
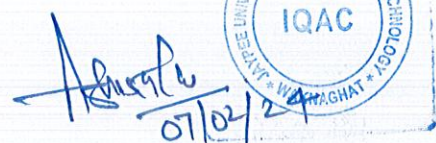


4.1.1 Major Equipments in the Laboratories 2022-23

Department of Civil Engineering 2022-23

S. No.	Name of the Lab	Major equipment in the laboratories	Unit/s
1	Surveying lab/Structural Mechanics Lab	Total Station SET-610	1
		Total Station Trimble	1
		Transit venire theodolite	10
		Auto Level	10
		Tilting Level	6
		Dumpy level	10
		Elastic Beam and Continuous beam Apparatus	1
		Three Hinged Arch Apparatus	1
		Two Hinged Arch Apparatus	1
		Laser Distance Meter	1
		Air Flow Meter	1
2	Highway Engineering Lab	Los angles Abrasion testing machine	1
		Marshall Test Apparatus (Digital)	1
		CBR Apparatus	2
		Ductility testing machine	1
		Merlin Apparatus	1
		Core Cutter Apparatus for Pavement	1
3	Concrete Lab	Universal Testing Machine	1
		Compression Testing Machine capacity – 200ton Digital	1
		Compression Testing Machine	1
		Hobart Mixer MADE IN U.S.A./GERMANY	1
		Flexural Testing Machine capacity – 20ton	1
		Concrete Flow Table	1
		Concrete Test Hammer	1
		Ultrasonic Pulse Velocity Tester	1
		Cover Meter / Rebar	1
		Half Cell Potential Tester	1
		Concrete Test Hammer	2
4	Geotechnical Lab	Triaxial Shear Test Apparatus	1
		Direct shear apparatus (Digital)	1
		Direct shear apparatus	1
		Consolidation apparatus	2
		DCPT	1
		Standard penetration test Apparatus	1
		Swell Test Apparatus	1
		Hydraulic Sample Extruder	1
		Heating Oven	2


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		Data logger	1
		Pull Out Instruments for Soil Nails	1
		Hydraulic Jack With Load Cell(35 ton)	1
		Incinerator	1
		Pore Pressure Assembly	1
5	Fluid Mechanics Lab	Open Channel Flume	1
		Bernoulli's Theorem Apparatus	2
		Impact of Jet Apparatus	1
		Orifice meter Test Apparatus	1
		Venturimeter Test Apparatus	1
		Pipe friction Test Apparatus	1
		Apparatus for Minor losses in Pipe fittings	1
6	Chemistry and Environmental Engineering Lab	Spectrophotometer	1
		COD Reactor	1
		Multi parameter Apparatus(DO/BOD)	1
		Repairable Dust Sampler	1
		Digestion Apparatus	1
		Biodegradation of waste settlement analyzer	1
		Muffle Furnace	1
		Double Distillation Unit	1
		Autoclave	1
		BOD Incubator	1
		Laboratory stirrer	1
		Gas Sensor for CO2 & CH4	1
		Hydraulic Jack With Load Cell(5 ton)	1
		Earth Pressure Cell	1
		Depth Water Sampler	1
7	Civil Software lab	Autodesk Educational Suite 2022 (Unlimited)	1
		STAAD.PRO Connect Edition (Unlimited)	1
		GEO-5 (30 Users)	1
		ESTIMATOR 2.0 (unlimited)	1
		PRIMAVERA CONTRACTOR (05 Users)	1
		ANSYS Academic Advanced v11 (10 Users)	1
		PLAXIS 2D SUITE Standalone (Single User)	1
		Nikon D5600 DSLR Camera	1
		Bentley Civil Bundle of Perpetual Network Based (Unlimited)	1
8	Fluvial Hydraulics & Research Lab	Open Channel Flume	1
		Acoustic Doppler Velocimeter Nortek USA	1
		Conductivity meter	1
		Mixer Grinder	1

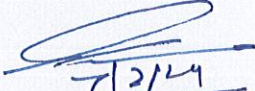



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		Digital temperature Meter	1
		Kjeltron Apparatus	1
		Incubator Inner 5.5	1
		Digital TDS Meter	1
		Digital Weighing Balance	1
		Digital Tuibidity Meter	1
		Digital Conductivity Meter	1
		Digital PH Meter	1
		Lenovo P500 Workstation with 64 GB RAM ,4 GB NVIDIA QUADRO K4200 Graphics Card, 2 TB Storage	2
9	Workshop Practices Lab	Lathe Machine	1
		Milling Machine	1
		Drilling Machine	1
		Welding Machine	1
10	Engineering Graphics Lab	Drawing table	35
		Total	163

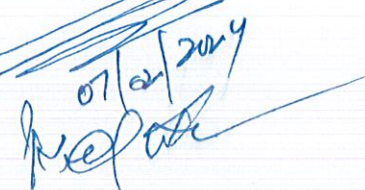



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 Niraj Singh Panihar
 (Lab Coordinator, CED)

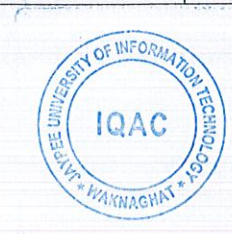

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Department of Biotechnology & Bioinformatics 2022-23

