**Department of Electronics & Telecommunication Engineering**

1. **Equipment available**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **SN** | **Name of equipment** | **Number** | **Year of purchase** | **Cost/unit** | **Total cost** | **Remarks** |
| **Name of Laboratory: Electronic & Instrumentation Lab** |
| 1 | Experimental Kit To Study Water Level Measurment | 01 No. | 2016-17 | 9372=00 | 9372=00 |  |
| 2 | KELVINS BRIDGE TRAINER | 01 No. | 2016-17 | 3182=00 | 3182=00 |  |
| 3 | HAY'S BRIDGE TRAINER | 01 No. | 2016-17 | 3182=00 | 3182=00 |  |
| 4 | MAXWELL'S BRIDGE TRAINER | 01 No. | 2016-17 | 3182=00 | 3182=00 |  |
| 5 | DESAUTY'S AND SCHERING BRIDGE TRAINER | 01 No. | 2016-17 | 3182=00 | 3182=00 |  |
| 6 | OWEN'S BRIDGE TRAINER | 1 No. | 2016-17 | 3182=00 | 3182=00 |  |
| 7 | ANDERSON BRIDGE TRAINR | 1 No. | 2016-17 | 3182=00 | 3182=00 |  |
| 8 | Experiment Kit To Studdy Temperature Transducre | 02 No. | 2016-17 | 4912=00 | 9824=00 |  |
| 9 | EXPERIMENTAL KIT FOR HIGH RESISTANT MEASUERMENT | 01 No. | 2016-17 | 3995=00 | 3995=00 |  |
| 10 | EXP. KIT STUDY LINEAR VARIABLE DIFFERENTIAL TRANSFORMER ( LVDT ) | 02 No. | 2016-17 | 8966=50 | 17933=00 |  |
| 11 | WIDE FREAUELY RANGE FUNCTION GENRATORE | 04 No. | 2016-17 | 8374=00 | 33496=00 |  |
| 12 | VARIABLE SINGLE DC POWER SUPPLY 0-15V/1-A | 03 No. | 2016-17 | 3500=00 | 10500=00 |  |
| 13 | PORTABLE LCR METER ( LCR ) | 01 No. | 2016-17 | 11293=50 | 11293=50 |  |
| 14 | WHEATSTONE BRIDGE | 01 No. | 2016-17 | 2900=00 | 2900=00 |  |
| 15 |  TRANSDUCER TRAINER M/S Sincom Sindhu Electronic & comm.Pvt. Ltd.Nagpur | 1 No. | 2016-17 | 18750 = 00 | 18750 = 00 |  |
| 16 | 3- 1/2 PORTABLE DIGITAC MULTIMETER  | 02 No. | 2016-17 | 1186=00 | 2372=40 |  |
| 17 | Experimental Kit To Studdy Water Level Measurment | 01 No. | 2016-17 | 9372=00 | 9372=00 |  |
| 18 | KELVINS BRIDGE TRAINER | 01 No. | 2016-17 | 3182=00 | 3182=00 |  |
| 19 | HAY'S BRIDGE TRAINER | 01 No. | 2016-17 | 3182=00 | 3182=00 |  |
| 20 | MAXWELL'S BRIDGE TRAINER | 01 No. | 2016-17 | 3182=00 | 3182=00 |  |
| **Name of Laboratory:Communication Lab** |
| 1 | ASK / FSK / PSK MODULATION & DEMODULATION TRAINER  | 03 No. | 2016-17 | 14000=00 | 42000=00 |  |
| 2 | PAM/ PWM / PPM MODULATION & DEMODULATION TRAINER  | 03 No. | 2016-17 | 13000=00 | 39000=600 |  |
| 3 | AM SUPERHETRODYNE RADIO RECIVER | 01 No. | 2016-17 | 10400=00 | 10400=00 |  |
| 4 | DIFFERNTIAL PULSE COD MODULATION  | 03 No. | 2016-17 | 11600=00 | 34800=00 |  |
| 5 | SSB - SC MODULATION DEMODULATION  | 03 No. | 2016-17 | 14960=00 | 44880=00 |  |
| 6 | DSB - SC MODULATION DEMODULATION  | 03 No. | 2016-17 | 9600=00 | 28800=00 |  |
