

ACADEMIC LESSON PLAN OF SUMMER 2025-26

Discipline: Electrical	Semester: 6 th	Name of the Teaching Faculty: DEBENDRA DEHURY
Subject: CONTROL SYSTEM ENGINEERING (SEC-B)	No. of days/per week class allotted: 4p/week Tutorial: 1p/week	Semester from: 22.12.2025 to 18.04.2026 No. of weeks: 15 weeks
Week	Class/week	Theory Topics
1 st	1 st	1. FUNDAMENTAL OF CONTROL SYSTEM 1.1. Classification of Control system 1.2 Open loop system & Closed loop system and its comparison
	2 nd	1.3. Effects of Feed back 1.4 Standard test Signals(Step, Ramp, Parabolic, Impulse Functions)
	3 rd	1.5. Servomechanism
	4 th	2. MATHEMATICAL MODEL OF A SYSTEM 2.1. Transfer Function & Impulse response, 2.2 Properties, Advantages & Disadvantages of Transfer Function
	5 th	Tutorials
2 nd	1 st	2.3. Poles & Zeroes of transfer Function 2.4 Simple problems of transfer function of network
	2 nd	2.5. Mathematical modeling of Electrical Systems (R, L, C, Analogous systems)
	3 rd	Tutorial
	4 th	3. CONTROL SYSTEM COMPONENTS Components of Control System
	5 th	3.2. Gyroscope, Synchros, Tachometer, DC servomotors, Ac Servomotors.(Contd)
3 rd	1 st	3.2. Gyroscope, Synchros, Tachometer, DC servomotors, Ac Servomotors.(Contd)
	2 nd	3.2. Gyroscope, Synchros, Tachometer, DC servomotors, Ac Servomotors.
	3 rd	Tutorial
	4 th	4. BLOCK DIAGRAM ALGEBRA & SIGNAL FLOW GRAPHS Definition: Basic Elements of Block Diagram
	5 th	4.2. Canonical Form of Closed loop Systems Rules for Block diagram reduction(Contd)
4 th	1 st	4.3. Rules for Block diagram reduction(Contd) Procedure for of Reduction of Block Diagram
	2 nd	4.5. Simple Problem for equivalent transfer function(Contd.)
	3 rd	Tutorial
	4 th	4.5. Simple Problem for equivalent transfer function Basic Definition in Signal Flow Graph & properties
	5 th	4.7. Construction of Signal Flow graph from Block diagram Mason's Gain formula
5 th	1 st	4.9. Simple problems in Signal flow graph for network(Contd.)
	2 nd	4.9. Simple problems in Signal flow graph for network.
	3 rd	Tutorial
	4 th	5. TIME RESPONSE ANALYSIS. 5.1 Time response of control system. 5.2 Standard Test signal. 5.2.1. Step signal,

