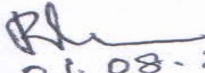


### ACADEMIC LESSON PLAN OF WINTER 2023

Discipline: ETC	Semester:5th	Name of the Teaching Faculty: Rajeev Ranjan Seth and Smaranika Dalai
Subject: WAVE PROPAGATION & COMMUNICATION ENGINEERING LAB	No. of days/per week class allotted: 3p(3hr)/week	Semester From: 1 <sup>st</sup> Aug 2023 to 30 <sup>th</sup> Nov 2023 No. of Weeks: 17 weeks
<b>Week</b>	<b>Class Day</b>	<b>Practical Topics</b>
1 <sup>st</sup>	1 <sup>st</sup>	Introduction
2 <sup>nd</sup>	1 <sup>st</sup>	Exp-1 Study the Antenna Trainer for different type of Antenna & find its gain.
3 <sup>rd</sup>	1 <sup>st</sup>	Exp-2 Draw the radiation pattern & find the characteristics of antenna(Yagi,Horn,,Rombus,Dipole)
4 <sup>th</sup>	1 <sup>st</sup>	Exp-3 Draw the waveform of different lobe of different Antennas using antenna trainer
5 <sup>th</sup>	1 <sup>st</sup>	Exp-4 Find the Standing Wave ratio (Open & Short Circuit) & different losses in Transmission line
6 <sup>th</sup>	1 <sup>st</sup>	Exp-5 To study different types of Microwave components.
7 <sup>th</sup>	1 <sup>st</sup>	Exp-6 Measure VSWR of different types of load (Matched, Open, Shorted)using Microwave test bench.
8 <sup>th</sup>	1 <sup>st</sup>	Exp-7Measurement of microwave power using power meter
9 <sup>th</sup>	1 <sup>st</sup>	Exp-8 Study the SMPS section and find out load & line regulation.
10 <sup>th</sup>	1 <sup>st</sup>	Exp-9 Mini Project on above to Assembly Mono chrome/Colour TV set and detect 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)- any one..Continue..
11 <sup>th</sup>	1 <sup>st</sup>	Exp-9 Mini Project on above to Assembly Mono chrome/Colour TV set and detect 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)- any one.
12 <sup>th</sup>	1 <sup>st</sup>	Exp-10 Study & visit the Microwave Station/ TV Transmitter/Radio Transmitter & prepare a Project Report..Continue...
13 <sup>th</sup>	1 <sup>st</sup>	Exp-10 Study & visit the Microwave Station/ TV Transmitter/Radio Transmitter & prepare a Project Report.
14 <sup>th</sup>	1 <sup>st</sup>	Lab Practice
15 <sup>th</sup>	1 <sup>st</sup>	Lab Practice
16 <sup>th</sup>	1 <sup>st</sup>	Sessional
17 <sup>th</sup>	1 <sup>st</sup>	Sessional

  
01.08.2023

Signature of Teaching Faculty