

SR#	STUDENT NAME	PRESENTATION TOPIC OS/CAAL		REMARKS
1	Siraj Dujana Muhammad Iqbal Shagufta	Virtual Memory Demand Paging, Copy-on-Write, Page Replacement, Allocation of Frames, Thrashing	ARM Processor Introduction to Array and String Application of array Two-dimensional array	Monday 22/4 CAAL
				Wednesday 08/5 OS
2	Hanseeka Abdul Qadeer Odhano Kashish Mandhan	Threads & Concurrency Multicore Programming, Multithreading Models, Thread Libraries, Implicit Threading, Threading Issues, Operating-System Examples	Processor Organization Register Organization Instruction Cycle Instruction Pipelining	Monday 29/4 CAAL
				Wednesday 01/5 OS
3	Mashooque Ali Pranjal Mandhan Talha Waheed	Memory Management Contiguous Memory Allocation, Paging, Structure of the Page Table, Swapping.	Direction Flag String functions Moving String Storing String Load String Scan String Compare String	Thursday 2/5 CAA
				Wednesday 08/5 OS
4	Muhammad Aaqib Adnan Ali	Operating-System Design Operating-System Structure, Building and Booting API	CISC The Logic, Shift and Rotate instructions in AL AND, OR & XOR instructions NOT instruction in AL	Monday 29/4 CAAL
	Shivani Dawani	Kernel Types & Architecture Kernel Data Structures	RAID & RISC	Wednesday 08/5 OS
	Muhammad Zain Nisha Novlani Muhammad Mubeen	Synchronization Tools The Critical-Section Problem, Peterson's Solution, Hardware Support for Synchronization, Mutex Locks, Semaphores, Monitors.	PCI in CA TEST instruction in AL Shift Instruction(Left & Right) Rotate Instructions	Monday 22/4 CAAL
				Tuesday 23/4 OS
5				Thursday 2/5 CAA
				Wednesday 01/5 OS

6	Manthar Ali Prena Mandhan Abdul Qudoos	CPU Scheduling Real-Time CPU Scheduling, Operating-System Examples, Algorithm Evaluation	Introduction to BIOS and DOS routines File Processing and management in AL	Monday 29/04 CAAL Tuesday 7/5 OS
7	Noor Mustafa Aman Raj Mehak	CPU Scheduling Scheduling Criteria, Scheduling Algorithms, Thread Scheduling, Multi-Processor Scheduling,	The Application of STACK Push & Pop operations Understand the Procedure CALL & RET statements Examples of Stack & Procedures	Thursday 2/5 CAA Tuesday 7/5 OS
8	Malik Qadeer Faisal Raheem Muhammad Younis Marvi Baloch	Deadlocks System Model, Deadlock in Multithreaded Applications, Deadlock Characterization, Methods for Handling Deadlocks, Deadlock Prevention, Deadlock Avoidance, Deadlock Detection, Recovery from Deadlock	An example of JUMP Conditional & Unconditional JUMP The JMP instruction Branching and Looping structure Introduction to STACK application	Monday 22/4 CAAL Wednesday 01/5 OS
9	Sagar Chhabriya	Processes Process Concept, Process Scheduling, Operations on Processes, Inter process Communication, IPC in Shared- Memory Systems, IPC in Message-Passing Systems, Examples of IPC Systems, Communication in Client– Server Systems	The Arithmetic and Logic Unit Integer Representation Integer Arithmetic Floating point representation Floating point arithmetic	Monday 22/4 CAAL Tuesday 30/4 OS

Note: Instructions.

- Dress Code Important
- Slides of Each group should not exceed 20
- Group time will be 20 Minutes
- Divide your work and then separately make slides accordingly and in last merge all and present
- There will be a cross questioning
- The CAAL topics that includes the AL topics a group must have to perform task or present LAB task too of topic area.
- Attendance is mandatory