Instructions for Operating Systems Report

General Description

1. Each student will write around one page in handwriting about the subject assigned to him/her under the video assigned to the team
2. Each student should be able to answer questions related to his/her responsibility in the report. Each member will be individually assessed based on the declared responsibility.

Practical Work

1. From the Videos under the title "Introduction to Operating Systems" in the link below
   https://www.youtube.com/@introductiontooperatingsys8608/videos
2. Watch fully the video/Lecture assigned to your group
3. Discuss with your team the general concepts and understanding
4. Write in handwriting your report.
5. Submit the paper in room 313 and be ready to answer questions.

Lecture Name	Team List	Subjects
W2 L2 Virtual Memory	Rawaz Aziz Asad Rawan Ali Abdulhadi Mahmood Dadmand Mohammed Mustafa	Virtual memory Process Page Tables Demand Paging
W2 L6 PC Booting	Hozan Saadi Mamand Yara Abdulkhaliq Jabbar Aziz Lava Ahmed Mohammed	BIOS MBR BootLoader
W2 L1 Memory Management Introduction	Aram Idrees Rashid Fenik Hussin Jumaa Solav Rebwar Hamo	Single Contigous Model Partition model Fragmentation
W1 L4 - Sharing the CPU	Kaywan Faruq Kamal Ahmed Muayad Maghdid Fahid Ihsan Sdeeq	Sharing the CPU When OS supports Multitasking Multiprocessors
W2 L3 More on Virtual Memory	Isra Khalid Mustafa Aven Sabry Hassan Rashed Basher Muhammed Rashed	Virtual Address Space Addressing the Space 2 Level Page Translation
W2 L4 Segmentation	Malek Faisal Jawhar Bassam Raed Sahde Aya Soran Mohammed	Segmentation (Logical to Linear address) Segment Descriptor
W4 L1 Interrupts	Zakarya Dara Abdulkhaleq Abdulbari Hawkar Smail Hedi Abdulrazzaq Abdullah	OS & Events Event Types Interrupts in Legacy CPUs
W5 L3 Multi-Processor Scheduling	Asaad Wajd Asaad Yaran Dlman Ebrahim	
W6 L1 Inter Process Communication	Amanj Jalal Rashed Meer Hoger Shakir Blnd Jamel Sabri	Virtual Memeory View Shared memeory in Linux Message Passing
W5 L2 Priority based scheduling algorithms	Danyar Abdulqadir Abdullah Chener Farhad Othman	
W7 L2 Deadlocks	Ahmed Fouad Mamand Sadiq Azad Sadiq Awara Hemn Hasan	Introduction Resource Allocation Graph Conditions for Resource Deadlocks
W8 L2 Information Flow Policies	Aesan Azad Mikhael Milad Mazin Khdir Ary Muhsin Mohammed	Information Flow Policies Examples Mandatory Access Control
W6 L7 Semaphores	Ahmed Sarhang Mohammed Rebar Shamal Mamand Mohammad Karkhi Mohammad	Producer Consumer Problem Example Semaphores
W7 L4 Threads (Light Weight Processes) Part 1	Rozhin Muhammad Mustafa Sahar Fakher Muhammed Sarwat Shukri Hamo	Example Threads Execution Contentext
W7 L5 Threads (Light Weight Processes) Part 2	Zainab Musher Saeed Zhewar Ali Mustafa Raman Hamadameen Omer Rebin Frsat Ghazali	Who manages Threads-User Threads Kernel Threads Threading Issus Typical Usage of threads