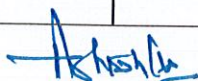


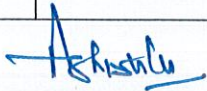
**Major Equipments in the Laboratories 2019-20**  
**Department of Civil Engineering 2019-20**

| S. No. | Name of the Lab                               | Major equipment in the laboratories                   | Unit/s |
|--------|---|---|--------|
| 1      | <b>Surveying lab/Structural Mechanics Lab</b> | 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      |
| 2      | <b>Highway Engineering Lab</b>                | 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      | <b>Concrete Lab</b>                           | 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      |
| 4      | <b>Geotechnical Lab</b>                       | 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      |
|        |   | Data logger   | 1      |
|        |   | Pull Out Instruments for Soil Nails                   | 1      |
|        |   | Hydraulic Jack With Load Cell(35 ton)                 | 1      |
|        |   | Incinerator   | 1      |




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|                     |  |   |   |
|---------------------|--|---|---|
| 5                   | <b>Fluid Mechanics Lab</b>                         | 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                   | <b>Chemistry and Environmental Engineering Lab</b> | 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 CO <sub>2</sub> & CH <sub>4</sub>            | 1 |
|                     |  | Hydraulic Jack With Load Cell(5 ton)                        | 1 |
|                     |  | Earth Pressure Cell   | 1 |
| Depth Water Sampler | 1  |   |   |
| 7                   | <b>Civil Software lab</b>                          | 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 |
|                     |  | Bentley Civil Bundle of Perpetual Network Based (Unlimited) | 1 |
| 8                   | <b>Fluvial Hydraulics &amp; Research Lab</b>       | Open Channel Flume( 20 Mtr )                                | 1 |
|                     |  | Acoustic Doppler Velocimeter Nortek USA                     | 1 |
|                     |  | Conductivity meter  | 1 |
|                     |  | Mixer Grinder   | 1 |
|                     |  | Digital temperature Meter                                   | 1 |
|                     |  | Kjeltron Apparatus  | 1 |
|                     |  | Incubator Inner 5.5   | 1 |
|                     |  | Digital TDS Meter   | 1 |
|                     |  | Digital Weighing Balance                                    | 1 |
|                     |  | Digital Tuibidity Meter                                     | 1 |

  
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|    |                                 |  |            |
|----|---------------------------------|--|------------|
|    |                                 | Digital Conductivity Meter   | 1          |
|    |                                 | Lenovo P500 Workstation with 64 GB RAM ,4 GB NVIDIA QUADRO K4200 Graphics Card, 2 TB Storage | 2          |
| 9  | <b>Workshop Practices Lab</b>   | Welding Machine  | 1          |
|    |                                 | Milling Machine  | 1          |
|    |                                 | Drilling Machine   | 1          |
| 10 | <b>Engineering Graphics Lab</b> | Drawing table  | 35         |
|    |                                 | <b>Total</b>   | <b>151</b> |



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## Department of Biotechnology & Bioinformatics 2019-20

| 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 <sub>2</sub> 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      |

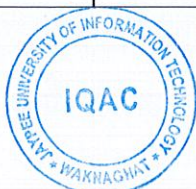


  
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|   |                         |  |   |
|---|-------------------------|--|---|
|   |                         | Swing Centrifuge 10000rpm tarson   | 1 |
|   |                         | Electrophoresis system biorad  | 1 |
|   |                         | 2D Electrophoresis system  | 1 |
|   |                         | Refrigerated Centrifuge, Eppendorf India Ltd.  | 1 |
|   |                         | 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 | <b>Equipment Room-1</b> | 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. Adolt Kuhner. 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 |
|   |                         | Lyophizer Macflow  | 1 |
|   |                         | Peristaltic Pump, Macflow Engineering  | 1 |
|   |                         | Vaccum Pump, Macflow Engineering   | 1 |
|   |                         | Vaccum Pump, Macflow Engineering. Make- Millipore. Catalogue No.- WP6122050  | 1 |



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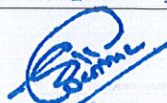
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|  |                  |  |    |
|--|------------------|--|----|
| 5  | Equipment Room-2 | ATOMIC ABSORPTION SPECTROSCOPY PERKIN ELMER  | 1  |
|  |                  | Sonicator, Sonics Pvt. Ltd.  | 1  |
|  |                  | Gas Chromatography, Agilent 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  |
|  |                  | 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                |  |    |