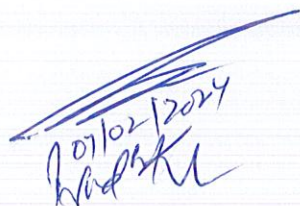
S. No.	Name of the Lab	Major equipment in the laboratories	Unit/s
1	Human Genomics Lab	Swing Centrifuge 10000rpm	1
		Thermal Cycler ABS Veriti with Work Station.	1
		Analytical Balance, Citizen. Macflow Engineering.	2
		Centrifuge, Macflow Engineering. Make- Eppendorf	1
		Cyclomixer, Grover Enterprises, Make- Remi	1
		Cyclomixer, International Scientific Instrument. Model- CM-101	1
		CO ₂ incubator, Eppendorf Ltd. Model- 170S	1
		Deep Freezer (-20°C), Blue Star Pvt.	1
		Minitrans Blot Cell with Sheet, Maximum Gel Size- 10 X 7.5 cm, Macflow Engineering	1
		Serological Water Bath, Micro-Scientific Works Pvt. Ltd. MSW-273 SAD. Model- SWBD-18 (SAD). Size- 300 X 300 X 175. Capacity- 18 Ltrs	1
		Magnetic stirrer with hot plate, Research Aid Instruments. Model- MS-Z, MAC/MSW-313. Capacity- 2 Ltr	1
		Gel Rocker, Research Aid, Palampur. Model- MSW-309, Sea Saw Motion (30 X 30 cm)	1
		Air Filtration Unit, LabRex Biologicals Pvt. Ltd.	1
		Nicon Binocular Inverted Research Microscope, Nicon Corporation. Model- TS-100 LED with accessories	1
Biological Safety Cabinet, Telstar Tech-SLU. Model- Bio II Advance- 4	1		
2	PTC Lab	Analytical Balance, Citizen. Model- CTG-603	1
		Analytical Balance, Mahamaya Promoters. Capacity- 1g-5 kg	1
		Laminar Air Flow, S.M. International. Size- 3X2X2 ft. working table size	1
		Laminar Air Flow, Regeneration Technology, Chandigarh. Model- 1590B-48-24-24	1
		pH Meter Benchtop, Labrex Biologicals (Eutech)	1
		Refrigerator Samsung 665 Ltr. Solan radio Service Solan Model: RT65K7085BS	1
3	Proteomics Lab	GE Protein Purification system biorad	1
		Electrophoresis system(2D) biorad	1
		UV -Visible Spectrophotometer thermo	1
		Swing Centrifuge 10000rpm tarson	1
		Electrophoresis system biorad	1
		2D Electrophoresis system	1
		Refrigerated Centrifuge, Eppendorf India Ltd.	1

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		Conductivity meter, Bash Chem Agencies	1
		Lp Logic System Bio-Rad	1
		Water Bath, GFL. Made- Germany. Model- GFL- 109850	1
		Magnetic stirrer with hot plate, Research Aid Instruments. Model- MS-Z, MAC/MSW-313. Capacity- 2 Ltr	1
		Gel Rocker, Macflow Engineering	1
		pH meter, Macflow Engineering (Make- Eutech)	1
		Miniprotein tetra cell (1-D), Macflow Engineering	1
4	Equipment Room-1	Centrifuge, International Scientific Instrument Co. Make- Remi. Model- C-85418. Capacity- 18 ml	2
		Centrifuge, Remi Company. Model- RM-1242 Remi 2.4 X 1.5 ml, angle head	3
		Centrifuge, Remi Company. Model- R-24 Remi Revolt-Hls	1
		Centrifuge, Remi Company. Model- R-244 A Remi 8 X 15 ml	1
		Gel Dryer, Bio-Rad, Model- 503, 220/240 V	1
		Shaker with incubator. AdoltKuhneR. LSW s/n3900/29 (Rotary shaker, universal plates, silt & clamps)	1
		Martin Christ Lyophilizer Reference No. 2006/90228	1
		Oven, Grover Enterprises	1
		Oven, Macflow Engineering, Size- 650 X 450 X 450 cm	1
		Water Bath, Macflow Eng.	1
		Serological Water Bath, Micro-Scientific Works Pvt. Ltd. MSW-273 SAD. Model- SWBD-18 (SAD). Size- 300 X 300 X 175. Capacity- 18 Ltrs	3
		Centrifuge Refrigerator Eltek	2
		LyophizerMacflow	1
		Peristaltic Pump, Macflow Engineering	1
		Vaccum Pump, Macflow Engineering	1
		Vaccum Pump, Macflow Engineering. Make- Millipore. Catalogue No.- WP6122050	1
5	Equipment Room-2	ATOMIC ABSORPTION SPECTROSCOPY PERKIN ELMER	1
		Sonicator, Sonics Pvt. Ltd.	1
		Gas Chromatography, Agilent Technology India Pvt. Ltd.	1
6	UG-1 Lab	Stereo Microscope	1
		Deep freezer -20 cell frost	1
		Analytical Balance/Digital Balance	6
		Cyclomixer, Grover Enterprises, Make- Remi	1
		Colony Counter, Macflow Engineering	1
		Gel DOC, Bio-Rad Laboratories (consist of Gel DOC, PCR and LP System)	1
		PCR- BioRad	1

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		Laminar Air Flow, S.M. International. Size- 3X2X2 ft. working table size	1
		Hot Plate, Labrex Biological	1
		Laminar Air Flow, S.M. International. Size- 3X2X2 ft. working table size	1
		Refrigerator, L.G.Electronics Pvt. Ltd. Capacity- 350 Ltr. Model- 365YMQG4	1
		Microwave, United Agencies	1
		Water Bath, Labrex Biologicals (with temperature controller)	1
		Microscope Monocolour, Olympus	16
		Microscope Binocolour, Olympus. Model- CH20I	2
		Trinocular Research Microscope, Bash Chemo Agen. Model- CH 20iTR	4
		Microscope, Research Aid, Palampur, CH20i. Make- Olympus	5
		Magnetic stirrer with hot plate, Research Aid Instruments. Model- MS-Z, MAC/MSW-313. Capacity- 2 Ltr	4
		U.V. Transilluminator, Mahamaya Pro. Model- 107171	1
		Spectrophotometer - Colorimeter	2
		Digital Weighing Balance, Research Aid, Palampur. 1043 0203 Precision Balance CG-L Senes (G-203, Citizen)	1
		U.V. Spectrophotometer, Model- Evolution-201, Computer Control, Double Beam with simple and ref. cuvette. Make- Thermo Scientific	1
		Spectrophotometer (U.V. Visible), Elico Ltd. Model- SL 159	1
7	UG-2 Lab	BOD Incubator	1
		Thermal Cycler	1
		Deep Freezer (-20°C), New Brunswick	1
		Spray Drier, Lab Ultima. Model- LU 222	1
		Refrigerator, L.G.Electronics Pvt. Ltd. Capacity- 350 Ltr. Model- 365YMQG4	1
		Tissue Homogenizer, Bash Chemo Agencies.	2
		Spectrophotometer (U.V. Visible), Elico Ltd. Model- SL 159	1
		Spectrophotometer (U.V. Visible) double beam, Elico Ltd. Model- SL 210	1
8	Microbiology Lab	Refrigerator single door	1
		Freeze double door	1
		Mini centrifuge 10000rpm, Tarson	1
		B.O.D Incubator, Grover Enterprises, Delhi (Hicon)	1
		Centrifuge, Grover Enterprises Simple. Make- Remi	1
		CO ₂ incubator, New Brunswick Scientific	1
		Hot Plate, Labrex Biological	1
		Laminar Air Flow	3