| 7 | DELTA ADPTIVE MODULATION & DEMODULATION  | 01 No. | 2016-17 | 19000=00 | 19000=00 |  |
| 8 | FM TRANSMITTER RECEIVER KIT  | 02 No. | 2016-17 | 18400=00 | 36800=00 |  |
| 9 | AMPLITUDE MODULATION DEMODULATION  | 03 No. | 2016-17 | 3760=00 | 11280=00 |  |
| 10 | DPSK MODULATION DEMODULATION TRAINER KIT | 03 No. | 2016-17 | 12800=00 | 38400=00 |  |
| 11 | FREQ. MODULATION DEMODULATION USING PLL. | 03 No. | 2016-17 | 4480=00 | 13440=00 |  |
| 12 | DSB TRANSMITER RECCIVER KIT M/S Sincom Sindhu Electronic & comm.Pvt. Ltd.Nagpur | 1 No. | 2016-17 | 10030=00 | 10030=00 |  |
| 13 | AM/FM/PM MODULATION & DMODULATION TRAINER Sincom Sindhu Electronic & comm.Pvt. Ltd.Nagpur | 1 No. | 2016-17 | 13570=00 | 13570=00 |  |
| 14 | PRE. EMPHASIS & DE-EMPHASIS EXP. KIT M/S Sincom Sindhu Electronic & comm.Pvt. Ltd.Nagpur | 1 No. | 2016-17 | 4763=00 | 4763=00 |  |
| 15 |  PULSE AMPLITUDE MODULATION & DEMODULATION KIT M/S Sincom Sindhu Electronic & comm.Pvt. Ltd.Nagpur | 1 No. | 2016-17 | 6543=00 | 6543=01 |  |
| 16 |  SSB TRANSMITER / RECCIVER KIT M/S Sincom Sindhu Electronic & comm.Pvt. Ltd.Nagpur | 1 No. | 2016-17 | 14396=00 | 14396=00 |  |
| 17 | FM MODULATION & DEMODULATION KIT USING PLL M/S Sincom Sindhu Electronic & comm.Pvt. Ltd.Nagpur | 1 No. | 2016-17 | 5074=00 | 5074=00 |  |
| 18 |  AUTOMATIC GAIN CONTROL CKT M/S Sincom Sindhu Electronic & comm.Pvt. Ltd.Nagpur | 1 No. | 2016-17 | 5127=00 | 5127=00 |  |
| 19 |  FM TRANSMITTER / RECEIVER TRAINER KIT M/S Sincom Sindhu Electronic & comm.Pvt. Ltd.Nagpur | 1 No. | 2016-17 | 23954=00 | 23954=00 |  |
| 20 |  AM TRANSMITTER / RECEIVER TRAINER KIT M/S Sincom Sindhu Electronic & comm.Pvt. Ltd.Nagpur | 1 No. | 2016-17 | 23482=00 | 23482=00 |  |
| **Name of Laboratory:Computer Lab** |
| 1 | HP 280 G3 DESKTOP COMPUTER  | 17 No. | 2016-17 | 66475=00 | 1130075=00 |  |
| 2 | LAPTOP HP Core I 5 Generation - 6 Ram 1.7 GH2 DOR 31- 4 GB ,HDP ITB,Screen 15.06 inches, Preloaded 05 Window 7 or obve m/s Digitech Control System Pune | 01 No. | 2016-17 | 47250=00 | 47250=00 |  |
| 3 | LCD Porjector Screen Wall Mornted -Size- 4\* 6\* M/S Yesh Engineering Sales Nagpur | 01 No. | 2016-17 | 2668=00 | 2668=00 |  |
| 4 | Scanner Canon Lide 110 Scanjet Photo scanner Paper size A-4 | 01 No. | 2016-17 | 3050=00 | 3050=00 |  |
| 5 | SAMSUNG LASER PRINTER -1676  | 02 No. | 2016-17 | 5500=00 | 11000=00 |  |
| 6 | LCD Porjector 3600 Liners XGA- M/S Dwarka Enterprises Ramkrushna Tawer Lxmi Nagar Nagpur | 01 No. | 2016-17 | 44811=00 | 44811=00 |  |
| 7 | HP 280 G3 DESKTOP COMPUTER  | 17 No. | 2016-17 | 66475=00 | 1130075=00 |  |
| **Name of Laboratory:Analog & Digital Lab** |