  
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|    |                           |  |   |
|----|---------------------------|--|---|
|    |                           | Spectrophotometer (U.V. Visible), Elico Ltd. Model- SL 159   | 1 |
| 7  | UG-2 Lab                  | BOD Incubator  | 1 |
|    |                           | Thermal Cyclor   | 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 <sub>2</sub> incubator, New Brunswick Scientific  | 1 |
|    |                           | Hot Plate, Labrex Biological   | 1 |
|    |                           | Laminar Air Flow   | 3 |
|    |                           | Shaker, Sciezenics BioZech. 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 |

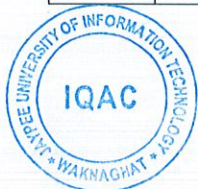


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|    |  |   |   |
|----|--|---|---|
|    |  | Thermal Cycler, International Scientific & Services, Solan  | 1 |
| 11 | <b>UG-3 Lab (Food Tech.)</b>                 | Gel rocker  | 1 |
|    |  | UV-Transilluminator   | 1 |
|    |  | Agarose electrophoresis 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 | <b>High End Instrumentation Facility Lab</b> | GC SCION 456  | 1 |
|    |  | Three gas cylinder(N <sub>2</sub> ,H <sub>2</sub> 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 |
|    |  | Refrigerator, L.G.Electronics Pvt. Ltd. Capacity- 350 Ltr. Model- 365YMQG4                                  | 1 |
|    |  | Microscope, Research Aid, Palampur, MSZ-TR, Magnus zoom   | 1 |
|    |  | stereo trinocular (LED) Olympus/Magnus  |   |
|    |  | Swing Centrifuge-Mini (Benchtop/BT-Mini 10 K + speed 10,000 rpm. International Scientific & Services, Solan | 1 |
|    |  | Ultrasonicator, International Scientific & Services, Solan.   | 1 |
|    |  | Citizen/CU135, Tank- 5 Ltrs (240 X 140 X 100)   |   |
|    |  | Compact LC-MS System and Nano-Advance UHPLC, Bruker   | 1 |
| 13 | <b>PG Lab</b>                                | Oven, International Scientific  | 1 |



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|    |  |  |   |
|----|--|--|---|
|    |  | 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 Senes (G-203, Citizen)                            | 1 |
| 14 | <b>Genomics Technologies Lab (DBT Lab)</b> | 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 |
|    |  | 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 |



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|    |                       |  |   |
|----|-----------------------|--|---|
|    |                       | 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. Macflow Engg Model- TB-215 D   | 1 |
|    |                       | RT-PCR, Macflow BioRad Engg.   | 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-   | 1 |
|    |                       | Hitachi. Model- CT-15RE  |   |
|    |                       | 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 | <b>UG-4 (Biochem)</b> | 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- 2000 ml  | 1 |
|    |                       | Oven, Macflow Engineering, Size- 650 X 450 X 450 cm  | 1 |
|    |                       | Rotary vacuum evaporator   | 1 |
|    |                       | Water Bath, Bashchem Agency. Make- NSW/125   | 1 |
|    |                       | pH meter, Labrex Biologicals (LED Display-DB-1004), Decibel  |   |
|    |                       | Refrigerator, L.G.Electronics Pvt. Ltd. Capacity- 350 Ltr. Model- 365YMQG4   | 1 |
|    |                       | Scientific Microwave (Bashchemo Agency)  | 1 |



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|--|--------------------------------|--|---|
| 16   | <b>ATC Lab</b>                 | Micro plate reader, Bio-Rad. Model- 680  | 2 |
|  |                                | Refrigerator Samsung Double door   | 1 |
|  |                                | CO2 Incubator  | 2 |
|  |                                | Nikon Trinocular Stereo zoom Microscope  | 1 |
|  |                                | Inverted Microscope, Olympus   | 1 |
| 17   | <b>UG-5 Lab (Animal House)</b> | 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   | <b>Green House</b>             | Portable Net House   | 1 |
|  |                                | Vacuum Pump  | 2 |
|  |                                | Cooling System   | 1 |
|  |                                | Air Coolers  | 4 |
|  |                                | Glass Distillation Unit  | 1 |
| 19   | <b>Gut Simulation Lab</b>      | Gas manifold   | 1 |
|  |                                | Methane analyzer   | 1 |
|  |                                | Hot plate  | 1 |
|  |                                | Microwave bajaj  | 1 |
|  |                                | Peristaltic Pump(Rave+zenith)  | 9 |
|  |                                | Autoclave (Small Size)   | 1 |