		5.2.2. Ramp Signal 5.2.3. Parabolic Signal 5.2.4. Impulse Signal 5 . 3 Time Response of first order system with: 5.3.1. Unit step response
	5 th	5.3.2. Unit impulse response. 5 . 4 Time response of second order system to the unit step input. 5.4.1. Time response specification.(Contd.)
6 th	1 st	5.4.1. Time response specification. Derivation of expression for rise time, peak time, peak overshoot, settling time and steady state error.(Contd.)
	2 nd	5.4.2. Derivation of expression for rise time, peak time, peak overshoot, settling time and steady state error.
	3 rd	Tutorial
	4 th	5.4.3. Steady state error and error constants(cont.)
	5 th	5.4.3. Steady state error and error constants
7 th	1 st	5 .5 Types of control system.[Steady state errors in Type-0, Type-1, Type-2 system]
	2 nd	5 .6 Effect of adding poles and zero to transfer function.
	3 rd	Tutorial
	4 th	5 .7 Response with P, PI, PD and PID controller(Contd.)
	5 th	5 .7 Response with P, PI, PD and PID controller
8 th	1 st	6. ANALYSIS OF STABILITY BY ROOT LOCUS TECHNIQUE. Root locus concept.(cont.)
	2 nd	6. 1 Root locus concept.
	3 rd	Tutorial
	4 th	6. 2 Construction of root loci.(cont.)
	5 th	6. 2 Construction of root loci.
9 th	1 st	6. 3 Rules for construction of the root locus. (cont.)
	2 nd	6. 3 Rules for construction of the root locus.(cont.)
	3 rd	Tutorial
	4 th	6. 3 Rules for construction of the root locus.(cont.)
	5 th	6. 3 Rules for construction of the root locus.(cont.)
10 th	1 st	6. 3 Rules for construction of the root locus.
	2 nd	6. 4 Effect of adding poles and zeros to G(s) and H(s).
	3 rd	Tutorial
	4 th	7. FREQUENCY RESPONSE ANALYSIS. Correlation between time response and frequency response.
	5 th	7. 2 Polar plots.(cont.)
11 th	1 st	7. 2 Polar plots.(cont.)
	2 nd	7. 2 Polar plots.(cont.)
	3 rd	Tutorial
	4 th	7. 3 Bode plots.(cont.)
	5 th	7. 3 Bode plots.(cont.)
12 th	1 st	7. 3 Bode plots.(cont.)
	2 nd	7. 4 All pass and minimum phase system. 7. 5 Computation of Gain margin and phase margin(contd.)
	3 rd	7. 4 All pass and minimum phase system. 7. 5 Computation of Gain margin and phase margin
	4 th	Tutorial
	5 th	7. 6 Log magnitude versus phase plot.
13 th	1 st	7. 7 Closed loop frequency response.
	2 nd	8. NYQUIST PLOT Principle of argument
	3 rd	8.2 Nyquist stability criterion.(cont.)
	4 th	Tutorial
	5 th	8.3 Nyquist stability criterion applied to inverse polar plot.(cont.)
14 th	1 st	8.3 Nyquist stability criterion applied to inverse polar plot.(cont.)
	2 nd	8.3 Nyquist stability criterion applied to inverse polar plot.
	3 rd	8.4 Effect of addition of poles and zeros to G(S) H(S) on the shape of Nyquist plot.
	4 th	Tutorial
	5 th	8.5 Assessment of relative stability.

15 th	1 st	8.6 Constant M and N circle.(cont.)
	2 nd	8.6 Constant M and N circle
	3 rd	8.7 Nicholas chart.(contd.)
	4 th	8.7 Nicholas chart.
	5 th	Tutorial

Debenkra Debroy

Signature of Teaching Faculty

ACADEMIC LESSON PLAN OF SUMMER 2025-26

Discipline: Electrical	Semester: 4 th	Name of the Teaching Faculty: DEBENDRA DEHURY
Subject: FOUNDAM ENTAL OF POWER ELECTRO NICS	No. of days/per week class allotted: 3p/week	Semester from: 22.12.2025 to 18.04.2026 No. of weeks: 15 weeks
Week	Class/week	Theory Topics
1 st	1 st	1. Power Electronic Devices 1.1 Power electronic devices 1.2 Power transistor
	2 nd	1.2.1 construction and working principle 1.2.2 V-I characteristics and uses (Contd.)
	3 rd	1.2.1 construction and working principle 1.2.2 V-I characteristics and uses
2 nd	1 st	1.3 IGBT 1.3.1 Construction and working principle 1.3.2 V-I characteristics and uses (contd.)
	2 nd	1.3 IGBT 1.3.1 Construction and working principle 1.3.2 V-I characteristics and uses
	3 rd	1.4 Concept of single electron transistor (SET)
3 rd	1 st	1.5 Aspects of Nano- technology (concept only)
	2 nd	Thyristor Family Devices 2.1 SCR 2.1.1 Construction of SCR
	3 rd	2.1.2 Two transistor analogy of SCR
4 th	1 st	2.1.3 Types, working and characteristics
	2 nd	2.1.4 SCR mounting and cooling
	3 rd	2.2 Types of Thyristors: SCR, LASCR, SCS, GTO, UJT, PUT, DIAC and TRIAC
5 th	1 st	2.3 Thyristor family devices 2.3.1 Symbol and construction 2.3.2 Operating principle 2.3.3 V-I characteristics (Contd.)
	2 nd	2.3 Thyristor family devices 2.3.1 Symbol and construction 2.3.2 Operating principle 2.3.3 V-I characteristics (Contd.)
	3 rd	2.3 Thyristor family devices 2.3.1 Symbol and construction 2.3.2 Operating principle 2.3.3 V-I characteristics (Contd.)
6 th	1 st	2.3 Thyristor family devices 2.3.1 Symbol and construction 2.3.2 Operating principle 2.3.3 V-I characteristics
	2 nd	2.4 Protection circuits 2.4.1 Over-voltage 2.4.2 Over-current
	3 rd	2.4.3 Snubber 2.4.4 Crowbar
7 th	1 st	Turn-on and Turn-off Methods of Thyristors 3.1 SCR Turn-On methods 3.1.1 High Voltage thermal triggering, 3.1.2 Illumination triggering 3.1.3 dv/dt triggering 3.1.4 Gate triggering
	2 nd	3.2 Gate trigger circuits 3.2.1 Resistance and Resistance-Capacitance circuits
	3 rd	3.3 SCR triggering using UJT 3.4 PUT: Relaxation Oscillator and Synchronized UJT circuit

