

**DEPARTMENT OF H&S**

**LAB: ENGINEERING PHYSICS LAB**

| S.NO | EQUIPMENT NAME                         | AVAILABLE QUANTITY |
|------|----------------------------------------|--------------------|
| 1    | Torsional Pendulum                     | 5                  |
| 2    | Brass Disc                             | 5                  |
| 3    | Rigid Clamp                            | 4                  |
| 4    | Meter Scale                            | 4                  |
| 5    | Stop Watch                             | 2                  |
| 6    | Vernier Callipers                      | 5                  |
| 7    | Screw Guage                            | 5                  |
| 8    | Steel Wire                             | 1                  |
| 9    | Melde's Apparatus                      | 3                  |
| 10   | Electrically Excited Tuning Fork       | 3                  |
| 11   | Fork Setup With Pulley                 | 3                  |
| 12   | DC Power Supply                        | 3                  |
| 13   | Sweing Thread                          | 1                  |
| 14   | Spectrometer                           | 5                  |
| 15   | Prisms                                 | 3                  |
| 16   | Reading Lens                           | 4                  |
| 17   | Mercury Vapour Lamp With Power Supply  | 1                  |
| 18   | Sodium Vapour Lamp With Transformer    | 1                  |
| 19   | Diffraction Gratings                   | 5                  |
| 20   | Grating Stands                         | 5                  |
| 21   | Tape                                   | 2                  |
| 22   | LASER Source                           | 4                  |
| 23   | Newton's Rings Apparatus               | 2                  |
| 24   | Plano Convex Lens                      | 2                  |
| 25   | Glass Plate With Travelling Microscope | 2                  |
| 26   | Optical Fiber Kits                     | 2                  |
| 27   | Connecting Wires                       | 1                  |
| 28   | RC Circuit Kits                        | 2                  |
| 29   | LED & LASER KITS                       | 3                  |
| 30   | Copper Glass                           | 3                  |
| 31   | Black Paper                            | 1                  |
| 32   | Digital Balance                        | 1                  |
| 33   | Coupled Oscillator                     | 1                  |
| 34   | Bench Type                             | 1                  |
| 35   | Suspended Rods                         | 1                  |

|    |                     |   |
|----|---------------------|---|
| 36 | Suspended Weights   | 1 |
| 37 | Stop clocks Digital | 2 |
| 38 | Iron Stand          | 1 |
| 39 | LCR Circuit Kits    | 2 |
| 40 | Function Generator  | 2 |

**LAB: APPLIED PHYSICS LAB**

| S.NO | EQUIPMENT NAME               | AVAILABLE QUANTITY |
|------|------------------------------|--------------------|
| 1    | Rigid Clamp                  | 1                  |
| 2    | DC Power Supply              | 3                  |
| 3    | Optical Fiber Kits           | 2                  |
| 4    | RC Circuit Kits              | 5                  |
| 5    | LED & LASER KITS             | 4                  |
| 6    | Digital Balance              | 1                  |
| 7    | LCR Circuit Kits             | 3                  |
| 8    | Function Generator           | 2                  |
| 9    | Energy Band Gap Kits         | 3                  |
| 10   | Thermometer                  | 3                  |
| 11   | Coconut oil                  | 1                  |
| 12   | Solar cell kit               | 3                  |
| 13   | Hall effect setup            | 1                  |
| 14   | Photo electric effect set up | 1                  |
| 15   | Stewart gees apparatus setup | 3                  |

**ENGINEERING CHEMISTRY LAB  
LIST OF CONSUMABLES**

| S.NO | NAME OF THE CHEMICAL          | QUANTITY |
|------|-------------------------------|----------|
| 1    | Acetic Acid                   | 5L       |
| 2    | Acetic anhydride              | 3L       |
| 3    | Ammonia                       | 3L       |
| 4    | Ammonium thiocyanate          | 2.5KG    |
| 5    | Ammonium ferrous sulphate     | 2.0KG    |
| 6    | Buffer tablets                | 30*5     |
| 7    | Bleaching powder              | 500gm    |
| 8    | Copper sulphate penta hydrate | 1KG      |
| 9    | Con Hydrochloric acid         | 4L       |
| 10   | Con Sulphuric acid            | 5L       |
| 11   | Con Nitric acid               | 2.5L     |
| 12   | Calcium sulphate              | 500gm    |
| 13   | Calcium bicarbonate           | 1KG      |