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|    |                                   |   |            |
|----|-----------------------------------|---|------------|
|    |                                   | pH controller zenith  | 2          |
|    |                                   | Magnetic stirrer zenith   | 5          |
|    |                                   | Circulatory water bath  | 1          |
| 20 | <b>Bioinformatics Lab</b>         | Lenovo Computers  | 30         |
| 21 | <b>Bioinformatics Project Lab</b> | Dell Computers  | 8          |
|    |                                   | Lenovo Computers  | 12         |
|    | <b>Common Facilities</b>          | Vertical Autoclave  | 6          |
|    |                                   | B.O.D Incubator, Scigenics Biotech Laboratories, Chennai            | 1          |
|    |                                   | B.O.D Incubator, Macflow Engg.                                      | 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 Company              | 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          |
|    |                                   | <b>Total</b>  | <b>374</b> |



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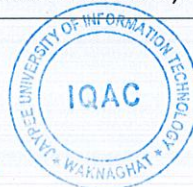
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**Department of Computer Science & Engineering and Information Technology  
2019-20**

| 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      |
| 2      | Computer Lab 4  | HP 280 G2 MT PC ( WINDOWS10 PRO, 8GB RAM, I5 6500, 3.2 GHZ 6 <sup>TH</sup> GENERATION)  | 49     |
|        |                 | HP LASERJET 5200Tn Printer  | 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     |
| 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-A0REIG, 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      |
|        |                 | B/W.Printer-1:Toshiba e Studio 306 SE   | 1      |
|        |                 | Color.Printer-2: Hp Desklet GT 5810   | 1      |
| 5      | Computer Lab 7  | IBM CPU:7413-A81,80GB/160 GB,Intel P4 Duo @3.00GHZ, 1GBRAM, WINDOWS XP  | 34     |
|        |                 | Lenovo Think Centre, Core i3 @ 3.10 GHZ, 32 bit, 300GB/ 500GBHard 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      |
| 6      | Computer Lab 8  | Lenovo Think Centre Core i3 @ 3.3 GHZ, 64 bit, 500 GB Harddisk,4GB RAM, WINDOWS7 64   | 68     |
|        |                 | Lenovo Think Centre Core i3 @ 3.1 GHZ, 32 bit, 300 GB Harddisk, 2GB ram, Windows 7 32 bit                                       | 4      |

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|    |                        |  |            |
|----|------------------------|--|------------|
|    |                        | DELL PRECISION TOWER 3420 (WINDOWS10 PRO, 8GB RAM, Xeon Processor E1225 V5 @ 3.30 GHZ )                                    | 1          |
|    |                        | Toshiba 2309a Laser printer  | 1          |
| 7  | <b>Computer Lab 9</b>  | HP 280 G2 MT PC ( WINDOWS10 PRO, 8GB RAM, CORE i5 6500@ 3.2 GHZ 6 <sup>TH</sup> 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          |
|    |                        | Wacom Digitab  | 1          |
|    |                        | Craetive Speakers A235   | 1          |
|    |                        | HP Scanjet G2410   | 1          |
|    |                        | Projctor- Canon LV7260   | 1          |
|    |                        | Hp laserjet P1566  | 1          |
| 8  | <b>Computer Lab 10</b> | 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         |
| 9  | <b>Computer Lab 11</b> | Dell Vostro ,Core i5 @ 3.3 GHZ, 64 bit, 1 TB Hard disk,8GB HDD,Windows 10 Pro. 64 bit                                      | 30         |
| 10 | <b>Computer Lab 12</b> | HP 280 G2 MT PC ( WINDOWS10 PRO, 8GB RAM, CORE i5 6500@ 3.2 GHZ 6 <sup>TH</sup> GENERATION)                                | 1          |
|    |                        | Dell Vostro 3669 Intel Core i5-7400 CPU@3.0GHZ,1 TB HDD, Windows 10 pro 64 bit, 8GB RAM                                    | 11         |
|    |                        | <b>Total</b>   | <b>526</b> |



