B.E. Electrical and Electronics Engineering (R 2017) Semester – II

EE8261 ELECTRIC CIRCUITS LABORATORY

SI. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Regulated Power Supply: 0 - 15 V D.C	10		
2.	Function Generator (1 MHz)	10		
3.	Single Phase Energy Meter	1		
4.	Oscilloscope (20 MHz).	10		
5.	Digital Storage Oscilloscope (20 MHz)	1		
6.	PC With Circuit Simulation Software (10 Users)	10		
7.	e-Sim/Scilab/Pspice / Matlab /other Equivalent software Package)	10		
8.	Printer	1		
9.	AC/DC - Voltmeters	10		
10.	Ammeters	10		
11.	Multi-meters	10		
12.	Single Phase Wattmeter	3		
13.	Decade Resistance Box, Decade Inductance Box, Decade Capacitance Box (Each)	6		
14.	Circuit Connection Boards	10		

B.E. Electrical and Electronics Engineering (R 2017) Semester – III

EC8311 ELECTRONICS LABORATORY

SI. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Semiconductor devices like Diode, Zener Diode, NPN Transistors, JFET, UJT, Photo diode, Photo Transistor	10		
2.	Resistors, Capacitors and inductors	10		
3.	Necessary digital IC 8	10		
4.	Function Generators	10		
5.	Regulated 3 output Power Supply 5 +_ 15V	10		
6.	CRO	10		
7.	Storage Oscilloscope	1		
8.	Bread boards	10		

B.E. Electrical and Electronics Engineering (R 2017) Semester – III

EE8311 ELECTRICAL MACHINES LABORATORY I

SI. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	DC Shunt Motor with Loading Arrangement	3		
2.	DC Shunt Motor Coupled With Three phase Alternator	1		
3.	Single Phase Transformer	4		
4.	DC Series Motor with Loading Arrangement	1		
5.	DC Compound motor with loading arrangement	1		
6.	Three Phase Induction Motor with Loading Arrangement	2		
7.	Single Phase Induction Motor with Loading Arrangement	1		
8.	DC Shunt Motor Coupled With DC Compound Generator	2		
9.	DC Shunt Motor Coupled With DC Shunt Generator	1		
10.	Tachometer -Digital/Analog	8		
11.	Single Phase Auto Transformer	2		
12.	Three Phase Auto Transformer	1		
13.	Single Phase Resistive Loading Bank	2		
14.	Three Phase Resistive Loading Bank	2		

B.E. Electrical and Electronics Engineering (R 2017) Semester – IV

EE8461 LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY

SI. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Dual ,(0-30V) variable Power Supply	10		
2.	CRO (30MHz)	9		
3.	Digital Multimeter	10		
4.	Function Generator (1 MHz)	8		
5.	IC Tester (Analog)	2		
6.	Bread board	10		
7.	Computer (PSPICE installed)	1		
8.	IC 741/ IC NE555/566/565	10		
9.	Digital IC types	10		
10.	LED	10		
11.	LM317	10		
12.	LM723	10		
13.	ICSG3524 / SG3525	10		
14.	Transistor - 2N3391	10		
15.	Diodes, IN4001, BY126	10		

16.	Zener diodes	10	
17.	Potentiometer	10	
18.	Step-down transformer 230V/12-0-12V	10	
19.	Capacitor	10	
20.	Resistors 1/4 Watt Assorted	10	
21.	Single Strand Wire	10	

B.E. Electrical and Electronics Engineering (R 2017) Semester – IV

EE8411 ELECTRICAL MACHINES LABORATORY II

SI. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Synchronous Induction motor 3HP	1		
2.	DC Shunt Motor Coupled With Three phase Alternator	4		
3.	DC Shunt Motor Coupled With Three phase Slip ring Induction motor	1		
4.	Three Phase Induction Motor with Loading Arrangement	2		
5.	Single Phase Induction Motor with Loading Arrangement	2		
6.	Tachometer -Digital/Analog	8		
7.	Single Phase Auto Transformer	2		
8.	Three Phase Auto Transformer	3		
9.	Single Phase Resistive Loading Bank	2		
10.	Three Phase Resistive Loading Bank	2		
11.	Capacitor Bank	1		

B.E. Electrical and Electronics Engineering (R 2017) Semester – V

CS8383 OBJECT ORIENTED PROGRAMMING LABORATORY

SI. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Systems with either Netbeans or Eclipse	30		