8 th	1 st	3.5 Pulse transformer and opto-coupler based triggering.
	2 nd	3.6 SCR Turn-Off methods: 3.6.1 Class A- Series resonant commutation circuit 3.6.2 Class B-Shunt Resonant commutation circuit
	3 rd	3.6.3 Class C-Complimentary Symmetry commutation circuit 3.6.4 Class D-Auxiliary commutation
9 th	1 st	3.6.5 Class E-External pulse commutation 3.6.6 Class F-Line or natural commutation
	2 nd	Phase Controlled Rectifiers 4.1 Phase control: firing angle, conduction angle.
	3 rd	4.2 Single phase half controlled, full controlled and midpoint controlled rectifier with R, RL load (Contd.)
10 th	1 st	4.2 Single phase half controlled, full controlled and midpoint controlled rectifier with R, RL load (Contd.)
	2 nd	4.2 Single phase half controlled, full controlled and midpoint controlled rectifier with R, RL load
	3 rd	4.2.1 Circuit diagram, working, input- output waveforms, equations for DC output and effect of freewheeling diode (Contd.)
11 th	1 st	4.2.1 Circuit diagram, working, input- output waveforms, equations for DC output and effect of freewheeling diode
	2 nd	4.3 Different configurations of bridge controlled rectifiers: Full bridge, half bridge with common anode, common cathode, SCRs in one arm and diodes in another arm (Contd.)
	3 rd	4.3 Different configurations of bridge controlled rectifiers: Full bridge, half bridge with common anode, common cathode, SCRs in one arm and diodes in another arm (Contd.)
12 th	1 st	4.3 Different configurations of bridge controlled rectifiers: Full bridge, half bridge with common anode, common cathode, SCRs in one arm and diodes in another arm
	2 nd	Industrial Control Circuits 5.1 Applications: Burglar's alarm system, Battery charger using SCR
	3 rd	Emergency light system, Temperature controller using SCR
13 th	1 st	Illumination control/fan speed control TRIAC
	2 nd	5.2 SMPS
	3 rd	5.3 UPS: Offline and Online
14 th	1 st	5.4 SCR based AC and DC circuit breakers.
	2 nd	Revision class
	3 rd	Revision class
15 th	1 st	Revision class
	2 nd	Revision class
	3 rd	Revision class