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## Department of Electronics and Communication Engineering 2019-20

| 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<br>3.30GHz RAM 4GB, , Windows 10 64 bit , 270GB<br>HDD     | 1      |
|       |                  | Processor intel® Core™ i3-2100 CPU @3.30GHz<br>3.30GHz RAM 2GB , Windows 7 32 bit , 450GB<br>HDD       | 9      |
|       |                  | Processor intel® Core™ i3-2120 CPU @3.30GHz<br>3.30GHz RAM 4GB , Windows 7, 64 bit , 450GB<br>HDD      | 22     |
|       |                  | Processor intel® Core™ i5-4460 CPU @3.30GHz<br>3.30GHz RAM 4GB , Windows 8.1 64 bit , 450GB<br>HDD     | 9      |
|       |                  | Processor intel® Core™ i5-7400 CPU@3.00GHz<br>3.00GHz RAM 8GB Windows 10 pro., 1 TB HDD                | 17     |
|       |                  | DELL PRECISION TOWER 3420 (WINDOWS10 PRO,<br>8GB RAM, XeonProcessor E1225 V5 @ 3.30 GHZ ),<br>1 TB HDD | 1      |
|       |                  | Digilent Basys 2 100   | 7      |
|       |                  | Digilent Spartan 6 Fpga Development Board 324<br>Pin   | 1      |
|       |                  | Ni Elvis /li   | 1      |
|       |                  | Ni Mechatronic Sensors Board For Elvis-li  | 1      |
|       |                  | Ni Prototyping Board For Elvis-li  | 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      |
|       |                  | MATLAB 2019 B (25 Users)   | 1      |
| 2     | ECL-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      |
| 3     | ECL -2           | Digital Multimeter ( Sanwa-CD800a)   | 10     |
|       |                  | Digital Multimeter (Rishab-14S)  | 8      |
|       |                  | DSO-50MHZ (Gwinstek-GDS 1052U)   | 12     |
|       |                  | Function Generator-3 MHZ (Gwinstek-SFG 1013)   | 12     |



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|   |       |   |    |
|---|-------|---|----|
|   |       | 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  |
| 4 | ECL-3 | Project Board, BB12V  | 15 |
|   |       | Power Supply, LQ 6324   | 15 |
|   |       | 8051/251 Single board Computer/Evaluation board with ADP PPIAdapter; 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 | Project Board (ST2610)  | 7  |
|   |       | Three Phase Auto Transformer,3 $\phi$ ,8A (Voltex- 2 &Packard-2)                            | 4  |
|   |       | DC Shunt Generator,3 $\phi$ 0.5HP with AC Induction Drive (Voltex)                          | 2  |
|   |       | Induction Motor,3 $\phi$ 1 HP (Voltex)  | 2  |
|   |       | Induction Motor 3 $\phi$ ,1/4hp (Voltex)  | 1  |
|   |       | Single Phase Transformer, 1KVA (Packard)  | 2  |
|   |       | Single Phase Transformer, 1KVA (Voltex)   | 2  |
|   |       | 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  |



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|---|-------|--|----|
|   |       | 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 |
|   |       | Single Phase transformer 1Kva  | 1  |
|   |       | DC Power Supply (Aplab)  | 10 |
| 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 | Agilent Digital Storage Oscilloscope (DSO3102A)                                  | 1  |
|   |       | Agilent CSA Spectrum Analyzer (N1996A)   | 1  |
|   |       | Agilent RF Network Analyzer (8714ET)   | 1  |
|   |       | DSP Starter Kit (DSK)  | 2  |
|   |       | Or CAD Simulator   |    |
|   |       | Or CAD15.7 Software CD   | 1  |
|   |       | Software License CD  |    |
|   |       | Security Plug  |    |
|   |       | Microcontroller Development Tools (KEIL)   | 8  |



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|  |  |    |
|--|--|----|
|  | Bloom with DSP CDs   | 15 |
|  | Bluetooth Comm. Training Systems<br>(BT2001)   | 1  |
|  | Desktop computer Dell with Intel core i5<br>processor, 8GB RAM, 1TB HDD and 19-inch<br>Monitor | 14 |
|  | Digital Storage Oscilloscope 60Mhz<br>(TDS2002)  | 7  |
|  | 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  |
|  | 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  |
|  | Digital Storage Oscilloscope 100Mhz<br>(GDS-1102U)   | 3  |
|  | Project board (ST2610)   | 7  |
|  | Writing Tab (Wacom)  | 1  |
|  | 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<br>high speed                               | 1  |
|  | Digital output module, Transistor output Source<br>type, 32 points                             | 1  |
|  | 4 channel Analog Output Module   | 1  |
|  | 4 channel Analog Input, Module   | 1  |
|  | Servo amplifier for three axis, 400W each  | 1  |



