Sophisticated Instrument List

Sr.No	Server Name	Configurations	Usage
1	IBM Server X3100 M4	Processor = Intel® Xeon(R) CPU E3-1220 V2 @ 3.10GHz, RAM = 32GB, HDD = 500GB SATA HDD, Keyboard = IBM, Mouse = IBM,	Window Deployment Server (WDS),Data Storage
2	NVidia GPU TITAN X	Processor = Intel(R) Core(TM) i7-8700K CPU @ 3.70GHz RAM = 32 GB HDD = 2 TB Graphics Card = 1x NVIDIA GP 100 Accelerator card Monitor = LG 22mp48hq LED Keyboard = Logitech USB Mouse = Logitech USB	Image Processing, python Programing ,machine learning Application , Data mining
3	Super Computer PARAM SAVAK	Processor = 2 x Intel Xeon Scalable processors with minimum 16 Cores each with minimum 2.2 GHz Clock Speed RAM = 96 GB ECC DDR4 2400 MHz RAM HDD = 4*4 TB SATA – 3.5" 7200 RPM HDD Graphics Card = 1x NVIDIA GP 100 Accelerator card Monitor = Benq GW2480 LED Keyboard = Logitech USB Mouse = Logitech USB	High performance computing (HPC) Application- Bio-informatics: mpiBLAST, Molecular Dynamics: GROMACS, Materials Science: Quantum Espresso, Quantum Chemistry: NWChem, ABINIT, Atmospheric and Ocean Modeling: WRF, MOM, CFD: Open FOAM
4	•	2 x Intel(R) Xeon(R) Gold 5218 CPU @ 2.30GHz Processors, 4x32GB 2933MHz DDR4 RAM 5x3.5" 14TB,7.2K RPM,SATA 6Gb/s,256M,512e HeliumHFR0HS,2x480GB,SATA 6GB/s, TLC 2.5"7mm,1DWPD NVIDIA Quadro RTX 5000 16GB GDDR6	Deep learning, Data mining , Image Processing, python Programing ,machine learning
5		OPS PC-15000 Processor = intel i5-10210U, RAM = 8GB DDR4 , HDD = 256 GB SSD,	Software group project presentation, expert lecture and online meetings, AWS academy hands-on lab, White board usage for subject lab, Lecture notes generate and saved

IBM Server X3100 M4



Configuration	Usage
Processor = Intel® Xeon(R) CPU E3-1220 V2 @	Window Deployment Server (WDS),Data Storage
3.10GHz,	
RAM = 32GB ,	
HDD = 500GB SATA HDD,	
Keyboard = IBM,	
Mouse = IBM,	

NVidia GPU TITAN X



Configuration	Usage
Processor = Intel(R) Core(TM) i7-8700K CPU @	Image Processing, python Programing ,machine
3.70GHz	learning Application , Data mining
RAM = 32 GB	
HDD = 2 TB	
Graphics Card = 1x NVIDIA GP 100 Accelerator	
card	
Monitor = LG 22mp48hq LED	
Keyboard = Logitech USB	
Mouse = Logitech USB	

Super Computer PARAM SAVAK



Configuration	Usage
Processor = 2 x Intel Xeon Scalable processors with minimum 16 Cores each with minimum 2.2 GHz Clock Speed RAM = 96 GB ECC DDR4 2400 MHz RAM HDD = 4*4 TB SATA – 3.5" 7200 RPM HDD Graphics Card = 1x NVIDIA GP 100 Accelerator card Monitor = Benq GW2480 LED Keyboard = Logitech USB Mouse = Logitech USB	High performance computing (HPC) Application- Bio-informatics: mpiBLAST, Molecular Dynamics: GROMACS, Materials Science: Quantum Espresso, Quantum Chemistry: NWChem, ABINIT, Atmospheric and Ocean Modeling: WRF, MOM, CFD: Open FOAM

Supermicro 4U Server



Configuration	Usage
2 x Intel(R) Xeon(R) Gold 5218 CPU @ 2.30GHz	Deep learning, Data mining, Image Processing,
Processors, 4x32GB 2933MHz DDR4 RAM	python Programing ,machine learning
5x3.5" 14TB,7.2K RPM,SATA 6Gb/s,256M,512e	
HeliumHFRoHS,2x480GB,SATA 6GB/s, TLC	
2.5"7mm,1DWPD	
NVIDIA Quadro RTX 5000 16GB GDDR6	

View Sonic Digital Board



Configuration	Usage
OPS PC-15000	Software group project presentation, expert
Processor = intel i5-10210U,	lecture and online meetings, AWS academy hands-
RAM = 8GB DDR4,	on lab, White board usage for subject lab, Lecture
HDD = 256 GB SSD,	notes generate and saved