|    |                        |         |
|----|------------------------|---------|
| 14 | Diphenyl amine         | 50gm    |
| 15 | Eriochrome Black T     | 100gm   |
| 16 | EDTA Disodium salt     | 2.5KG   |
| 17 | Ferric chloride        | 2.0KG   |
| 18 | Ferrous Sulphate       | 500gm   |
| 19 | Formaldehyde           | 2.5L    |
| 20 | Magnesium sulphate     | 2.0KG   |
| 21 | Oxalic acid            | 2KG     |
| 22 | Ortho Phosphoric acid  | 2.0L    |
| 23 | Ethyl alcohol          | 10L     |
| 24 | Amberlite IR 120       | 500gm   |
| 25 | Amberlite IRA 400      | 500gm   |
| 26 | Potassium Iodide       | 2.5KG   |
| 27 | Potassium dichromate   | 2.0KG   |
| 28 | Potassium permanganate | 4.0KG   |
| 29 | Pyrolusite             | 105KG   |
| 30 | Phenol                 | 1.0KG   |
| 31 | Potassium thio cyanate | 2.5KG   |
| 32 | Sodium nitrate         | 500gm   |
| 33 | Sodium hydroxide       | 3.0KG   |
| 34 | Stannous chloride      | 100gm   |
| 35 | Starch                 | 1.5KG   |
| 36 | Sodium oxalate         | 500gm   |
| 37 | Sodium thio sulphate   | 3.0KG   |
| 38 | Sulphur powder         | 105KG   |
| 39 | Mercuric chloride      | 250gm   |
| 40 | Phenolphthalein        | 100mL   |
| 41 | Urea                   | 500gm   |
| 42 | Filter papers          | 2rheems |

### LIST OF NON CONSUMABLES

| S.NO. | NAME OF THE EQUIPMENT | QUATITY AVAILABLE |
|-------|-----------------------|-------------------|
| 1     | Digital Colorimeter   | 8                 |
| 2     | Digital Conductometer | 7                 |
| 3     | Digital Potentiometer | 5                 |
| 4     | Burette               | 70                |
| 5     | Pipette               | 90                |
| 6     | Beaker 100mL          | 38                |
| 7     | Beaker 150mL          | 15                |
| 8     | Beaker 250mL          | 63                |

|    |                            |    |
|----|----------------------------|----|
| 9  | Beaker 500mL               | 31 |
| 10 | Conical flask 100mL        | 42 |
| 11 | Conical flask 150mL        | 28 |
| 12 | Conical flask 250mL        | 43 |
| 13 | Standard flask 100mL       | 20 |
| 14 | Standard flask 500mL       | 24 |
| 15 | Standard flask 1000mL      | 11 |
| 16 | Measuring cylinders 10mL   | 25 |
| 17 | Measuring cylinders 100mL  | 20 |
| 18 | Measuring cylinders 1000mL | 27 |
| 19 | Viscometers                | 50 |
| 20 | Stalgnometer               | 40 |
| 21 | Funnels                    | 40 |
| 22 | Glass rod                  | 30 |
| 23 | Droppers                   | 30 |
| 24 | Wash Bottles               | 16 |
| 25 | Burette Stands             | 30 |
| 26 | Analytical weigh box       | 4  |
| 27 | Stop Clocks                | 7  |
| 28 | Tripod Stands              | 30 |
| 29 | Wire Gauge                 | 20 |
| 30 | Copper Water Bath          | 20 |
| 31 | Reagent Bottles            | 25 |
| 32 | Spatulas                   | 30 |
| 33 | Digital electric Balance   | 2  |
| 34 | Watch glasses              | 30 |
| 35 | Analytical Balance         | 1  |
| 36 | Salt Bridge                | 10 |
| 37 | Iodine flasks              | 20 |
| 38 | Column                     | 1  |

#### LAB: ELCS LAB

| S.NO. | NAME OF THE EQUIPMENT | QUATITY AVAILABLE |
|-------|-----------------------|-------------------|
| 1     | MASTER CONSOLE        | 1                 |
| 2     | STUDENT CONSOLE       | 30                |
| 3     | MULTI MEDIA COMPUTERS | 30                |
| 4     | HEAD PHONES           | 30                |
| 5     | PLATFORM SOFT WARE    | 1                 |
| 6     | LEARTNING SOFT WARE   | 1                 |
| 7     | PUBLIC ADDRESS SYSTEM | 1                 |

|    |                |   |
|----|----------------|---|
| 8  | TV             | 1 |
| 9  | PROJECTOR      | 1 |
| 10 | DIGITAL STEREO | 1 |
| 11 | CAMCORDER      | 1 |

**LAB: ICS LAB**

| S.NO. | NAME OF THE EQUIPMENT | QUATITY AVAILABLE |
|-------|-----------------------|-------------------|
| 1     | MULTI MEDIA COMPUTER  | 1                 |
| 2     | HEAD PHONES           | 1                 |
| 3     | PUBLIC ADDRESS SYSTEM | 1                 |
| 4     | TV                    | 1                 |
| 5     | DIGITAL STEREO        | 1                 |
| 6     | CAMCORDER             | 1                 |
| 7     | ROUND TABLES          | 6                 |
| 8     | MOVABLE CHAIRS        | 30                |