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		Shaker, SciezenicsBioZech. Model- Orbitex- LEX & LE-TTCD	2
9	Fermentation Lab	Chiller for Fermenter	2
		Fermenter, Bio-Age	1
		Fermenter, New Brunswick Scientific Co. Inc.	1
		Refrigerator, L.G.Electronics Pvt. Ltd. Capacity- 350 Ltr	1
10	Environmental Biology Lab	Micro plate reader, Bio-Rad. Model- 680	1
		pH meter, Macflow Engineering (Make- banglore Genie)	2
		Peristaltic Pump, Bash Chemo Agencies, Make- Electrolab. Model- PP50V	1
		Refrigerator single door LG	1
		Incubator with Shaker thermo	1
		Double door freeze	1
		Digital incubator with shaker RT	1
		Refrigerated Universal Centrifuge, International Sceintific& Services, Solan. Make- Laby/T-60, Speed- 16000 rpm	1
		Thermal Cycler, International Sceintific& Services, Solan	1
11	UG-3 Lab (Food Tech.)	Gel rocker	1
		UV-Transilluminator	1
		Agarose electrophoresis unit	1
		Serological Water bath	1
		DECODE SYS DGGE+Printer+ PC+ Thermal cycler	1
		SDS PAGE assembly biorad	1
		pH controller zenith	1
		Digital incubator with shaker RT	1
		Vortex Mixer/Cyclomixer	3
		Sigma Centrifuge, Sigma Laboratories Pvt. Ltd.	1
		Laminar Air Flow	1
		Double Door Freezer, United Agencies, Delhi. Model No.- FUG- 1000	2
		Magnetic stirrer without hot plate, Bash Chemo Agency (Elteck). Capacity- 500 ml	1
		pH meter, Labrex Biologicals (LED Display-DB-1004), Decibel	2
Digital Weighing Balance, Labrex Biologicals	2		
12	High End Instrumentation Facility Lab	GC SCION 456	1
		Three gas cylinder(N2,H2 AND ZERO AIR) – Outside of Lab	1
		Genetic analyzer	1
		PDS-100/HE SYSTEM with LAF & Vacuum pump	1
		Freeze Videocon table top	1
		Research Microscope(fluorescence)Olympus	1
		HPLC, PDA autopurification system (Waters)	1

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		Refrigerator, L.G.Electronics Pvt. Ltd. Capacity- 350 Ltr. Model-365YMQG4	1
		Microscope, Research Aid, Palampur, MSZ-TR, Magnus zoom stereo trinocular (LED) Olympus/Magnus	1
		Swing Centrifuge-Mini (Benchtop/BT-Mini 10 K + speed 10,000 rpm. International Scientific & Services, Solan	1
		Ultrasonicator, International Scientific & Services, Solan. Citizen/CU135, Tank- 5 Ltrs (240 X 140 X 100)	1
		Compact LC-MS System and Nano-Advance UHPLC, Bruker	1
13	PG Lab	Oven, International Scientific	1
		Conductivity Meter	1
		Viscometer	1
		Water bath with Digital Temp.	1
		Serological Water Bath, Micro-Scientific Works Pvt. Ltd. MSW-273 SAD. Model- SWBD-18 (SAD). Size- 300 X 300 X 175. Capacity- 18 Ltrs	1
		Magnetic stirrer with hot plate, Model- MS-Z, MAC/MSW-313. Capacity- 2 Ltr	1
		U.V. Transilluminator, B.T.K. Bioscience	1
		Analytical Balance, Citizen. International Scientific. Model-CG-203	1
		Digital Weighing Balance, Research Aid, Palampur. 1043 0203 Precision Balance CG-L Series (G-203, Citizen)	1
14	Genomics Technologies Lab (DBT Lab)	Deep freezer -80 C	2
		Cold chamber vista bio cell	1
		Thermal cycler ABS	3
		Radiometer	1
		Microwave	1
		Glass Door Refrigerator Cell Frost	1
		Centrifuge 5810 R	1
		Digital incubator with shaker RT	1
		Innova 44R Incubator with Shaker	1
		Autoclave, Alpha Innotech (Sanya Autoclave). Model-MLS 3781	1
		Centrifuge, Macflow Engineering. Make- Eppendorf Model-AC4100F	1
		Cyclomixer, International Scientific Instrument. Model- CM-101	1
		Non-refrigerated centrifuge, BioNixs India, Mohali. Model-CT-15E	1
		Cold Storage, Vista Biocell. Size- 11.4" X 5.6" X 11"	1
		Chef-Drill Chiller, Bio-Rad Sys, 220/240 V (set)	1
		Deep Freezer (-20°C), United Agencies	3
		Gel DOC, Alpha Innotech	1

