

SESSION : 2014-15

SEMESTER : 3rd

DEPARTMENT: EE / ME ENGINEERING

SUBJECT : BASIC ELECTRONICS

TEACHER : SUBHAM BHASKAR(S.B)/ RUPESH SHARMA(R.S)/SOURAV SAMANTA(S.S)

WEEK	TOPIC	SUB-TOPIC
1	SEMICONDUCTOR DIODE	a> Fundamental b> Biasing concept c> Characteristics of diode
2	ZENER DIODE	a> Construction of circuit b> Biasing concept c> Avalanche & zener breakdown d> Specification(power dissipation,BOC)
3	OTHER DIODE	a> Schottky & photo diode
4	RECTIFIER AND FILTER	a> HWF & FWR (CHARACTERISTICS) b> Filter concept c> Application of filter
5/6	TRANSISTOR	a> SYMBOL,OPERATION,CHARACTERISTICS,SPECIFICATION,PARAMETER ,BIASING, AMPLIFYING ACTION
7	JFET/UJT	a> CONSTRUCTION, WORKING PRINCIPLE,PARAMETER
8	REGULATED POWER SUPPLY	SHUNT,SERIES,LINE & LOAD REGULATION,REGULATED IC 78XX,79XX,723, ZENER DIODE VOLTAGE REGULATION
9/10	SMALL SIGNAL AMPLIFIER	SSA using BJT ,i/o resistance voltage power relation,load line, I/O coupling capacitor, Emitter bypass capacitor, cascading amplifier ,amplifier coupling.