

LESSON PLAN (WINTER- 2022)				
Subject- POWER ELECTRONICS & PLC		Semester-5TH	Branch- Electrical Engineering	
NAME OF FACULTY-LIPSARANI BAGH				
Sl. No.	Date	Chapter	Topic Name	No. of periods
WEEK NO-1	15-09-2022 to 17-09-2022		1.1.scr,disc,triac,mosfet,igbt,gto construction Cont.... Cont....	1 1 1
WEEK NO-2	19-09-2022 to 24-09-2022	Chapter 1 ( power electronics device construction)	1.2. two transistor analogy of scr 1.3. gate characteristic of scr 1.4.switching characteristic scr 1.5. turn on methods of scr 1.6. turn off methods of scr 1.7.voltage and current rating of scr 1.8. protection of scr 1.9. firing ckt Cont....	1 1 1 1 1 1 1 1 1
WEEK NO-3	26-09-2022 to 01-10-22		2.1. rectifiers	1
WEEK NO-4	03-10-22 to 08-10-22		HOLIDAYS	
WEEK NO-5	10-10-22 to 15-10-22	Chapter 2 ( converter,ac regulotor and hopper )	2.2. working of single phase half wave converter 2.3. freewheeling diode 2.4. fully controlled converter 2.5. three phase half wave controlled converter 2.6. three phase fully controlled converter 2.7. ac regulator 2.8. step up and step down chopper	1 1 1 1 1 1 1
WEEK NO-6	17-10-22 to 22-10-22		3.2. working of series inverter 3.3. working of parallel inverter 3.4 working of bridge inverter 3.5.basic of cycloconverter 3.6.step up and step down cyclo converter 3.7. application of cyclo converter 3.8 step up cyclonoverter working detail	1 1 1 1 1 1
WEEK NO-7	24-10-22 to 29-10-22	Chapter 3 (inverters and cycloconverter)	4.1. list of application of power electronics 4.2. factor affecting speed of dc motor 4.3. speed control of dc shunt motor using converter 4.4. speed control of shunt motor using chopper 4.5. factor affecting speed of ac motor	1 1 1 1 1
WEEK NO-8	31-10-22 to 05-11-22		4.6. speed control of Induction motor using ac regulator 4.7. speed control using v/f control 4.8. working of ups, 4.9.battery charging ckt 4.10.switched mode power supply 4.11. Sodium vapor lamps.	1 1 1 1
WEEK NO-9	07-11-22 to 12-11-22	Chapter 4 (application of power electronic ckt)	4.12. High pressure mercury vapor lamps. 4.13. Neon lamps 4.14. High lumen output & low consumption fluorescent lamps.	1 1
WEEK NO-10	14-11-22 to 19-11-22		5.1. plc 5.2. advantages of plc 5.3. different parts of plc 5.4. application of plc 5.5. ladder diagram	1 1 1 1
WEEK NO-11	22-11-22 to 26-11-22			1

WEEK NO-12	28-11-22 to 03-12-22
WEEK NO-13	05-12-22 to 10-11-22
WEEK NO-14	12-12-22 to 17-12-22
WEEK NO-15	19-12-22 to 22-12-22

Capter 5(PLC)	5.6.no,nc switch	1
	5.7.ladder diagram AND gate,OR gate,NOT gate	1
	5.8.ladder for NAND,NOR,EX-OR	1
	5.9.Timers	1
	5.10.Counters	1
	5.11.ladder diagram using timer and counter	1
	5.12.plc instruction set	1
	5.13.dol starter	1
	5.13.1.star delta starter	1
	5.13.2. stare case lightning	1
	5.13.3. traffic light control.	1
	5.13.4.temperature controller	1
	5.14.special controller 5.14.1.DCS	1
	5.14.2.SCADA SYSTEM 5.15.computer control	1
	5.15.1.data acquisition	1
	5.15.2..direct digital control system	1
	5.15.3.basic diagram of digital control	1
	REVISION	1

A handwritten signature is written over the date "15/09/22".