

M.Sc. second Year LABORATORY course
Paper code PHY555L

Total Marks: 200

	Name of the Experiment
Unit –1	: POWER SUPPLIES
Unit –2	: ZENER DIODE AS A VOLTAGE REGULATOR
Unit –3	: RC-COUPLED AMPLIFIER
Unit –4	: RC-PHASE SHIFT OSCILLATOR
Unit –5	: COLPITS OSCILLATOR
Unit –6	: OPERATIONAL AMPLIFIER (OP-AMP) CHARACTERISTICS
Unit –7	: OPERATIONAL AMPLIFIER (OP-AMP) AS AN INVERTING & NON- INVERTING AMPLIFIER
Unit –8	: WEIN BRIDGE OSCILLATOR
Unit –9	: TRIANGULAR WAVE GENERATOR
Unit –10	: SCHMITT TRIGGER USING IC 741 (OP AMP)
Unit –11	: ASTABLE MULTIVIBRATOR USING IC 555
Unit –12	: MONOSTABLE MULTIVIBRATOR WITH IC 555
Unit –13	: VERIFICATION OF BOOLEAN AND DEMORGAN THEOREMS
Unit –14	: HALF ADDER / HALF SUBTRACTOR
Unit –15	: FULL – ADDER
Unit –16	: VERIFICATION OF FLIP-FLOPS
Unit –17	: IMPLEMENTATION OF RING COUNTER AND JOHNSON COUNTER
Unit –18	: COUNTERS (PART-A)
Unit –19	: DECADE COUNTER
Unit –20	: DIGITAL TO ANALOG CONVERSION
Unit –21	: CRYSTAL OSCILLATOR
Unit –22	: HISTORY OF THE 'C' PROGRAMMING LANGUAGE
Unit –23	: EVALUATION OF FUNCTIONS
Unit –24	: EVALUATION OF DETERMINANT OF MATRIX
Unit –25	: SOLUTION OF NON-LINEAR EQUATIONS
Unit –26	: NUMERICAL INTEGRATION
Unit –27	: SOLUTIONS FOR DIFFERENTIAL EQUATIONS
Unit –28	: SOLUTIONS TO SYSTEM OF LINEAR EQUATIONS

Note - Student has to perform at list 15 experiment in the year. Experiments may be changed as per the availability in the study center but the experiment must be of master level.