| 1 | OPERATIONAL AMPLIFIRE TRAINER  | 06 No. | 2016-17 | 3972=00 | 23832 =00 |  |
| 2 | ASTABLE & MONOSTABLE MULTIVIBRATOR EXPERIMENTAL KIT | 04 No. | 2016-17 | 2043=00 | 8172=00 |  |
| 3 | OP - AMG. 741 CHARA. & APPLICA. TRAINER M/S Sincom Sindhu Electronic & com. Ltd, Nagpur | 01 No. | 2016-17 | 8496=00 | 8496=00 |  |
| 4 | PLL 565 TRAINER KIT M/S Sinam Sindhu Electronic & comm. Ltd. | 01 No. | 2016-17 | 6254=00 | 6254=00 |  |
| 5 | ADC / DAC TRAINER KIT M/S Sincom Sindhu Electronic & comm.Pvt. Ltd.Nagpur | 1 No. | 2016-17 | 7050=00 | 7050=00 |  |
| 6 | OPERATIONAL AMPLIFIRE TRAINER  | 06 No. | 2016-17 | 3972=00 | 23832 =00 |  |
| **Name of Laboratory:MICRO** |
| 1 | MICROPROCESSOR KIT 8085 | 02 No. | 2016-17 | 10620=00 | 21240=00 |  |
| 2 | DSP DEVELOPMENT BOARD  | 01 No. | 2016-17 | 23500=00 | 23500=00 |  |
| 3 | 8086 TRAINER KIT  | 02 No. | 2016-17 | 16000=00 | 32000=00 |  |
| 4 | 8051 EVALUATION BOARD  | 03 No. | 2016-17 | 11200=00 | 33600=00 |  |
| 5 | ADD ON CARD FOR 8086 TRAINER KIT | 02 Set. | 2016-17 | 9600=00 | 19200=00 |  |
| 6 |  8086 MICROPROCESSOR TRAINER KIT M/S Sincom Sindhu Electronic & comm.Pvt. Ltd.Nagpur | 1 No. | 2016-17 | 19500=00 | 19500=00 |  |
| 7 | 8051 EVALUATION BOARD KIT M/S Sincom Sindhu Electronic & comm.Pvt. Ltd.Nagpur | 1 No. | 2016-17 | 10856=00 | 10856=00 |  |
|  |  |  |  |  |  |  |
| **Name of Laboratory:EWS** |
| 1 | DISCRETE COMPONANT TRAINER M/S Sincom Sindhu Electronic & comm.Pvt. Ltd.Nagpur | 1 No | 2016-17 | 11200=00 | 11200=00 |  |
| **Name of Laboratory:ELECRONICS DEVICES AND CIRCUIT** |
| 1 | Dual D. C. Regulated Power Supply | 02 No. | 2016-17 | 4941=00 | 9962=00 |  |
| 2 | Regulated DC Power Supply ( 2 Amy ) | 02 No. | 2016-17 | 3900=00 | 7800=00 |  |
| 3 | Regulated DC Power Supply ( 4 Amy ) | 02 No. | 2016-17 | 5391=00 | 10782=00 |  |
| 4 | DIODE CHARACTERISTICS TRAINER 5EXPERIMENTAL KIT | 04 No. | 2016-17 | 2724=00 | 10896=00 |  |
| 5 | RECTIFIR TRAINER EXPERIMENTAL KIT | 04 No. | 2016-17 | 1816=00 | 7264=00 |  |
| 6 | TRANSISTOR CHARACTERISTICS TRAINER EXPERIMENTAL KIT  | 04 No. | 2016-17 | 2724=00 | 10896=00 |  |
| 7 | HARTLEY & COLPITTS OSCILATOR EXPERIMENTAL KIT  | 04 No. | 2016-17 | 2043=00 | 8172=00 |  |
| 8 | DIGITAL STORAGE OSCILLOSCOPE , 40 MH2 | 02 No. | 2016-17 | 22230=00 | 44460=00 |  |
| 9 | EXPERIMENTAL KIT To Study BATERY CHARGER | 02 No. | 2016-17 | 6696=50 | 13393=00 |  |
| 10 | KIT TO STUDY FULL WAVE RECTIFIER | 02 No. | 2016-17 | 9421=00 | 9421=00 |  |
| 11 | PHASE SHIFT OSCILLAOR WITH POWER SUPPLY | 04 No. | 2016-17 | 3007=75 | 12031=00 |  |
| 12 | WIEN BRIDGE OSCILLATOR WITH POWER SUPPLY | 04 No. | 2016-17 | 3007=75 | 12031=00 |  |
