

DARBHANGA COLLEGE OF ENGINEERING

ELECTRICAL & ELECTRONICS ENGINEERING DEPARTMENT

1. BEE LAB

Package Code: TEQIP- III/BH/dced/159

Package Name: EEE P1

SL. No.	Details of instruments / equipment	Quantity
1.	Motor Braking Method System AC output 0 to 270V / 3 Amp. DC output 0 to 230V / 3 Amp. DC ammeter panel DC Ammeter (0-5A) with polarity protection diode	01

Note: Detailed specification of the items will be attached in the invitation letter.

Package Code: TEQIP- III/BH/dced/160

Package Name: EEE P2

SL. No.	Details of instruments / equipment	Quantity
1.	House/ Commercial Wiring Installation Trainer Input 230VAC, Output +12V/5A, 60W	01
2.	Transient Response in R-L-C series and parallel circuit Trainer Kit Input: 1-phase, 230V, 50HZ, AC Supply	06
3.	Analog Ammeter with stand 0-10A DC	10
4.	Analog Ammeter with stand. 0-5A DC	10
5.	Analog Voltmeter 0-600V DC	10
6.	DC-DC Converter kit Voltage: 12vdc Or 24vdc Current: 20A or 10A	02
7.	Inductor, Capacitor, Resistor Passive Electrical Elements (R,L & C) of different types,	2 box

Note: Detailed specification of the items will be attached in the invitation letter.

2. MEASUREMENT AND INSTRUMENTATION LAB

Package Code: TEQIP- III/BH/dced/172

Package Name: EEE P3

SL. No.	Details of instruments / equipment	Quantity
1.	Hay's Bridge Trainer kit Mains supply : 230V \pm 10%, 50Hz Sine wave generator Frequency : 1kHz to 10kHz \pm 10%	02
2.	Lead Lag compensation kit • Kit Working voltage :(220-240) VAC • Input Voltage :24V AC • Input Frequency :50Hz Output Current :0.5Amps	03
3.	Breadboard 840 Points Solderless for DIY Prototyping	15
4.	Resister and Capacitor Set-up Registers in ohm, Kilo-ohm and capacitor in micro-faraday and pF	10

Note: Detailed specification of the items will be attached in the invitation letter.

3. NETWORK LAB

Package Code: TEQIP- III/BH/dced/180

Package Name: EEE P4

SL. No.	Details of instruments / equipment	Quantity
1	Breadboard connecting wire 10 cm male to male breadboard jumper	30
2	Breadboard Dimension (mm) : 75 x 61 x 10	10
3	Capacitor Box- 40 Volt DC, Assorted boxes with different values (1 pico farad to 10K pico farad)	05
4	Tool kit :All in one 108 piece tool kit	01
5	Soldering kit 25 Watt kit with soldering iron, soldering paste flux, soldering iron stand, wire cutter, Desolder	03
6	Inductors :3 Amp decade Inductor boxes with different dials (100 μ H to 99.9mH- 3 boxes), (1mHto 999 mH -3 boxes), (1mHto 9.999mH in steps of1mH 4 boxes)	10
7	Resistance box Assorted resistance boxes with values ranging from 500 ohm to 2 M ohm , 1/4 watts	05
8	U shaped Solderless breadborad jumper wire kit box	10

Note: Detailed specification of the items will be attached in the invitation letter.

4. CONTROL SYSTEM LAB

Package Code: TEQIP- III/BH/dced/186

Package Name: EEE P5

SL. No.	Details of instruments / equipment	Quantity
1.	Temperature control system Supply voltage: 100Vac to 240Vac, 48-62Hz. 5W maximum	01
2	Single phase dual convertor trainer kit PMDC Shunt Motor, 200 V DC, 200 W, 1500 RPM	04

Note: Detailed specification of the items will be attached in the invitation letter.

5. MACHINE LAB-II

Package Code: TEQIP- III/BH/dced/187

Package Name: EEE P6

SL. No.	Details of instruments / equipment	Quantity
1.	3 Phase Alternator with. the panel Input supply : 200 V Fixed DC & 0-200 V Variable DC Type : DC Shunt Rating : 2 HP Type : Salient Pole Motor Rating : 3 HP	01
2	Single phase induction motor with panel Type : Capacitor start Phase : Single Rating : 1 HP	01
3	Dielectric Strength Measurement tool for transformer Single Phase Variac: High Voltage Source: 80kV, 20mA HV Control Motor Type: Servo Motor Voltmeter: upto 100kV	01
4	Three phase induction motor with panel Rheostat 45Ω, 5A Wire wound 1 Auto transformer 440V, 3phase 1 Brake Drum Arrangement Motor type: Squirrel cage rotor	01
5	Three Phase Synchr. Motor With Panel Type: Salient Pole Motor Rating: 3 HP Excitation Voltage: 120 V DC Machine Type : DC Shunt Rating: 2 HP Voltage Rating: 200 V	01

Note: Detailed specification of the items will be attached in the invitation letter.

6. DIGITAL ELECTRONICS LAB

Package Code: TEQIP- III/BH/dced/212

Package Name: EEE P7

SL. No.	Details of instruments / equipment		Quantity
1.	IC no.	Qty	1500
	7404, 7408, 7432, 7400, 7402, 7486, 7476, 7495, 7410, CD4011, CD4001, LS7420	100 each	
	7483, 74153, 74139, 7485, 74148, 7447, 7490 74193, 2114, 555 TIMER	30 each	
2.	LED GREEN, RED, YELLOW		200
3.	Various types of Flip Flops trainer Kit 0-5 V, 0-12 V Variable Power Supply, Input: 1-phase, 230V, 50HZ AC supply		04
4.	Study of shift registers using J-K Flip Flops (7476) trainer Kit 0-5 V, 0-12 V Variable Power Supply, Input: 1-phase, 230V, 50HZ AC supply		04
5.	7 Segment Display		30

Note: Detailed specification of the items will be attached in the invitation letter.