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		Versafluoro meter, Bio-Rad.	1
		S.Q. GEN GT/PPHV 38 X 50, 100/120 V, Bio-Rad.	1
		Double Door Freezer, United Agencies, Delhi. Model No.- FUG-1000	1
		Gene Pulser, Bio-Rad	1
		Water Bath, Labrex Biologicals (with temperature controller)	2
		Magnetic stirrer with hot plate, Research Aid Instruments. Model- MS-Z, MAC/MSW-313. Capacity- 2 Ltr	3
		Gel Rocker, Research Aid, Palampur. Model- MSW-309, Sea Saw Motion (30 X 30 cm)	1
		Analytical Balance, Denver. MacflowEngg Model- TB-215 D	1
		RT-PCR, MacflowBioRadEngg.	1
		Non-refrigerated Centrifuge, Bio Nixs India, S.C.F-7, Phase-6, Mohali-160005. Model No.- CT-15E. Max. Speed- 15000 rpm, Maximum RCF- 21500xg, Max. volume- 24 X 1.5 ml	1
		Table top refrigerated micro centrifuge, Bio Nixs India. Make- Hitachi. Model- CT-15RE	1
		pH meter, Bio Nix India, Mohali. Model No.- 3510, pH range- 2.000 to 19.999	1
		Nanodrop Spectrophotometer 2000°C	1
		Swing Centrifuge-Mini (Benchtop/BT-Mini 10 K + speed 10,000 rpm. International Scientific & Services, Solan	1
15	UG-4 (Biochem)	Analytical Balance, International Scientific Trader, Solan. Capacity-10 mg-200 g	1
		Centrifuge, Grover Enterprises Simple. Make- Remi	1
		Centrifuge, Beckman Coulter Allergrax	1
		Cyclomixer, International Scientific Instrument. Model- CM-101	1
		Magnetic stirrer with hot plate, Research Aid Instruments. Model- MS-Z, MAC/MSW-313. Capacity- 2 Ltr	1
		Magnetic stirrer without hot plate, Bash Chemo Agency (Elteck). Capacity- 500 ml	1
		Oven, Macflow Engineering, Size- 650 X 450 X 450 cm	1
		Rotary vacuum evaporator	1
		Water Bath, Bashchem Agency. Make- NSW/125 pH meter, Labrex Biologicals (LED Display-DB-1004), Decibel	1
		Refrigerator, L.G.Electronics Pvt. Ltd. Capacity- 350 Ltr. Model- 365YMQG4	1
		Scientific Microwave (Bashchemo Agency)	1
16	ATC Lab	Micro plate reader, Bio-Rad. Model- 680	2
		Refrigerator Samsung Double door	1
		CO2 Incubator	2
		Nikon Trinocular Stereo zoom Microscope	1

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		Inverted Microscope, Olympus	1
17	UG-5 Lab (Animal House)	Laminar Air Flow, Regeneration Technology, Chandigarh. Model- 1500C-36-24-24	1
		Water Aspirator	1
		Rota Evaporator	1
		Carousel 6 plus Reaction station	1
		Rota Evaporator with Vacuum	1
		Bio Safety Cabinet BSL-2 vaiometra	1
		Autoclave relitech	1
		Double door freeze Samsung	1
		Analytical/Digital Balance, Denver.	2
		Centrifuge, International Scientific Instrument Co. Make-Remi. Model- R-24. Capacity- 2 ml/1.5 ml	1
		Vortex Mixer, LabRex Biologicals	1
		Hot Plate, Labrex Biological	1
		Shaker, New Brunswick	1
		Refrigerator, Capacity- 165 Ltr. Model- 16 X TLSr.001249	1
		Scientific Microwave (Bashchemo Agency)	1
		Oven, Grover Enterprises	1
		Water Bath, Macflow Eng.	2
		Water Bath with Shaker, Scigenic Biotech. Model- WO 1	1
		Vaccum Pump, Macflow Engineering	1
		Tissue Homogenizer (Free by Macflow Engineering)	2
18	Green House	Portable Net House	1
		Vacuum Pump	2
		Coolng System	1
		Air Coolers	4
		Glass Distillation Unit	1
19	Gut Simulation Lab	Gas manifold	1
		Methane analyzer	1
		Hot plate	1
		Microwave bajaj	1
		Peristaltic Pump(Rave+zenith)	9
		Autoclave (Small Size)	1
		pH controller zenith	2
		Magnetic stirrer zenith	5
		Circulatory water bath	1
20	Bioinformatics Lab	Lenovo Computers	30
21	Bioinformatics Project Lab	Dell Computers	8
		Lenovo Computers	12
	Common Facilities	Vertical Autoclave	6

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	B.O.D Incubator, Scigenics Biotech Laboratories, Chennai	1
	B.O.D Incubator, MacflowEngg.	1
	Cold Storage, Blue Star Ltd., Size- 104.5" X 93" X 98.7". Model- CR	1
	Cold Storage, Mac flow Engineering, Size- 150 cm X 75 cm X 4	1
	Deep Freezer (-80°C), New Brunswick Scientific Co. Inc.	1
	Deep Freezer (-80°C), New Brunswick Scientific Co.	1
	Sonicator with water bath Citigen	1
	Water Bath with Shaker, Scigenic Biotech. Model- WO 1	3
	Water Purification System (Elix& Milli-Q, Make-Millipore) Set	2
	Ice Flaking Machine, United Agencies, Delhi. Model No.- Rf-266	1
	Orbital Incubator Shaker cum BOD	1
	Total	374

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Department of Electronics and Communication Engineering 2022-23