B.E. Electrical and Electronics Engineering (R 2017) Semester – V

EE8511 CONTROL AND INSTRUMENTATION LABORATORY

SI. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	PID controller simulation and learner kit	1		
2.	DSO for capturing transience	1		
3.	Personal computers with control system simulation packages	10		
4.	DC motor - Generator test set-up for evaluation of motor parameters	1		
5.	CRO 30MHz	1		
6.	2MHz Function Generator	1		
7.	Position Control Systems Kit (with manual)	1		
8.	Tacho Generator Coupling set	1		
9.	AC Synchro transmitter& receiver	1		
10.	Digital multi meters, speed and torque sensors	10		
11.	R, L, C Bridge kit (with manual)	1		
12.	Electric heater	1		
13.	Thermometer	1		
14.	Thermistor (silicon type) RTD nickel type	1		
15.	30 psi Pressure chamber (complete set)	1		
16.	Current generator (0- 20mA)	1		
17.	Air foot pump (with necessary connecting tubes)	1		

18.	LVDT20mm core length movable type	1	
19.	CRO 30MHz	1	
20.	Optical sensor	1	
21.	Strain Gauge Kit with Handy lever beam	1	
22.	100gm weights	10	
23.	Flow measurement Trainer kit (1/2 HP Motor, Water tank, Digital Milliammeter, complete set)	1	
24.	Single phase Auto transformer	1	
25.	Watthour meter (energy meter)	1	
26.	Voltmeter Rheostat Stop watch Connecting wires	20	
27.	IC trainer kit	1	
28.	Instrumentation Amplifier kit	1	
29.	Analog - Digital and Digital - Analog converters (ADC and DACs)	1	

B.E. Electrical and Electronics Engineering (R 2017) Semester – VI

EE8661 POWER ELECTRONICS AND DRIVES LABORATORY

SI. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Device characteristics(for SCR, MOSFET, TRIAC,GTO,IGCT and IGBT kit with built in / discrete power supply and meters)	2		
2.	Single phase SCR based half controlled on verter and fully controlled converter along with built-in/separate/firing circuit/module and meter	2		
3.	MOSFET based step up and step down choppers(Built in/ Discrete)	1		
4.	IGBT based single phase PWM inverter module/Discrete Component	2		
5.	IGBT based three phase PWM inverter module/Discrete Component	2		
6.	Switched mode power converter module/Discrete Component	2		
7.	SCR &TRIAC based 1 phase AC controller along with lamp or rheostat load	2		
8.	Cyclo converter kit with firing module	1		
9.	Dual regulated Dc power supply with common ground	5		
10.	Cathode ray Oscilloscope	10		
11.	Isolation Transformer	5		
12.	Single phase Auto transformer	3		
13.	Components (Inductance, Capacitance)	3		
14.	Multimeter	5		
15.	LCR meter	3		
16.	Rheostats of various ranges	2		
17.	Work tables	10		
18.	DC and AC meters of required ranges	20		

B.E. Electrical and Electronics Engineering (R 2017) Semester – VI

EE8681 MICROPROCESSORS AND MICROCONTROLLERS LABORATORY

SI. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	8085 Microprocessor Trainer with Power Supply	15		
2.	8051 Micro Controller Trainer Kit with power supply	15		
3.	8255 Interface board	5		
4.	8251 Interface board	5		
5.	8259 Interface board	5		
6.	8279 Keyboard / Display Interface board	5		
7.	8254 timer counter	5		
8.	ADC and DAC card	5		
9.	AC & DC motor with Controller	5		
10.	Traffic Light Control System	5		

B.E. Electrical and Electronics Engineering (R 2017) Semester – VII

EE8711 POWER SYSTEM SIMULATION LABORATORY

SI. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Personal computers (Intel i3, 80GB, 2GBRAM)	30		
2.	Printer laser	1		
3.	Dot matrix	1		
- 4 .	Server (Intel i5, 80GB, 2GBRAM) (High Speed Processor)	1		
5.	power system simulation software	5		
6.	Compliers: C, C++, VB, VC++	30		

B.E. Electrical and Electronics Engineering (R 2017) Semester – VII

EE8712 RENEWABLE ENERGY SYSTEMS LABORATORY

SI. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Personal computers (Intel i3, 80GB, 2GBRAM)	15		
2.	CRO 30MHz	9		
3.	Digital Multimeter	10		
4.	PV panels - 100W, 24V	1		
5.	Battery storage system with charge and discharge control 40Ah	1		
6.	PV Emulator	1		
7.	Micro Wind Energy Generator module	1		
8.	Potentiometer	5		
9.	Step-down transformer 230V/12-0-12V	5		