Debandra Debbar

Signature of Teaching Faculty

ACADEMIC LESSON PLAN OF SUMMER 2025-26

Discipline: Electrical	Semester: 4 th	Name of the Teaching Faculty: DEBENDRA DEHURY
Subject: Electrical Estimation and Contracting	No. of days/per week class allotted: 3p/week	Semester from: 22.12.2025 to 18.04.2026 No. of weeks: 15 weeks
Week	Class/week	Theory Topics
1 st	1 st	Electric Installation and Safety 1.1 Scope and features of National electric code 2011
	2 nd	1.2 Types of electrical installation
	3 rd	1.3 Fundamental principles for electrical installation
2 nd	1 st	1.4 Permit to work, safety instructions and safety practices
	2 nd	1.5 Purpose of estimating and costing
	3 rd	Estimation and Costing 2.1 Meaning and purpose of- Rough estimate
3 rd	1 st	2.2 Detailed estimate 2.3 Supplementary estimate 2.4 Annual maintenance estimate and revised estimate
	2 nd	2.5 Factors to be considered while preparation of detailed estimate and economical execution of work
	3 rd	2.6 Contracts 2.6.1 Concepts of contracts 2.6.2 Types of contracts 2.6.3 Contractor 2.6.4 Role of contractor
4 th	1 st	2.7 Tenders and Quotations 2.7.1 Type of tender 2.7.2 Tender notice
	2 nd	2.7.3 Preparation of tender document, and method of opening of tender 2.7.4 Quotation 2.7.5 Quotation format
	3 rd	2.7.6 comparison between tender and quotation 2.8 Comparative statement
5 th	1 st	2.8.1 Format comparative statement 2.8.2 Order format
	2 nd	2.8.3 Placing of purchasing order 2.9 Principles of execution of works, planning, organizing and completion of work, Billing of work (Contd.)
	3 rd	2.8.3 Placing of purchasing order 2.9 Principles of execution of works, planning, organizing and completion of work, Billing of work
6 th	1 st	Non-Industrial Installations 3.1 Types of Non-industrial installations-Office buildings, shopping and commercial centre, residential installation, Electric service and supply
	2 nd	3.2 Design consideration of electrical installation in commercial buildings
	3 rd	3.3 Design procedure of installation- steps involved in detail
7 th	1 st	3.4 Estimating and costing of unit
	2 nd	3.5 Earthing of commercial installation
	3 rd	3.6 Design electrical installation scheme of commercial complex.
8 th	1 st	3.7 Erection, Inspection and testing of installation as per NEC
	2 nd	Industrial Installation 4.1 Classification of industrial buildings based on power consumption
	3 rd	4.2 Drawing of wiring diagram and single line diagram for single phase and three phase Motors.(Contd.)
9 th	1 st	4.2 Drawing of wiring diagram and single line diagram for single phase and three phase Motors.
	2 nd	4.3 Design consideration in industrial installations
	3 rd	4.4 Design procedure of installation-detailed steps
10 th	1 st	4.5 Design electrical installation scheme of factory/ small industrial unit
	2 nd	4.6 Preparation of material schedule and detailed estimation
	3 rd	4.7 Installation and estimation of agricultural pump and flourmill

11 th	1 st	Public Lighting Installation 5.1 Classification of outdoor installations streetlight/ public lighting installation
	2 nd	5.2 Street light pole structures
	3 rd	5.2.1 Selection of equipment 5.2.2 Sources used in street light installations.
12 th	1 st	5.3 Cables 5.3.1 Recommended types and sizes of cable
	2 nd	5.3.2 Control of street light installation
	3 rd	5.4 Design, estimation and costing of streetlight (Contd.)
13 th	1 st	5.4 Design, estimation and costing of streetlight
	2 nd	Revision class
	3 rd	Revision class
14 th	1 st	Revision class
	2 nd	Revision class
	3 rd	Revision class
15 th	1 st	Revision class
	2 nd	Revision class
	3 rd	Revision class

Debandra Debbar

Signature of Teaching Faculty

ACADEMIC LESSON PLAN OF SUMMER 2025-26

Discipline: Electrical & Telecommunication	Semester: 6 th	Name of the Teaching Faculty: DEBENDRA DEHURY, SMARANIKA DALAI
Subject: PLC & Automation Lab	No. of days/per week class allotted: 2p(2 hour each)/week	Semester from: 22.12.2025 to 18.04.2026 No. of weeks: 15 weeks
Week	Class/week	LAB Topics
1 st	1 st	Introduction / Familiarization of PLC Trainer and Installation with PC - Learn the basics and hardware components of PLC - Configuration of PLC - Study various building blocks of PLC - Determine the number of Digital I/O and Analog I/O (Contd.)
	2 nd	Introduction / Familiarization of PLC Trainer and Installation with PC - Learn the basics and hardware components of PLC - Configuration of PLC - Study various building blocks of PLC - Determine the number of Digital I/O and Analog I/O
2 nd	1 st	Write and implement a simple ladder logic program using digital inputs and outputs for PLC Test AND, OR, EX-OR gate and EX-NOR gates (Contd.)
	2 nd	Write and implement a simple ladder logic program using digital inputs and outputs for PLC Test AND, OR, EX-OR gate and EX-NOR gates
3 rd	1 st	Write and implement a simple ladder logic program using timers with branching and subroutines in PLC - To develop an application using ON-delay timer - To develop an application using OFF-delay timer - To develop an application using Retentive and Non-Retentive timers - To develop an application using UP/DOWN counter - To develop an application using relays and latches (Contd.)
	2 nd	Write and implement a simple ladder logic program using timers with branching and subroutines in PLC - To develop an application using ON-delay timer - To develop an application using OFF-delay timer - To develop an application using Retentive and Non-Retentive timers - To develop an application using UP/DOWN counter - To develop an application using relays and latches
4 th	1 st	Write and implement a simple ladder logic program using counter with branching and subroutines in PLC (Contd.)
	2 nd	Write and implement a simple ladder logic program using counter with branching and subroutines in PLC
5 th	1 st	Write and implement a simple ladder logic program for interfacing a lift control with PLC (Contd.)
	2 nd	Write and implement a simple ladder logic program for interfacing a lift control with PLC
6 th	1 st	Write and implement a simple ladder logic program for interfacing a conveyor control with PLC (Contd.)
	2 nd	Write and implement a simple ladder logic program for interfacing a conveyor control with PLC
7 th	1 st	Communication between PLC and PC - Single motor ON/OFF control - Interlock control of two motors - Conveyor controller (Contd.)
	2 nd	Communication between PLC and PC