S. No	Name of the Lab	Major equipment in the laboratories	Unit/s		
1	Computer Lab 1	Processor intel® Core™ i3-3220 CPU @3.30GHz 3.30GHz RAM 4GB, Windows 10 64 bit , 270GB HDD	1		
		Processor intel® Core™ i3-2100 CPU @3.30GHz 3.30GHz RAM 2GB, Windows 7 32 bit , 450GB HDD	9		
		Processor intel® Core™ i3-2120 CPU @3.30GHz 3.30GHz RAM 4GB, Windows 7, 64 bit , 450GB HDD	22		
		Processor intel® Core™ i5-4460 CPU @3.30GHz 3.30GHz RAM 4GB, Windows 8.1 64 bit , 450GB HDD	9		
		Processor intel® Core™ i5-7400 CPU@3.00GHz 3.00GHz RAM 8GB Windows 10 pro., 1 TB HDD	17		
		DELL PRECISION TOWER 3420 (WINDOWS10 PRO, 8GB RAM, Xeon Processor E1225 V5 @ 3.30 GHZ), 1 TB HDD	1		
		DIGILENT BASYS 2 100	7		
		DIGILENT SPARTAN 6 FPGA DEVELOPMENT BOARD 324 PIN	1		
		NI ELVIS /II	1		
		NI MECHATRONIC SENSORS BOARD FOR ELVIS-II	1		
		NI PROTOTYPING BOARD FOR ELVIS-II	1		
		NI SMART CAMERA	1		
		DIGILENT ZED BOARD (Vivado)	2		
		NI LAB VIEW SOFTWARE (50 Users)	1		
		XILINX VIVADO-SYSTEM -2018.1 64 bit (25 Users)	1		
		2	ECL-1	MATLAB 2019 b (25 Users)	1
				Digital CRO (GWINSTEK)	12
Function Generator (GWINSTEK)	12				
Project Board, BB12V (VIJAYANTA)	12				
Power Supply (APLAB)	15				
Digital Multimeter (SANWA)	7				
Digital Multimeter (RISHAB)	10				
Current Source (Meco)	3				
Digital Multimeter (Sanwa-CD800a)	10				
Digital Multimeter (Rishab-14S)	8				
3	ECL-2	DSO-50MHZ (Gwinstek-GDS 1052U)	12		
		Function Generator-3 MHZ (Gwinstek-SFG 1013)	12		
		Multi output DC Power Supply (Scientific-PSD3304)	15		
		Project Bread Board (Vijayanta-BB 12V)	15		
		Dc Power Supply (Aplab-L3202)	1		
		Digital IC Tester (Leaper- LP-01)	1		
		Current Source (Meco- 333)	2		

S. Kumar

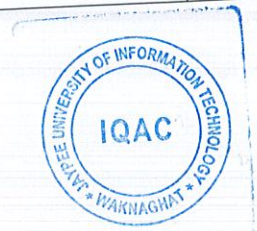
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4	ECL-3	Project Board, BB12V	15
		Power Supply, LQ 6324	15
		8051/251 Single board Computer/Evaluation board with ADP PPI Adapter; Model: ESA KEIL MCBx51	10
		DAC for ADC & Temp. Sensor Interface, Model: IF-DADC	10
		4-Digit, 7 Segment LED Display Interface, Model: IF-DIS	10
		Logic Controller Interface, Model: IF-LC	10
		Traffic Lights Interface, Model: IF-TRL	9
		4x4 Matrix Hex keyboard interface, Model: IF-HEXKBD	10
		Function Generator, ST 4060	2
		Function Generator, ST 4061	28
		Digital Multi-meter (Rish 14S)	13
		Project Board, ST 2610	10
		Digital IC Tester LP01	1
		5	ECL 4
Three Phase Auto Transformer, 3 ϕ , 8A (Voltex- 2 & Packard-2)	4		
DC Ammeter, (0-1A) (Meco)	4		
DC Ammeter, (0-2A) (Meco)	8		
DC Ammeter, (0-5A) (Meco)	7		
DC Shunt Generator, 3 ϕ 0.5HP with AC Induction Motor 1H.P.(Drive) OR Coupled (Voltex)	2		
Induction Motor, 3 ϕ 1 HP (Voltex)	2		
Induction Motor 3 ϕ , 1/4hp (Voltex)	1		
Rheostat, 100 Ohm 5A (Siba)	7		
Rheostat, 1000 Ohm 2A (Siba)	8		
Single Phase Transformer, 1KVA (Packard)	2		
Single Phase Transformer, 1KVA (Voltex)	1		
Three Phase Transformer, 1KVA (Voltex)	1		
Single Phase Auto Transformer (Variac), 8A	4		
Synchronous Motor, 1HP	1		
Resistance Load Bank, 0-10A (Voltex-3 & Packard-2)	5		
Dc Power Supply (0-200V, 2A (Voltex-1 & Packard-2)	3		
Wattmeter (0-750/1500/3000W, 5/10A) (Meco)	10		
Digital Tachometer (Kusam Meco)	5		
Digital Multimeter (14S)	8		
Analog Multimeter (P-3)	5		
AC Ammeter (0-5-10A) (Meco)	10		
AC Voltmeter (0-300-600V) (Meco-10 & AE-2)	12		
DC Voltmeter (0-300V) (Yokins)	1		
Rheostat, 10 Ohm 10A (Voltex)	4		
Rheostat, 100 Ohm 5A (Voltex)	3		

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	Panels For Experiments (10"*12")	8
	DC Ammeter (0-5A) (Omega-65)	1
	DC Voltmeter (0-300)V (Meco)	8
	Single Phase Auto Transformer (Variac),4A (AE)	2
	Wattmeter (0-700W,150/300/600V,5/10A) (EPL)	2
	Wattmeter (0-500W,250V,2.5/5A) (AE)	1
	Wattmeter (0-300W,150/300/600V,2.5/5A)	2
	AC Ammeter (0-5-10A) (AE)	1
	DC Ammeter (0-1mA) (Meco)	10
	DC Power Supply (ST4077)	15
	CRO (Caddo 803D)	5
	Function Generator (ST 4063)	1
	Function Generator (Caddo 4063A)	1
	Function Generator (Caddo 4061)	6
	DC Power Supply (Aplab)	10
	Bread Board (Vijayanta)	10
	OutPut Power Meter (ST501)	1
	CRO (Caddo 803)	3
	DSO 50Mhz	9
	Function Generator 3Mhz	9
	DMM (Sanwa)	11
	Table lamp (Monex)	10
	Rheostat, 1000 Ohm 0.5A (Labin)	10
	Decade Inductance Box (Labin)	10
	Variable DC Power Supply 0-250V (Packard)	10
	Variac (Auto Transformer) 8A, 0-560V (Dimmerstat)	10
	Milli amperes 0-500mA (DC Ammeter) (AE)	20
	Milli amperes 0-100mA (DC Ammeter) (Meco-V)	6
	Voltage Commutated Thyristorised Chopper (OMEGA , PET-430)	1
	Study of SCR and A.C. Pahse Controler (OMEGA, PET-402)	1
	Zigbee Modules 100M Range	10
	Zigbee Modules Adapter	5
	Metal Gear Servo Motor	5
	Sharp GP2y0A21ykof Infrared range Sensor	10
	GPS Receiver	2
	Fire Bird Robot	4
	Spart V Robot Adapter	5
	Fire Bird Adapter	3
	Fire Bird Adapter Card	5
	Servo Motor Based Griper Kit	2
	Gyroscope Accelerometer and GPS Interfacing Module	2