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|----|--------------|--|------------|
|    |              | 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  | <b>ECL-7</b> | 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          |
|    |              | 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          |
| 9  | <b>ECL-8</b> | Dell Computer Systems Core i5-6500 cup @3.00 GHz with 8GB RAM and 1 TB HDD (Windows 10 professional) | 6          |
|    |              | Fire Bird Robot with Adapter   | 4          |
|    |              | Spart V Robot with Adapter   | 5          |
|    |              | Fire Bird Adapter Board (V P89V51RD2)  | 3          |
|    |              | Fire Bird Adapter Board (V LPC2148)  | 5          |
|    |              | Wicomm-T (IF & Base Band)  | 2          |
|    |              | Servo Motor Based Gripper Kit  | 2          |
| 10 | <b>ECL-9</b> | Dell Computer Systems Core i5-6500 cup @3.00 GHz with 8GB RAM and 1 TB HDD (Windows 10 professional) | 14         |
|    |              | <b>Total</b>   | <b>814</b> |



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## Department of Humanities and Social Sciences 2019-20

| S. No. | Name of theLab     | Major equipment in the laboratories  | Unit/s       |
|--------|--------------------|--|--------------|
| 1      | Language Lab (HSS) | Hardware :- Dell Precision Tower 3420 Workstation<br>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, RAM8GB, 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           |
|        |                    | <b>Software :- Business Writing (CLARITY ENGLISH)</b>  | 33           |
|        |                    | Tense Buster (CLARITY ENGLISH)   | 33           |
|        |                    | Clarity S.NET  | 30           |
|        |                    | SPSS (24)  | 3            |
|        |                    | Microsoft office   | 33           |
|        |                    | Adobe reader 9.0   | 33           |
|        |                    |  | <b>Total</b> |

  
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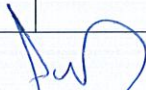


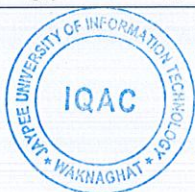



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Jaypee University of Information Technology  
Wahnaghat, Distt. Solan (H.P.)

## Department of Physics and Materials Science 2019 -20

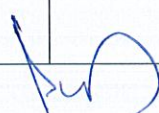
| S. No.                            | Name of the Lab | Major equipment in the laboratories               | Unit/s             |
|-----------------------------------|-----------------|---|--------------------|
| 1                                 | Physics Lab 1   | Acoustic optical effect                           | 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   | Fresnel s Bi-prism set up                         | 2                  |
|                                   |                 | Magnetic Susceptibility set up                    | 2                  |
|                                   |                 | 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                 |
|                                   |                 | 3   | Research (CVD Lab) |
| 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               |   |                    |

  
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|   |                              |  |   |
|---|------------------------------|--|---|
|   |                              | 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 |
| 4 | <b>Material science Lab</b>  | Vacuum coating unit                      | 1 |
|   |                              | Electron Beam Gun power supply           | 1 |
|   |                              | Rotary Flask shaker                      | 1 |
|   |                              | L.G Refrigerator                         | 1 |
|   |                              | Magnetic stirrer with hot plate(2ltr)    | 1 |
|   |                              | Magnetic stirrer (2ltr)                  | 1 |
|   |                              | Magnetic stirrer (2ltr)                  | 1 |
|   |                              | Ultra sonic cleaner                      | 1 |
|   |                              | Hydrogen gas cylinder                    | 1 |
| 5 | <b>Characterizations Lab</b> | 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,scm)           | 1 |
|   |                              | Mask flow controller(0-1,sipm)           | 1 |
|   |                              | Gas mixing chamber & sensing             | 1 |
|   |                              | Argon gas meter                          | 1 |
|   |                              | LS-55photoluminescence spectrophotometer | 1 |
|   |                              | Hydrogen gas cylinder                    | 2 |
|   |                              | Nitrogen gas cylinder                    | 1 |
|   |                              | Magnetic stirrer(1mlh)                   | 1 |
|   |                              | Systronic signal pulse generator         | 2 |
|   |                              | Carbon monoxide                          | 1 |
|   |                              | NO <sub>2</sub> cylinder                 | 1 |
|   |                              | CH <sub>4</sub> cylinder                 | 1 |
| 6 | <b>2-D Lab</b>               | 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 |


  
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|   |  |                                      |            |
|---|--|--------------------------------------|------------|
|   |  | 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 | <b>Synthesis Lab</b>                   | 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 | <b>Electrical Characterization Lab</b> | High temp. two probe setup           | 1          |
|   |  | Hydraulic press                      | 1          |
|   |  | Electrical balance                   | 1          |
|   |  | Digital D.C microvoltmeter           | 1          |
|   |  | 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 | <b>Antenna Lab</b>                     | VNA                                  | 1          |
|   |  | PCB prototype machine                | 1          |
|   |  | <b>Total</b>                         | <b>218</b> |

  
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