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Course Code/Name : BE3251 Basic Electrical and Electronics Engineering

Regulation : R2021

Branch : Common to CSE, IT, AIDS, CSBS, BME and MECH

UPC – Student Planner

Slot	Unit .No.	Name of the Unit	Questions	CO Mapping	Grade	
					A	B
1	I	Electrical Circuits	1. Problems based on Kirchhoff's Current law 2. Problems based on Kirchhoff's Voltage law 3. Problems based on mesh analysis 4. Problems based on nodal analysis 5. Problems based on RL, RC and RLC	C112.1	3 4 5	1 2
2	II	Electrical Machines	1. Construction, Working, Types and EMF equation of DC generator 2. Construction, Working, Types and Torque equation of DC Motor 3. Construction, Working, Types and EMF equation of Single phase Transformer 4. Construction, Working, Torque equation of Three phase alternator 5. Construction, Working, Torque equation of Three phase Synchronous motor 6. Construction, Working, Torque equation of Three phase Induction motor	C112.2	1 2 3 6	4 5
3	III	Analog Electronics	1. PN junction Diode, Zener diode: Construction, Working, VI Characteristics and applications 2. Construction, Working, VI Characteristics and applications of CB and CE configuration 3. JFET: Construction, Working, VI Characteristics and applications 4. DE-MOSFET, E-MOSFET: Construction, Working, VI Characteristics and applications 5. IGBT: Construction, Working, VI Characteristics and applications 6. Rectifier: Construction, working and output waveforms 7. Inverter: Construction, working and output waveforms	C112.3	1 2 4 6	3 5 7
4	IV	Digital Electronics	1. Problems based on number conversions 2. Adder and Subtractor circuits 3. Problems based on 3 variable K-Map 4. Problems based on 4 variable K-Map	C112.4	1 2 3 4	
5	V	Measurements and Instrumentation	1. PMMC and MI instruments 2. Block diagram of DSO 3. Energy meter 4. Data Acquisition system 5. Three phase power measurement 6. Instrument Transformers (CT, PT)	C112.5	1 2 3 5	4 6
6	Part-A Questions					

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