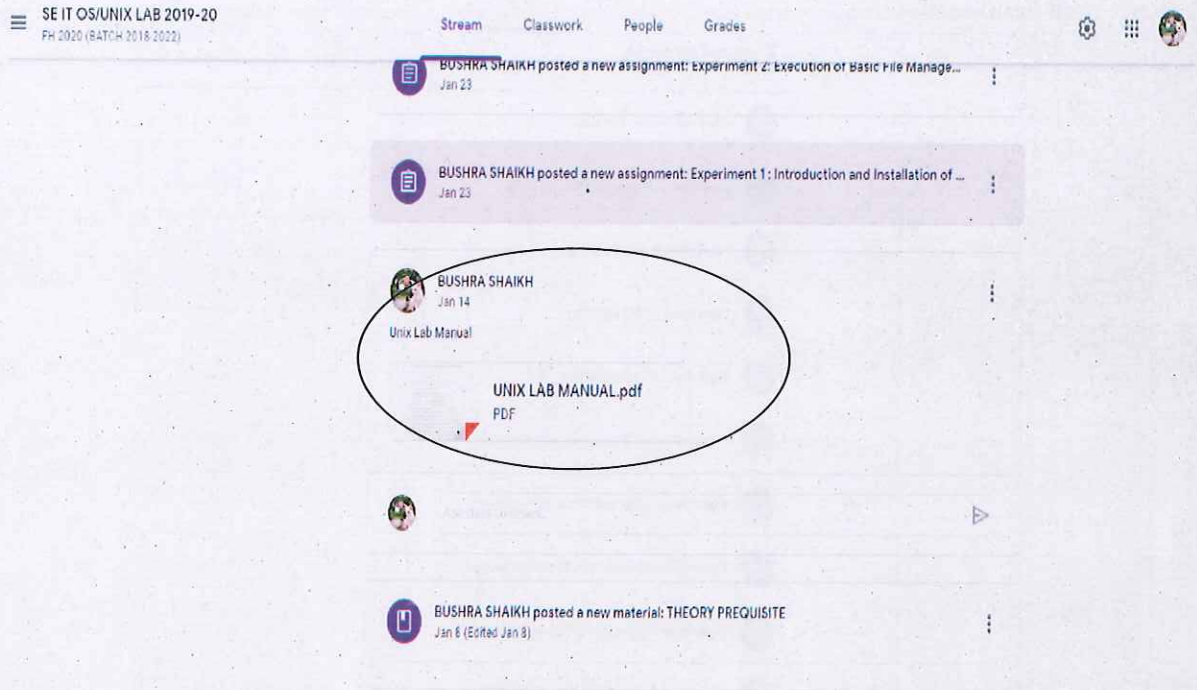
 Experiment 11: Mini Project	Edited Apr 20
 Experiment 10: grep and perl scripting	Due Mar 31
 Experiment 9: Awk Scripting	Due Mar 24, 4:59 PM
 Experiment 8: SED scripting	Due Mar 21
 Experiment 7: Shell scripting	Due Mar 20
 Experiment 6a & 6b: Environment variables...	Due Mar 19
 Experiment 5: User and Group Management...	Due Feb 14
 Experiment 4: Process and Memory Manage...	Due Feb 14
 Experiment 3: Execution of Networking Com...	Due Jan 31
 Experiment 2: Execution of Basic File Manag...	Due Jan 24, 11:59 PM

[View more](#)

2. Virtual labs are used to conduct labs through simulations.
3. Online drawing tools like concept maps, mind maps, are used to perform student centric activities.
4. The PPTs are enabled with animations and simulations to improve the effectiveness of the teaching- learning process.
5. The online learning environments are designed to train students in open problem-solving activity.
6. Media lab facility is used to create video lectures and upload in appropriate platforms for students to use as extra learning resources.


