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<b>Course Code/Name</b>	: BE3251 Basic Electrical and Electronics Engineering
Regulation	: R2021
Branch	: Common to CSE, IT, AIDS, CSBS, BME and MECH

## <u> UPC – Student Planner</u>

Slot	Unit	Name of the	Questions	СО	Grade	
	.No.	Unit	_	Mapping	Α	В
1	Ι		1. Problems based on Kirchhoff's Current law			1
		Electrical	2. Problems based on Kirchhoff's Voltage law	C112.1		2
		Circuits	3. Problems based on mesh analysis	0112.1	3	
			4. Problems based on nodal analysis		4	
			5. Problems based on RL, RC and RLC		5	
2	П	Electrical Machines	1. Construction, Working, Types and EMF equation of DC		1	
			generator			
			2. Construction, Working, Types and Torque equation of		2	
			DC Motor			
			3. Construction, Working, Types and EMF equation of	C112.2	3	
			Single phase Transformer	C112.2		
			4. Construction, Working, Torque equation of Three phase			4
			alternator			
			5. Construction, Working, Torque equation of Three phase			5
			Synchronous motor			
			6. Construction, Working, Torque equation of Three phase		6	
			Induction motor			
			1. PN junction Diode, Zener diode: Construction, Working,		1	
		Analog Electronics	VI Characteristics and applications			
			2. Construction, Working, VI Characteristics and		2	
			applications of CB and CE configuration			
			3. JFET: Construction, Working, VI Characteristics and			3
3			applications	0112.2		
3			4. DE-MOSFET, E-MOSFET: Construction, Working, VI	C112.3	4	
			Characteristics and applications			
			5. IGBT: Construction, Working, VI Characteristics and			5
			applications			
			6. Rectifier: Construction, working and output waveforms		6	
			7. Inverter: Construction, working and output waveforms			7
4	IV		1. Problems based on number conversions	C112.4	1	
		Digital Electronics	2. Adder and Subtractor circuits	C112.4	2	
			3. Problems based on 3 variable K-Map		3	
			4. Problems based on 4 variable K-Map		4	
			1. PMMC and MI instruments		1	
	V	and A A A A A A A A A A A A A A A A A A A	2. Block diagram of DSO		2	
5			3. Energy meter	C112.5	3	
5			4. Data Acquisition system	C112.3		4
			5. Three phase power measurement		5	
			6. Instrument Transformers (CT, PT)			6
6			Part-A Questions			

**Prepared By** 

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