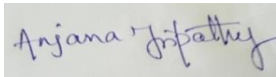


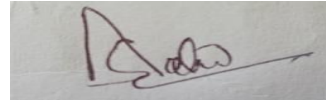
PNS SCHOOL OF ENGINEERING & TECHNOLOGY
NISHAMANI VIHAR ,KENDRAPARA
LESSON PLAN

BRANCH:ETC SUB.:PR-03 WPBC LAB	SEM.-5TH NO.OF DAYS PER WEEK:02 CLASSES ALLOTTED- 02	NAME OF THE FACULTY:MRS ANJANA TRIPATHY FROM DT-1.08.2023-30.11.2023
MONTH	WEEK	PRACTICAL TOPIC
AUGUST	1ST	1. Plot V-I characteristics of devices & trace the output waveform a) SCR b) DIAC c) TRIAC d) GTO f) MOSFET
	2ND	2. Construct the circuits using Trainer Board/Kit of the followings a) R-C triggering circuits using SCR & trace the output waveform at different test points. b) UJT Triggering & trace the output waveform at different test points. c) UJT relaxation oscillator circuits
	3RD	3. Construct lamp dimmer using TRIAC using Trainer Board/Kit & trace the output waveform using Trainer Board/Kit
	4TH	4. Construct the Single Phase Half wave Converter using Trainer Board/Kit for R load & RL load & trace the output waveform at different test points.
SEPTEMBER	1ST	5. Construct the Single Phase Full wave Converter for R load & RL load using Trainer Board/Kit & trace the output waveform at different test points.
	2ND	6. Construct the Chopper Circuit using Trainer Board/Kit at constant frequency with different duty cycle & trace the output waveform at different test points.
	3RD	7. Study the Single Phase Series Inverter & trace the output waveform at different test points.
	4TH	8. Construct & trace the output waveform of a single phase AC voltage controller using TRIAC with Trainer Board/Kit
OCTOBER	1ST	9. To construct and study(any one) a) Proximity switch b) Burglar alarm c) Fire Alarm
	2ND	10. Study of UPS and observe the waveform of various section (ON,OFF & Line interactive
	3RD	12. Construct of Battery Charger circuit & trace the output waveform at different tests points.
	1ST	11. Study of servo type voltage AC stabilizer(Self study)

NOVEMBER	2ND	3. Study of SMPS circuit & trace the output waveform at different tests points.
	3RD	14. Study of 1 phase Cyclo-converter and trace the output waveform at different test points
	4TH	and specification sheet of all the equipment & components used for performing experiment and submit the project as above with innovative ideas.(i.e. Solar inverter, Blue tooth Light control Circuit, Industrial Fire control, Home automation or any innovative ideas etc) –Any one



SIGNATURE OF
DEMONSTRATOR



SIGN. OF H.O.D.