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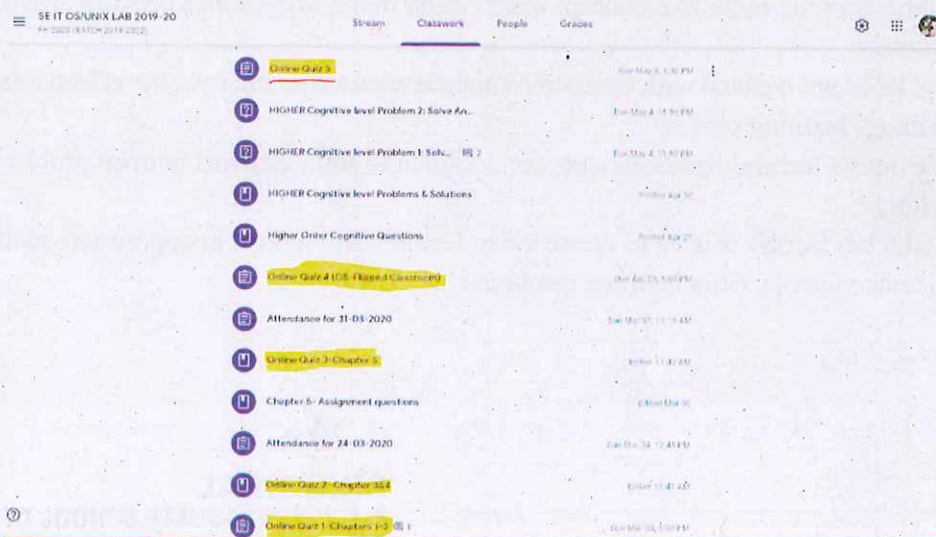
7. Lab manuals are mailed to students well in advance the experiment is performed.



The screenshot shows a Blackboard LMS interface for the course 'SE IT OS/UNIX LAB 2019-20'. The 'Stream' tab is active, displaying a list of posts. A post by BUSHRA SHAIKH, dated Jan 14, is circled in black. It contains a PDF file titled 'UNIX LAB MANUAL.pdf'. Other posts include assignments for 'Experiment 2: Execution of Basic File Manage...' and 'Experiment 1: Introduction and Installation of ...', and a 'THEORY PREREQUISITE' material.

8. Online quizzes and polls are regularly conducted to record the feedback of the students.

Quizzes:



The screenshot shows a Blackboard LMS interface for the course 'SE IT OS/UNIX LAB 2019-20'. The 'Classwork' tab is active, displaying a list of online quizzes. The quizzes are:

- Online Quiz 5 (Mar 10, 11:30 PM)
- HIGHER Cognitive level Problem 2; Solve An... (Mar 4, 11:51 PM)
- HIGHER Cognitive level Problem 1; Solv... (Mar 4, 11:50 PM)
- HIGHER Cognitive level Problems & Solutions (Mar 4, 11:50 PM)
- Higher Order Cognitive Questions (Mar 4, 11:47 PM)
- Online Quiz 4 (OS - Files & Directories) (Mar 3, 10:57 PM)
- Attendance for 31-03-2020 (Mar 31, 11:15 AM)
- Online Quiz 3; Chapter 3 (Mar 11, 11:42 AM)
- Chapter 5- Assignment questions (Mar 10, 11:42 AM)
- Attendance for 24-03-2020 (Mar 24, 11:42 AM)
- Online Quiz 2; Chapter 2 (Mar 11, 11:41 AM)
- Online Quiz 1; Chapters 1-3 (Mar 1, 11:41 AM)

Polls:

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Question Student answers

Return 1 part

All students

Sort by status

Turned in

Student	Turned in	Assigned
sawant aditi	41	28
gharani ankrishnan	1	40
anish arun	1	1
deshpande atharva	1	
Rajeev Bardi	1	
prathamesh chandrashekar	1	
Mahendra Choudhary	1	

Which of the following scheduling algorithms could result in starvation? a. First-come, first-served b. Shortest job first c. Round robin d. Priority

