



AVIT
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY



VINAYAKA MISSION'S
RESEARCH FOUNDATION
(Deemed to be University under section 3 of the UGC Act 1956)



Accredited by NAAC



Approved by AICTE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

LIST OF EXPERIMENTS

PROG, BRANCH,	M.E., E.S.T
YEAR/ SEMESTER, SECTION	I/ I, -
SUBJECT	EMBEDDED SYSTEMS LAB - I
ACADEMIC YEAR	2021-2022 (ODD SEMESTER)

- Design with 8 bit Microcontrollers 8051/PIC Microcontrollers
 - I/O Programming, Timers, Interrupts, Serial port programming
 - PWM Generation, Motor Control, ADC/DAC, LCD and RTC Interfacing, Sensor Interfacing
 - Both Assembly and C programming
- Design with 16 bit processors
I/O programming, Timers, Interrupts, Serial Communication,
- Design with ARM Processors.
I/O programming, ADC/DAC, Timers, Interrupts,
- Study of one type of Real Time Operating Systems (RTOS)
- Electronic Circuit Design of sequential, combinational digital circuits using CAD Tools
- Simulation of digital controllers using MATLAB/LabVIEW.
- Programming with DSP processors for
Correlation, Convolution, Arithmetic adder, Multiplier, Design of Filters - FIR based , IIR based
- Design with Programmable Logic Devices using Xilinx/Altera FPGA and CPLD
Design and Implementation of simple Combinational/Sequential Circuits
- Network Simulators
Simple wired/ wireless network simulation using NS2
- Programming of TCP/IP protocol stack.

HOD/ ECE