

Badriprasad Institute of Technology, Sambalpur

Lesson plan for Theory -4, BASIC ELECTRONICS

Semester & Branch : 1ST SEM, ETC Engineering

Total Periods-30

Name of the faculty : MR. MALAYA BASANTA TRIPATHY

No of periods /week-2

WEEK	CLASS DAY	THEORY
1ST	1ST	BASIC CONCEPTS OF ELECTRONICS AND ITS APPLICATION
	2ND	ELECTRON EMISSION & ITS TYPES CLASSIFICATION OF MATERIALS ACCORDING TO ELECTRICAL CONDUCTIVITY
2ND	1ST	INTRINSIC SEMICONDUCTOR
	2ND	EXTRINSIC SEMICONDUCTOR
3RD	1ST	DIFFERENCE BETWEEN VACUUM TUBE AND SEMICONDUCTOR
	2ND	PRINCIPLE OF WORKING AND USE OF PN JUNCTION DIODE
4TH	1ST	PRINCIPLE OF WORKING AND USE OF ZENER DIODE, LED
	2ND	IC AND ITS ADVANTAGES
5TH	1ST	RECTIFIER AND ITS USES
	2ND	PRINCIPLE OF WORKING OF DIFFERENT TYPES OF RECTIFIER WITH THEIR MERITS AND DEMERITS
6TH	1ST	FUNCTION AND CLASSIFICATION OF FILTERS
	2ND	WORKING OF DC POWER SUPPLY SYSTEM
7TH	1ST	TRANSISTOR, DIFFERENT TYPES OF TRANSISTOR CONFIGURATION
	2ND	NEED OF BIASING AND DIFFERENT TYPES OF BIASING
8TH	1ST	AMPLIFIER, WORKING PRINCIPLE OF SINGLE PHASE CE AMPLIFIER
	2ND	SIMPLE BLOCK DIAGRAM OF OSCILLATOR AND ITS CLASSIFICATION
9TH	1ST	BASIC COMMUNICATION SYSTEM, CONCEPT OF MODULATION AND DEMODULATION
	2ND	AM
10TH	1ST	FM
	2ND	PM
11TH	1ST	CONCEPT OF TRANSDUCER AND SENSOR WITH THEIR DIFFERENCES
	2ND	DIFFERENT TYPES OF TRANSDUCERS, ACTIVE AND PASSIVE TRANSDUCER
12TH	1ST	WORKING PRINCIPLE OF PHOTO EMISSIVE TRANSDUCER
	2ND	WORKING PRINCIPLE OF PHOTOCONDUCTIVE TRANSDUCER
13TH	1ST	WORKING PRINCIPLE OF PHOTOVOLTAIC TRANSDUCER
	2ND	MULTIMETER AND ITS APPLICATION
14TH	1ST	ANALOG AND DIGITAL MULTIMETER AND THEIR DIFFERENCES
	2ND	WORKING PRINCIPLE OF MULTIMETER WITH BASIC BLOCK DIGRAM
15TH	1ST	WORKING PRINCIPLE OF CRO WITH SIMPLE BLOCK DIGRAM
	2ND	SEMESTER PATTERN QUESTION DISCUSSION

Sign of Faculty

Sign of HOD