

Electronics Department**F.Y.B.Sc. Electronics of B.Sc. (Computer Science) CBCS 2019-20****Course Name:** SEM-I, ELC-113PAPER III- ELECTRONICS Lab IA(Practical)(1.5 credits)**Teacher Name:** Prof. A.R. Dhobale

Course	Course Specific Outcome(CSO)	Teaching Methodology	Reference
Preparatory Experiments	Students will be able to learn <ul style="list-style-type: none"> • Identification of components based on Visual inspection and data sheet provided. • Use of Multimeters measurement of AC ,DC voltages • Testing of Diodes and transistor • Study of CRO 	Practical	Kits, CRO, Data Manual,Internet
Study of half wave, Full wave and Bridge Rectifier	Students will be able to learn <ul style="list-style-type: none"> • Draw Circuit diagram • makeConnections • Observation of waveforms • calculations • Graph and comment 	Practical	Data Manual,internet
Study of Bipolar Junction transistor as a Switch	Students will be able to learn <ul style="list-style-type: none"> • Drawcircuit diagram • makeconnections • observation table • working of transistor as switch 	Practical	Data Manual,Internet

	<ul style="list-style-type: none"> • plot graph and take readings 		
Study of single stage RC Coupled amplifier	<p>Students will be able to learn</p> <ul style="list-style-type: none"> • Draw circuit diagram • Make connections • Draw observation table • Take Readings • Plot Graph • Write Comments 	Practical	Data Manual,Internet
Study of IC 555 As astable Multivibrator	<p>Students will be able to learn</p> <ul style="list-style-type: none"> • Draw circuit diagram • Make connections • Draw observation table • Take Readings • Draw circuit diagram • Make connections • Observe waveforms • Calculate Frequency • Write Conclusion 	practical	Kit,CRO,Data sheet ,Internet
Study of Logic gates	<p>Students will be able to learn</p> <ul style="list-style-type: none"> • Draw symbols • Make connections • Write truth table and verify • Write Conclusion 	practical	Kits,data sheet ,internet
Study of half adder and Full adder	<p>Students will be able to learn</p> <ul style="list-style-type: none"> • Draw symbols • Make connections • Write truth table and verify • Write Conclusion 	practical	Kits,data sheet ,internet
Study of Multiplexer and Demultiplexer	<p>Students will be able to learn</p> <ul style="list-style-type: none"> • Construct Mux and De-Mux • Make connections 	practical	Kits,data sheet,internet

	<ul style="list-style-type: none"> • Observe Multiplexing action • Write Conclusion 		
Study of BCD TO Seven segment Display using IC 7447	Students will be able to learn <ul style="list-style-type: none"> • Draw circuit diagram • Make connections • Write observation table • Write conclusion 	practical	Kits,data sheets,internet

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Dr S.S.Rane

Head of Electronics Department