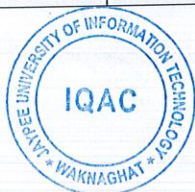
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		Desktop computer Dell with Intel core i5 processor, 8GB RAM, 1TB HDD and 19-inch Monitor	3
6	ECL-5	Distortion Meter (HM5027)	5
		1GHz Frequency Counter (HM5021)	2
		Project Board	17
		Digital IC Tester (LP-01)	1
		Digital Multi-meter (Rish14s)	10
		Analog IC Tester	1
		TDM Pulse Amplitude Modulation/Demodulation Trainer (ST2102)	1
		TDM Pulse Code Modulation Transmitter Trainer (ST2103)	1
		TDM Pulse Code Modulation Receiver Trainer (ST2104)	1
		Delta, Adaptive Delta and Delta Sigma Modulation/ Demodulation Trainer (ST2105)	1
		Data Formatting and Carrier Modulation/Transmitter Trainer (ST2106)	1
		Data Reformatting and Carrier Demodulation Receiver Trainer (ST2107)	1
		Digital CRO (GDS-1052U)	12
		Function Generator (SFG1013)	27
		Power Supply (PSD3304)	15
		Phase Locked Loop (Omega)	1
Phase Shift Keying (Omega)	1		
7	ECL 6	Dell Computer Systems Modal No. VOSTRO 3669 Core i5, 7th Generation, 3.00 GHz with 8GB RAM and 1 TB HDD (Windows 10 professional)	12
		Ansys Academic HFSS Software	01 User
		Digital Storage Oscilloscope 60Mhz(TDS2002)	7
		Digital Storage Oscilloscope 100Mhz (GDS-1102U)	3
		Agilent Digital Storage Oscilloscope (DSO3102A)	1
		Agilent CSA Spectrum Analyzer (N1996A)	1
		Agilent RF Network Analyzer (8714ET)	1
		Bloom with DSP CDs	15
		Bluetooth Comm. Training Systems (BT2001)	1
		Spectrum Analyzer (SA3005)	1
		Function Generator 15Mhz (DG1012)	6
		Function pulse Generator (ST4064)	1
		Gunn Power Supply (GS610)	3
		VSWR Meter (Sico)	5
VSWR Meter (NV103A)	6		
VSWR Meter (ST103)	3		

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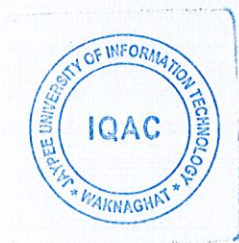
		LCR-Q- Meter (4910)	1
		LCR Meter (LCR-814)	1
		Klystron Power Supply (NV102)	5
		Klystron Power Supply (ST102)	3
		Microwave Power Meter (NV105)	1
		LC Transmission Line Kit (ETB-10)	2
		Wave Guide Adapter (NV225)	4
		Phase Shifter (NV238)	4
		Optical Fiber Trainer (Benchmark)	4
		Project board (ST2610)	7
		Writing Tab (Wacom)	1
		Mitsubishi Electric FA Learning Setups (Training Kits)	2
		Base rack - 8 slots	1
		Power supply for PLC	1
		PLC CPU with 40K Steps memory	1
		2 GB memory card	1
		Simple Motion Module for 4 axis	1
		Dual network module: Ethernet & CC-Link IE	1
		Digital input module with 32 I/P, sink /source and high speed	1
		Digital output module, Transistor output Source type, v 32 points	1
		4 channel Analog Output Module	1
		4 channel Analog Input, Module	1
		Servo amplifier for three axis, 400W each	1
		Encoder cable for servo motor	3
		Power cable for servo motor	3
		Battery Case	1
		Battery for servo amplifier	2
		Battery Cable	1
		SSCNET cable	1
		Servo motor 400 W	3
		A800 series inverter 400W	1
		CC-Link IE Field Card for Inverter	1
		8.4" Screen HMI – GT200 series	1
		Connector	3
		I/O simulator and X-Y table setup & Induction Motor setup	1
		iQ Works Programming Software	1
8	ECL-7	Micro Controller Programmer	2
		8085 Microprocessor Tr. Kit	9
		8086 Advance Microprocessor tr. Kit	9
		8031 Micro Controller Kit	5
		8051 Micro Controller Kit	4

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		Power Supply With Cable	30
		8255 Study Card	2
		8279 Study Card	1
		8253 Study Card	1
		8251 Study Card	1
		8257 Study Card	1
		8259 Study Card	1
		8212 Study Card	1
		Buffer, Latch Decoder Card	1
		8 Channel ADC Module	1
		Computer Systems	1
9	ECL-8	Dell Computer Systems Modal No. VOSTRO 3669 Core i5, 7th Generation, 3.00 GHz with 8GB RAM and 1 TB HDD (Windows 10 professional)	14
		Wicomm-T (IF & Base Band)	2
		Writing Pad (Wacomone Creative Pen Display)	1
		2.1 Multimedia Speaker F&D A111-B008MWOGH6	1
		Drone (Assembled)	4
		Cadence VLSI Design Software	10 user
10	ECL-9	Dell Computer Systems Core i5-6500 cup @3.00 GHz with 8GB RAM and 1 TB HDD (Windows 10 professional)	14
		Total	1090



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Department of Computer Science & Engineering and Information Technology
2022-23