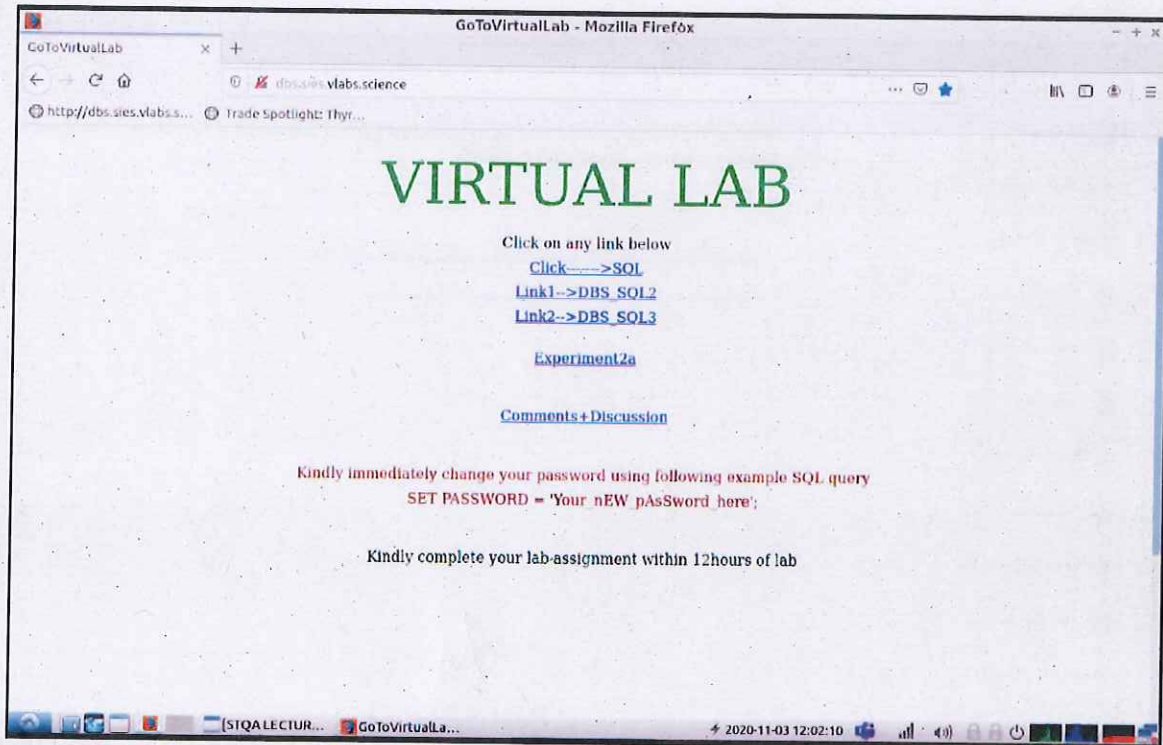
Shortest job first and priority-based scheduling algorithms could result in starvation

Shortest job first and Round robin scheduling algorithm could result in starvation