| 13 | 1 MHZ MULTI.- WAVEFORM SINGLE ( FUNCTION ) GENTATOR | 04 No. | 2016-17 | 5450=00 | 21800=00 |  |
| **Name of Laboratory:DCFM** |
| 1 | MULTIPLEXER & DEMULTIPLEXER TRAINER | 06 No | 2016-17 | 1703=00 | 10218=00 |  |
| 2 | ARITHMETEC & LOGIC UNIT TRAINER | 06 No. | 2016-17 | 2043=00 | 12258= 00 |  |
| 3 | LOGIC GATES TRAINER | 06 No. | 2016-17 | 1703=00 | 10218=00 |  |
| 4 | ENCODER DECODER TRAINER ( DECODER & MULTIMETER ) | 06 No. | 2016-17 | 1703=00 | 10218=00 |  |
| 5 | BREAD BOARD TRAINER  | 04 No. | 2016-17 | 3098=00 | 12392=00 |  |
| 6 | LOGIC ANALYZAR 45 CHANNEL | 01 No. | 2016-17 | 29170=00 | 29170=00 |  |
| 7 | DTMF ENCODER & DECODER TRAINER KIT | 02 No. | 2016-17 | 17600=00 | 35200=00 |  |
| **Name of Laboratory:DCFM** |
| **1** | MULTIPLEXER & DEMULTIPLEXER TRAINER | 06 No | 2016-17 | 1703=00 | 10218=00 |  |
| **2** | ARITHMETEC & LOGIC UNIT TRAINER | 06 No. | 2016-17 | 2043=00 | 12258= 00 |  |
| **3** | LOGIC GATES TRAINER | 06 No. | 2016-17 | 1703=00 | 10218=00 |  |
| **4** | ENCODER DECODER TRAINER ( DECODER & MULTIMETER ) | 06 No. | 2016-17 | 1703=00 | 10218=00 |  |
| **5** | BREAD BOARD TRAINER  | 04 No. | 2016-17 | 3098=00 | 12392=00 |  |
| **6** | LOGIC ANALYZAR 45 CHANNEL | 01 No. | 2016-17 | 29170=00 | 29170=00 |  |
| **7** | DTMF ENCODER & DECODER TRAINER KIT | 02 No. | 2016-17 | 17600=00 | 35200=00 |  |
| **Name of Laboratory:PDM** |
| **1** | UNDERSTANDING CHARACTERISTCS OF DIAC & TRIAC | 02 No. | 2016-17 | 3292=00 | 6584=00 |  |
| **2** | Experimental Kit To Study Characterstic of Mosfet & Fet & UJT | 04 No. | 2016-17 | 2724=00 | 10896=00 |  |
| **3** | EXPERIMENTAL KIT TO STUDY OF V-I CHARACTERISTICS ( GATE DRIVE ) TRIGGEREING CIRCUITS FOR MOSFIT & IGBT | 02 No. | 2016-17 | 5902=00 | 11804=00 |  |
| **4** | POWER FACTOR METER | 01 No. | 2016-17 | 2656=00 | 2656=00 |  |
| **5** | SINGALE ELEMENT WATTMETER | 01 No. | 2016-17 | 1969=50 | 1969=50 |  |
| **6** | SINGALE ELEMENT DYNAMOMETER TYPE WATTMETER | 01 No. | 2016-17 | 1969=50 | 1969=50 |  |
| **7** | EXP. KIT FOR STUDING IGBT CHARACTERISTICS  | 02 No. | 2016-17 | 3000=00 | 6000=00 |  |
| **8** | EXP. KIT To STUDING SERIES INVERTOR USING ( SCR ) | 02 No. | 2016-17 | 5005=50 | 10011=00 |  |
| **9** | EXP. KIT To SINGLE PHASE CONVERTOR | 02 No. | 2016-17 | 190391=00 | 38078=00 |  |
| **10** | EXP. KIT For STUDY TRIGGERING CKT. | 02 No. | 2016-17 | 3120=00 | 6240=00 |  |
| **11** | EXP. KIT To STUDY PARALLEL INVERTER | 02 No. | 2016-17 | 4160=00 | 8320=00 |  |
| **12** | EXP. KIT FOR STUDYING STEP-UP CHOPPER | 02 No. | 2016-17 | 5200=00 | 10400=00 |  |
| **13** | EXP. KIT FOR STUDYING STEP DOWN CHOPPER | 02 No. | 2016-17 | 5200=00 | 10400=00 |  |