S. No.	Name of the Lab	Major equipment in the laboratories	Unit/s
1	Computer Lab 3	HP 280 G2 MT PC (WINDOWS10 PRO, 8GB RAM, CORE i5 6500@ 3.2 GHZ 6TH GENERATION)	60
		DELL PRECISION TOWER 3420 (WINDOWS10 PRO, 8GB RAM, Xeon Processor E1225 V5 @ 3.30 GHZ)	1
		Logitech B525 HD Webcam, Logitech Wired Headphone (each)	2
2	Computer Lab 4	HP 280 G2 MT PC (WINDOWS10 PRO, 8GB RAM, I5 6500, 3.2 GHZ 6 TH GENERATION)	49
		Logitech B525 HD Webcam, Logitech Wired Headphone	1
3	Computer Lab 5	Lenovo Think Centre, Processor Intel(R) Core(TM) i3 @ 2.90GHZ, RAM 2.00 GB, HDD - 250 GB OS - Windows 7 Professional 32 bit	62
		Logitech B525 HD Webcam, Logitech Wired Headphone	2
4	Computer Lab 6	Modal No. HP280G2MT, Core i5-6500 cup @3.2 GHz with 8GB RAM, and 1 TB HDD,(Windows 10 professional), (Windows 10 professional),	20
		Modal No. DELL VOSTRO 3669, INTEL CORE i5 @ 3.00 GHZ, 8GB, RAM,1TB HDD,	23
		Modal No. LENOVO 10B3-AOREIG, Core i3 @ 3.3 GHZ, 64 bit, 500 GB Hard, disk, 4GB RAM) (Windows 8.1)	1
		Modal No. LENOVO 3597-3MS, Core i3 @ 3.3 GHZ, 64 bit, 500 GB Hard, disk, 4GB RAM) (Windows 7 Pro)	3
		Modal No. LENOVO RS7 (5474), Core i3@2.90GHZ, 32 bit, 250 GB Hard, Disk, 2GB RAM, (Windows 7 professional sp1)	1
		Modal No. DELL Tower 3420, Intel Xeon @3.30 GHZ ,64 bit, 8GBRAMand 1TB HDD, (Windows 10 pro)	1
		Logitech B525 HD Webcam, Logitech Wired Headphone	1
		B/W.Printer-1:Toshiba e Studio 306 SE	1
		Color.Printer-2: Hp DeskJet GT 5810	1
		5	Computer Lab 7
Lenovo Think Centre, Core i3 @ 3.10 GHZ, 32 bit, 300GB/ 500GB Hard disk, Windows7 32 bit, 2GB RAM	8		
Lenovo Think Centre, Core i3 @ 3.10 GHZ, 64 bit, 500GB Hard disk, Windows7 64 bit, 4GB RAM	1		
Logitech B525 HD Webcam, Logitech Wired Headphone	1		
6	Computer Lab 8	Lenovo Think Centre Core i3 @ 3.3 GHZ, 64 bit, 500 GB Hard disk, 4GB RAM, WINDOWS7 64	68
		Lenovo Think Centre Core i3 @ 3.1 GHZ, 32 bit, 300 GB Hard disk, 2GB ram, Windows 7 32 bit	4
		DELL PRECISION TOWER 3420 (WINDOWS10 PRO, 8GB RAM, Xeon Processor E1225 V5 @ 3.30 GHZ)	1

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		Toshiba 2309a Laser printer	1
		Logitech B525 HD Webcam, Logitech Wired Headphone	1
7	Computer Lab 9	HP 280 G2 MT PC (WINDOWS10 PRO, 8GB RAM, CORE i5 6500@ 3.2 GHZ 6 TH GENERATION)	55
		Dell Vostro 3669 Intel Core i5-7400 CPU@3.0GHZ,1 TB HDD, Windows 10 pro 64 bit, 8GB RAM	1
		ThinkCentre Core i3-2120 @3.30 GHZ,320 GB HDD, 4GB RAM, WINDOWS 10 PRO	2
		DELL PRECISION TOWER 3420 (WINDOWS10 PRO, 16GB RAM, Xeon Processor E1225 V5 @ 3.30 GHZ)	2
		Logitech B525 HD Webcam	3
		Logitech Wired Headphone	2
		Wacom Digitab	1
		Craetive Speakers A235	1
		HP Scanjet G2410	1
		Projctor- Canon LV7260	1
		Hp laserjet P1566	1
8	Computer Lab 10	Dell Vostro, Intel(R) Core i5 7400 cpu @ 3.00 GHZ,3.00 GHz 64-bit, 1 TB Hard disk, Windows 10 Prof 64 bit. 8GB RAM	65
		Dell Optiplex 3070, Intel(R) Core i7 7400 cpu @ 3.00 GHZ,3.00 GHz 64-bit, 1 TB Hard disk, Windows 10 Pro 64 bit, 16 GB RAM	13
		Logitech B525 HD Webcam	1
		Logitech Wired Headphone	1
9	Computer Lab 11	Dell Vostro ,Core i5 @ 3.3 GHZ, 64 bit, 1 TB Hard disk,8GB HDD, Windows 10 Pro. 64 bit	30
		Logitech B525 HD Webcam	1
		Logitech Wired Headphone	1
10	Computer Lab 12	HP 280 G2 MT PC (WINDOWS10 PRO, 8GB RAM, CORE i5 6500@ 3.2 GHZ 6 TH GENERATION)	1
		Dell Vostro 3669 Intel Core i5-7400 CPU@3.0GHZ,1 TB HDD, Windows 10 pro 64 bit, 8GB RAM	11
		Total	542

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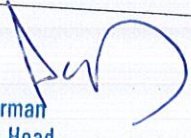
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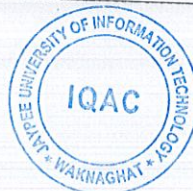
Department of Physics and Materials Science 2022-23