		• Single motor ON/OFF control • Interlock control of two motors • Conveyor controller
8 th	1 st	Interface SCADA with PLC, associate tags with memory and I/O, and operate the PLC (Contd.)
	2 nd	Interface SCADA with PLC, associate tags with memory and I/O, and operate the PLC
9 th	1 st	Familiarize with computer networking line diagrams . (Contd.)
	2 nd	Familiarize with computer networking line diagrams .
10 th	1 st	Installation of network card and connecting systems in a network switch . (Contd.)
	2 nd	Installation of network card and connecting systems in a network switch .
11 th	1 st	Connecting systems in peer-to-peer network and installing internal modem and connecting to the Internet. (Contd.)
	2 nd	Connecting systems in peer-to-peer network and installing internal modem and connecting to the Internet.
12 th	1 st	Installing wireless node and installing multiple network cards . (Contd.)
	2 nd	Installing wireless node and installing multiple network cards .
13 th	1 st	Installing switch (Hub) and preparing UTP cable for: • Cross connection • Direct connection using crimping tool . (Contd.)
	2 nd	Installing switch (Hub) and preparing UTP cable for: • Cross connection • Direct connection using crimping tool .
14 th	1 st	Installing and configuring E-mail client – Microsoft Outlook Express . (Contd.)
	2 nd	Installing and configuring E-mail client – Microsoft Outlook Express .
15 th	1 st	Installing and configuring proxy server using WinProxy or Wingate . (Contd.)
	2 nd	Installing and configuring proxy server using WinProxy or Wingate .

Debasmita Deborty

Signature of Teaching Faculty

ACADEMIC LESSON PLAN OF SUMMER 2025-26

Discipline: Electrical	Semester: 4 th	Name of the Teaching Faculty: DEBENDRA DEHURY, SANGEETA KUMARI PATRO
Subject: POWER ELECTRONIC SLAB (G1)	No. of days/per week class allotted: 2p(2 hour each)/week	Semester from: 22.12.2025 to 18.04.2026 No. of weeks: 15 weeks
Week	Class/week	LAB Topics
1 st	1 st	Test the proper functioning of power transistor. (Contd.)
	2 nd	Test the proper functioning of power transistor.
2 nd	1 st	Verify the VI characteristics of IGBT.(Contd.)
	2 nd	Verify the VI characteristics of IGBT.
3 rd	1 st	Verify the VI characteristics of DIAC to determine the break over voltage. (Contd.)
	2 nd	Verify the VI characteristics of DIAC to determine the break over voltage.
4 th	1 st	Verify the VI characteristics of SCR.(Contd.)
	2 nd	Verify the VI characteristics of SCR.
5 th	1 st	Test the variation of R, C in R and RC triggering circuits on firing angle of SCR.(Contd.)
	2 nd	Test the variation of R, C in R and RC triggering circuits on firing angle of SCR.
6 th	1 st	Test the effect of variation of R, C in UJT triggering technique.(Contd.)
	2 nd	Test the effect of variation of R, C in UJT triggering technique.
7 th	1 st	Perform the operation of Class – A, B, C, turn-off circuits.(Contd.)
	2 nd	Perform the operation of Class – A, B, C, turn-off circuits.
8 th	1 st	Perform the operation of Class –D, E, F turn off circuits. (Contd.)
	2 nd	Perform the operation of Class –D, E, F turn off circuits.
9 th	1 st	Use CRO to observe the output waveform of half wave-controlled rectifier with resistive load and determine the load voltage.(Contd.)
	2 nd	Use CRO to observe the output waveform of half wave-controlled rectifier with resistive load and determine the load voltage.
10 th	1 st	Draw the output waveform of Full-wave-controlled rectifier with R load, RL load, free-wheeling diode and determine the load voltage. (Contd.)
	2 nd	Draw the output waveform of Full-wave-controlled rectifier with R load, RL load, free-wheeling diode and determine the load voltage.
11 th	1 st	Determine the firing angle using DIAC and TRIAC phase-controlled circuit on output power under different loads such as lamp, motor or heater. (Contd.)
	2 nd	Determine the firing angle using DIAC and TRIAC phase-controlled circuit on output power under different loads such as lamp, motor or heater
12 th	1 st	Test the performance of given SMPS, UPS. (Contd.)
	2 nd	Test the performance of given SMPS, UPS.
13 th	1 st	Troubleshoot the Burglar's alarm, Emergency light system, Speed control system, Temperature control system. (Contd.)
	2 nd	Troubleshoot the Burglar's alarm, Emergency light system, Speed control system, Temperature control system.
14 th	1 st	Revision Class
	2 nd	Revision Class
15 th	1 st	Revision Class
	2 nd	Revision Class

