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Course Code/Name : BE3254 Electrical and Instrumentation Engineering

Regulation : R2021 Branch : ECE

<u>UPC – Student Planner</u>

Slot	Unit .No.	Name of the	Questions Questions	СО	Grade	
		Unit		Mapping	A	В
1	I	Transformer	 Construction & Working principle of Transformer Equivalent circuit of transformer Different types of testing Problems based on Efficiency, voltage regulation, Working principle of Autotransformer Different connection of three phase transformer 	C112.1	1 2 3 4 5	6
2	II	DC Machines	 Construction, Working, of DCgenerator Construction, Working, of DC Motor Emf and torque equation Three point and four point starter Characteristics of the DC motor Stepper motor, Universal motor, brushless DC motor 	C112.2	1 2 3 4 5	6
3	III	AC Rotating Machines	 Construction ,Principle of three phase induction motor, Types Equivalent circuit of 3 phase induction motor Construction, Working, Types, starting method and EMF equation of Single phase Transformer Construction, Working, starting method and Torque equation of Synchronous motor Speed control 	C112.3	1 2 3 4 5	
4	IV	Measurements and Instrumentation	 PMMC and MI instruments Block diagram of DSO Energy meter Data Acquisition system Three phase power measurement Instrument Transformers (CT, PT) 	C112.4	1 2 3	4
5	V	Basic of Power systems	 Structure of power system Method of earthing Protective device MCB,MCCB,ELCB Safety precautions and first Aid 	C112.5	1 2 3 4 5	
6		1	Part-A Questions	1		•

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