S. No.	Name of the Lab	Major equipment in the laboratories	Unit/s
1	Physics Lab 1	Acoustic optical effect	2
		BIOT Savart Law	2
		Di-Electric Set	4
		"e/m" set	6
		Fresnel's Bi-Prism	2
		Four Probe set	6
		Fiber optics kit	6
		Diffraction Grating with Spectrometer	2
		Hall effect set	3
		Hysteresis Loop Tracer	4
		Electromagnet	2
		Magnetostriction Set	2
		Newton's ring set	2
		Planck's constant set	6
		Specific Rotation set	2
		Dispersive power of prism (Spectrometer)	4
		Solar Energy Trainer	4
		Wave propagation Trainer	2
		Laser diode	2
		Power Supply(5amp;30V)	4
		Gauss Meter	2
He-Ne laser	1		
Table Lamp	17		
2	Physics Lab 2	Tool Kit	1
		Fresnel s Bi-prism set up	2
		Magnetic Susceptibility set up	1
		Newton' s Ring set up	2
		Planck' s constant set up	2
		Spectrometer for Dispersive power of prism set up	2
		Spectrometer for transmission Grating set up	2
		Specific rotation set up	2
		Viscosity set up	2
		Table Lamp	13
		E/m Thomson set up	1
		Four probe set up	1
		Digital gauss meter with probe	2
		Optical fiber set up	2
BH- Curve set up	2		




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3	Research (CVD Lab)	Hall Effect Set-up	1
		Furnace (TH E F)	1
		Argon Gas Cylinder	1
		Electromagnet	1
		Double stage 50L.P.M Vacuum pump	1
		Single stage 50Lp.m Vacuum pump	1
		Digital High Voltage Power Supply	1
		Magnetic Stirrer Hot Plate	1
		Along pirani Gauge	1
		Valve for line	1
		250LPM vacuum pump	1
		HP Laser jet	1
		High temp 4probe setup	1
		Argon Gas Cylinder	1
		Argon gas regulator	1
		Cylinder regulator	2
		Power supply	2
		Furnace	1
		HE NE Leaser	2
		E/M by Thomson	2
4	Material Science Lab	Vacuum coating unit	1
		Electron Beam Gun power supply	1
		Rotary Flask shaker	1
		L.G Refrigartor	1
		Magnetic stirrer with hot plate(2ltr)	1
		Magnetic stirrer (2ltr)	1
		Magnetic stirrer (2ltr)	1
		Ultra sonic cleaner	1
		Hydrogen gas cylindre	1
5	Characterizations Lab	Pico Ammeter	1
		UV spectrophotometer	1
		Air STM	1
		Digital Mill voltmeter	1
		Digital Multimeter	1
		Soldering iron with stand	1
		Mask flow controller(0-10,sccm)	1
		Mask flow controller(0-1,sipm)	1
		Gas mixing chamber & sensing	1
		Argon gas meter	1
		LS-55photoluniscence spectrophotometer	1
		Hydrogen gas cylinder	2



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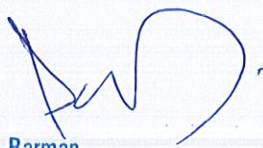
		Nitrogen gas cylinder	1
		Magnetic stirrer(1mlh)	1
		Systronic signal pulse generator	2
		Carbon monoxide	1
		NO ₂ cylinder	1
		CH ₄ cylinder	1
6	2-D Lab	BMT Hand tool kit	1
		Ice Bath	1
		Regulator	3
		Nitrogen gas cylinder	1
		Hydrogen gas cylinder	1
		Kip's Apparatus (250mL Glass)	1
		Kip's Apparatus(250mL Glass)	1
		Mass flow controller 0-50SCCM	1
		Mass flow controller 0-SLPM	1
		CVD System pc interface with Datalog	1
		Temperature controler	1
		Cylinder regulator inlet	1
		Hydrothermal reactor	1
		KBR Die set	1
		Zero Air cylinder	1
		Desiccator 250ml	2
7	Synthesis Lab	Hydrogen Thermal reactor	2
		Magnetic stirrer(2Ltr)	5
		Ph Meter	1
		Hot plate	2
		Hot air oven	1
		Clean work bunch (Laminar)	1
		Electronic balance	1
		Spin coating unit	1
		Magnetic stirrer(5Ltr)	1
		Centrifuge machine	1
		Computer set	1
		Programmable high temp.furnace	1
		Digital magnetic stirrer	1
		Double Distillation unit	1
		Rota mental	1
8	Electrical Characterization Lab	High temp. two probe setup	1
		Hydraulic press	1
		Electrical balance	1
		Digital D.C microvoltmeter	1



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		Digital pico Ammeter	1
		Vacuum pump	1
		High power DC power supply	1
		Light Lux Meter	1
		Dielectric measurement setup	1
		Constant Current Source	1
		Multimeter Digital	1
		Digital pirani gauge	1
9	Antenna Lab	VNA	1
		PCB prototype machine	1
		Total	231




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Department of Humanities and Social Sciences 2022-23

S. No.	Name of the Lab	Major equipment in the laboratories	Unit/s
1	LANGUAGE LAB (HSS)	Hardware:	
		Dell Precision Tower 3420 Workstation Intel Xeon CPU E3-1225 V5@ 3.3 GHZ, 64 bit, RAM-8 GB, HDD 1TB, Windows 10	1
		HP 280 G2 MT Business PC Intel Core i5-6500CPU @ 3.2 GHZ, 64 bit, RAM-8GB HDD-1TB, Windows 10	5
		Dell-D19M-Vostro Intel Core i5-7400-7thGen@3.0GHZ, 64bit, RAM 8GB, HDD-1TB, Windows 10 Pro	25
		Lenovo Desktop PC Intel (R) Core (TM) i3 2100 CPU @ 3.10 GHz RAM 2GB System type 32 bit operating system	2
		Headphones Logitech (H-111)	6
		Headphones Logitech (H-110)	27
		Webcam Logitech(C615)	1
		Software:	
		Practical Writing (CLARITY ENGLISH)	33
		Tense Buster (CLARITY ENGLISH)	33
		Clarity S.NET	30
		SPSS (24)	3
		Microsoft office <i>2007</i>	33
		Adobe reader 9.0	33
	Total	232	



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