Dear all,

End Semester Examination of Operating System Lab comprises of Oral and Practical evaluation. You can prepare and choose one (i.e., one amongst 1a, 1b or 1c and one amongst 2a, 2b or 2c) of the following strategy for your ESE evaluation.

For example: You may choose and prepare for 1a (for Practical evaluation) and 2b (for Oral evaluation).

1. For Practical:
   a. Prepare to implement any (randomly assigned) experiment from the below list.

Sr. No.	Experiment
1	Non-Preemptive SJF Scheduling of processes
2	Preemptive SJF / SRTF/ SRTN Scheduling of processes
3	Round Robin Scheduling of processes
4	Producer Consumer solution using locks
5	Banker's algorithm for deadlock avoidance
6	Safety Check for deadlock detection
7	First Fit and Best Fit memory allocation strategies
8	First Fit and Next Fit memory allocation strategies
9	Best Fit and Worst Fit memory allocation strategies
10	FIFO and LRU page replacement
11	FIFO and Optimal page replacement
12	Contiguous, Linked and Indexed file allocation
13	FCFS and SSTF disk scheduling
14	SSTF and SCAN disk scheduling

   NOTE: If you choose 1a, you will not be allowed to choose any specific program from the above list. Hence, you need to prepare for the entire list stated above.

   b. Prepare for any one module (except module 1) and implement any strategy related to the module as per the problem statement given by the examiner.
   For example: If you choose 1b with module 4 (Memory Management), then examiner can you any task related to module 4, such as Simulate address translation mechanism of paging.
   NOTE: Task / Problem given by the examiner will not be restricted to the list given in 1a. Hence, by selecting module 4 in above example, you need to prepare for all techniques of the module and not only experiment listed 7 to 11 in table of 1a (which belong to module 4)

   c. Preparing for presentation cum demonstration on Mini Project of OS or any one PBL experiment. You will be asked to perform certain modifications in your Mini project/ PBL experiment. Evaluation will be based on your contribution and learning/ inferences drawn from the Mini Project/ PBL experiment demonstrated and correct implementation of the modification asked.

2. For Oral:
   a. Regular Question Answering wherein questions are asked by examiners.
   b. Debate on any (randomly assigned) topic from below list:

Sr. No.	Debate Topic
1	Process Management of Windows V/s Linux
2	Memory Management of Mac V/s Linux
3	FAT V/s NTFS

   NOTE: Topic and Group will be assigned by the examiner. If you choose 2b, then prepare for all topics listed above (both for and against)

   c. Poster Presentation: Prepare a poster on any one of the recent developments in the field of Operating System. You should carry hard copy of the related research work (base paper / white paper/ report etc… of year 2019 or later) along with printout of the poster. Template of the poster is shared on Teams group of subject OS.