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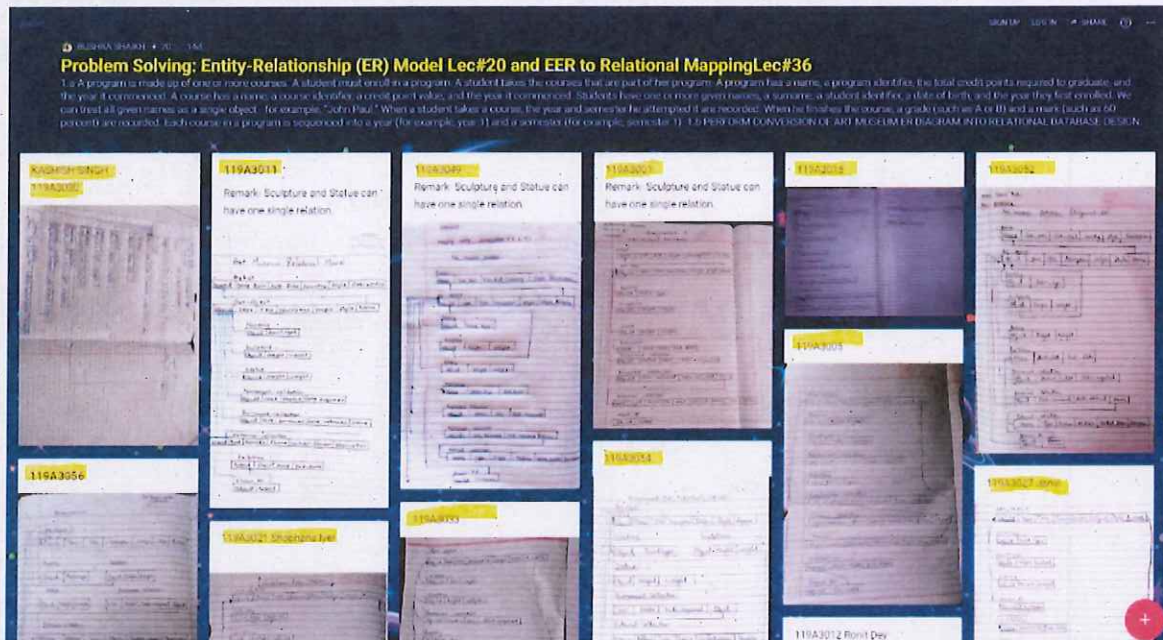
9. IIT Virtual lab(SQL Lab-Sem III) is used for creating multiple students accounts where faculty can check the individual practicals performed by students.




10. Online tool called Padlet Dashboard (DMS-Sem III) is used where faculty can monitor students uploading the individual tasks such as solving a problem (hand-written / hand-drawn) assigned during lecture. (<https://padlet.com/bushrask/Bookmarks>)



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11. The padlet is used among faculty to collaborate on certain topics, for example “Problems faced during online teaching-learning” where the problems faced during online teaching were posed by some faculty and solutions were suggested by others. (<https://padlet.com/SIESGST/3y7ffk16vi2bsfvx>)



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12. To teach mathematical subjects in online mode, teachers have used various online tools like- whiteboard in Microsoft teams, Jamboard in Google meet, etc.

Solution a_0 $\int uv = u v_1 - u' v_2 + u'' v_3 - u''' v_4 + \dots$

$a_0 = \frac{1}{2\pi} \int_0^{2\pi} f(x) dx$ $= \frac{1}{2\pi} \int_0^{2\pi} x^2 dx$ $= \frac{1}{2\pi} \left[\frac{x^3}{3} \right]_0^{2\pi}$ $= \frac{1}{2\pi} \cdot \frac{(2\pi)^3}{3}$ $= \frac{4\pi^2}{3}$	$a_n = \frac{1}{\pi} \int_0^{2\pi} f(x) \cos nx dx$ $= \frac{1}{\pi} \int_0^{2\pi} x^2 \cos nx dx$ $= \frac{1}{\pi} \left[x^2 \frac{\sin nx}{n} - 2x \left(-\frac{\cos nx}{n^2} \right) + 2 \left(-\frac{\sin nx}{n^3} \right) \right]_0^{2\pi}$ $= \frac{1}{\pi} \left[\frac{2x}{n^2} \cos nx \right]_0^{2\pi}$ $= \frac{1}{n^2\pi} \left[4\pi \cos 2n\pi - 0 \right]$ $= \frac{4\pi}{n^2\pi} = \frac{4}{n^2}$ <div style="border: 1px solid black; display: inline-block; padding: 2px; margin-top: 5px;">$a_n = \frac{4}{n^2}$</div> <div style="border: 1px solid black; display: inline-block; padding: 2px; margin-top: 5px;">$a_0 = \frac{4\pi^2}{3}$</div>
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$\because \sin 2\pi = 0$
 $\sin 0 = 0$
 $\cos 2n\pi = 1$
 $\cos 0 = 1$



Pratibha Sharma

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