










# BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

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## EEE DEPARTMENT LABORATORY DETAILS - B.TECH-POWER ELECTRONICS LAB

| SL NO | ROOM NUMBER | NAME OF THE EQUIPMENT  | MAKE                 | MODEL         | TOTAL UNITS AVAILABLE | EQUIPMENT PHOTO   |
|-------|-------------|--|----------------------|---------------|-----------------------|---|
| 1     | M-118       | SCR TRIGGERING TRAINER KIT i. CRO ii. Loading rheostat iii. Digital multimeter                         | Frax Electro-systems | RCF-800,581   | 1                     |    |
| 2     | M-118       | STUDY OF CHARACTERISTICS OF SCR & MOSFET TRAINER KIT i. Regulated DC power supply ii. Multimeter       | Frax Electro-systems | CSU-579,580   | 1                     |    |
| 3     | M-118       | SINGLE PHASE FULL CONVERTER TRAINER KIT i. R and RL load ii. CRO and CRO probes iii. Multimeter        | Frax Electro-systems | SFC-541       | 1                     |  |
| 4     | M-118       | SINGLE PHASE AC VOLTAGE CONTROLLER TRAINER KIT i. Multimeter ii. R and RL load iii. CRO and CRO probes | Frax Electro-systems | SAVC-587, 793 | 1                     |  |
| 5     | M-118       | SINGLE PHASE CYCLO CONVERTER TRAINER KIT i. CRO and CRO probes ii. Multimeter                          | Frax Electro-systems | SCYP-664      | 1                     |  |
| 6     | M-118       | SINGLE PHASE SEMI CONVERTER TRAINER KIT i. RL load ii. CRO and CRO probes iii. Multimeter              | Frax Electro-systems | SCF-557       | 1                     |  |

|    |       |  |                      |               |   |   |
|----|-------|--|----------------------|---------------|---|---|
| 7  | M-118 | SINGLE PHASE DUAL CONVERTER TRAINER KIT i. Rheostat ii. connecting wires iii. Multimeter                   | Frax Electro-systems | SDP           | 1 |    |
| 8  | M-118 | BOOST CHOPPER TRAINER KIT i. CRO ii. voltmeter (MC)-2  | Frax Electro-systems | TRAINER       | 1 |    |
| 9  | M-118 | SINGLE PHASE PARALLEL INVERTER TRAINER KIT i. RPS ii. CRO and CRO probes iii. Multimeter                   | Frax Electro-systems | PI-573,574    | 1 |    |
| 10 | M-118 | FORCED COMMUTATION CIRCUITS TRAINER KIT i. CRO ii. CRO probes iii. Multimeter                              | Frax Electro-systems | FCU-568       | 1 |    |
| 11 | M-118 | DC JONES CHOPPER TRAINER KIT WITH R AND RL LOAD i. CRO ii. CRO probes iii. Multimeter                      | Frax Electro-systems | SDCP-570, 567 | 1 |   |
| 12 | M-118 | THREE PHASE HALF CONTROLLED BRIDGE CONVERTER TRAINER KIT WITH R LOAD i. CRO ii. CRO probes iii. Multimeter | Powertronics         | 3572          | 1 |  |
| 13 | M-118 | SINGLE PHASE SERIES INVERTER TRAINER KIT i. CRO ii. CRO probes iii. Multimeter                             | Frax Electro-systems | SI-660,661    | 1 |  |
| 14 | M-118 | SINGLE BRIDGE CONVERTER TRAINER KIT WITH R AND RL LOAD i. CRO ii. CRO probes iii. Multimeter               | Frax Electro-systems | SCF-557       | 1 |  |

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|----|-------|--|-----------|-----------------|----|---|
| 15 | M-206 | Computers with Processor: Minimum i3 processor E7500(2.93GHZ), RAM:4GB, Hard Disk:500 GB Micro Soft licensed Operating System. | DELL      | Core I3         | 17 |  |
| 16 | M-206 | MATLAB software package  | MATHWORKS | MATLAB 2018     | 30 |  |
| 17 | M-206 | PSPICE Software  | CADENCE   | 16.6 Lite S-022 | 15 |  |