

DISCIPLINE: Electrical & Electronics Engg.	SEMESTER: 5TH Semester	NAME OF THE TEACHING FACULTY: Bibhuti Gampai PTGF IN EEE
SUBJECT: WP&CE LAB(PR4)	NO OF DAYS/PER WEEK CLASSES ALLOTTED:3	SEMESTER FROM DATE: 14.07.2025 TO DATE: 15.11.2025 NO OF WEEKS:15

Week	Class Day	PRACTICAL Topics
1st	1st	Study the Antenna Trainer for different type of Antenna & find its gain.
2nd	2nd	Draw the radiation pattern & find the characteristics of antenna (Yagi, Horn, Rombus, Dipole).
3rd	3rd	Draw the waveform of different lobe of different Antennas using antenna trainer.
4 th	4th	Find the Standing Wave ratio (Open & Short Circuit) & different losses in Transmission line.
5 th	5th	To study different types of Microwave components.
6th	6th	Measure VSWR of different types of load (Matched, Open, Shorted) using Microwave test bench.
7th	7th	Measurement of microwave power using power meter.
8 th	8th	Set up & installation of Dish TV.
9 th	9th	Study the SMPS section and find out load & line regulation.
10 th	10th	Study the basic common faults in LED TV.
11 th	11th	Connect the cable TV, HD TV & CCTV using Digital camera & Colour TV monitor & observe the output.
12th	12th	Study basic principle of Flat screen picture tubes, LCD /LED.
13 th	13th	Mini Project on above to Assembly Mono chrome/Colour TV set and detects its fault at different section. Connection of LCD/LED TV /HD TV with LCD/Computer and concept of HDMI &VGA cable(installation of Smart TV)
14th	14th	Study & visit the Microwave Station/ TV Transmitter/Radio Transmitter & prepare a Project Report.
15th	15th	Repeat class

G. Bibhuti
Signature of Lecturer

Devi
Signature of HOD