Debendra Dehury

Signature of Teaching Faculty

ACADEMIC LESSON PLAN OF SUMMER 2025-26

Discipline: Electrical	Semester: 4 th	Name of the Teaching Faculty: DEBENDRA DEHURY, SANGEETA KUMARI PATRO
Subject: POWER ELECTRONIC SLAB (G2)	No. of days/per week class allotted: 2p(2 hour each)/week	Semester from: 22.12.2025 to 18.04.2026 No. of weeks: 15 weeks
Week	Class/week	LAB Topics
1 st	1 st	Test the proper functioning of power transistor. (Contd.)
	2 nd	Test the proper functioning of power transistor.
2 nd	1 st	Verify the VI characteristics of IGBT.(Contd.)
	2 nd	Verify the VI characteristics of IGBT.
3 rd	1 st	Verify the VI characteristics of DIAC to determine the break over voltage. (Contd.)
	2 nd	Verify the VI characteristics of DIAC to determine the break over voltage.
4 th	1 st	Verify the VI characteristics of SCR.(Contd.)
	2 nd	Verify the VI characteristics of SCR.
5 th	1 st	Test the variation of R, C in R and RC triggering circuits on firing angle of SCR.(Contd.)
	2 nd	Test the variation of R, C in R and RC triggering circuits on firing angle of SCR.
6 th	1 st	Test the effect of variation of R, C in UJT triggering technique.(Contd.)
	2 nd	Test the effect of variation of R, C in UJT triggering technique.
7 th	1 st	Perform the operation of Class – A, B, C, turn-off circuits.(Contd.)
	2 nd	Perform the operation of Class – A, B, C, turn-off circuits.
8 th	1 st	Perform the operation of Class –D, E, F turn off circuits. (Contd.)
	2 nd	Perform the operation of Class –D, E, F turn off circuits.
9 th	1 st	Use CRO to observe the output waveform of half wave-controlled rectifier with resistive load and determine the load voltage.(Contd.)
	2 nd	Use CRO to observe the output waveform of half wave-controlled rectifier with resistive load and determine the load voltage.
10 th	1 st	Draw the output waveform of Full-wave-controlled rectifier with R load, RL load, free-wheeling diode and determine the load voltage. (Contd.)
	2 nd	Draw the output waveform of Full-wave-controlled rectifier with R load, RL load, free-wheeling diode and determine the load voltage.
11 th	1 st	Determine the firing angle using DIAC and TRIAC phase-controlled circuit on output power under different loads such as lamp, motor or heater. (Contd.)
	2 nd	Determine the firing angle using DIAC and TRIAC phase-controlled circuit on output power under different loads such as lamp, motor or heater
12 th	1 st	Test the performance of given SMPS, UPS. (Contd.)
	2 nd	Test the performance of given SMPS, UPS.
13 th	1 st	Troubleshoot the Burglar's alarm, Emergency light system, Speed control system, Temperature control system. (Contd.)
	2 nd	Troubleshoot the Burglar's alarm, Emergency light system, Speed control system, Temperature control system.
14 th	1 st	Revision Class
	2 nd	Revision Class
15 th	1 st	Revision Class
	2 nd	Revision Class



Signature of Teaching Faculty