

Vel Tech (Owned By R. S. Trust) Chennai-62

This is to inform all Vel Tech (Owned By R.S. Trust) Project coordinators & HOD's that **UG Final Year** students advised to ***Upload their Project Demo Video's in YouTube***, including **CIVIL, MECH, ECE, EEE**. (YouTube is a video-sharing website, created on which users can upload, view and share videos).

The Students of All UG should submit,

- **Project KIT** (If any)
- **Project Hard Copy** (Report)
- **Soft Copy (CD)** (Report, YouTube Video & Link, 1 page Report)

It is the responsibility of respective Dept Project Coordinators & HODs to check before sending students to **Knowledge Resource Centre (KRC)** for submission.

For Submission of the Project Kit, Hard Copy (Project Report) & soft copy (CD) to **Knowledge Resource Centre (KRC)** as per following guidelines.

PROCEDURE TO SUBMIT THE PROJECTKIT

- ❖ A KIT or WORKING MODEL BASED project has to be produced in a **TRANSPARENT FIBER** which has a **COVER LID. [COMPULSORY]**
- ❖ The Cover lid should contain the FOLLOWING DETAILS STICKERED on it in **BLUE COLOUR** and in the FOLLOWLING ORDER ONLY.

Please include names of all the **batch members, ID NO, REG NO & Internal Guide.**

- ❖ The Outer **FIBER LID** should be larger than (at least 2 inches) Project KIT.

NOTE: Project Kit should be in **FIBER** only. (Simulation projects ignore this)

SOME OF THE PROJECT KIT STICKERING MODELS ARE..



PROCEDURE TO SUBMIT THE SOFT COPY:

- The Project Softcopy should contain Report, PPT, Base Paper & 1 page Report.
- The Project Report should be in WORD&PDF Format.
- In outer CD cover the Dept Name, Project Title, Batch Members should be mentioned.
- All students should submit soft copy of colour passport size photo.

NOTE: (i) Avoid the submission of **EMPTY** CD/**same** Report/etc.

(ii) All Students have to submit another one CD to dept project coordinator. In that CD should contain the Simulation File, Simulation OUTPUT, Base Paper & 1 page Report, Report should be in WORD&PDF Format, YouTube Video & Link.

PROCEDURE TO SUBMIT 1 PAGE REPORT IN SOFT COPY:

SAMPLE MODEL OF 1 PAGE REPORT GIVEN BELOW:

Underground Power Cable Fault Distance Locator using Embedded Systems

PREMKUMAR (VT 8845), RAJESH (VT 8892), SUGUMAR (VT 8888)

DEPARTM ENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Internal Guide: Mr. M. PRADEEP

Company Name & Logo:

STUDENT
PHOTO

STUDENT
PHOTO

SEIMENS COMPUTER SYSTEMS PVT.LTD



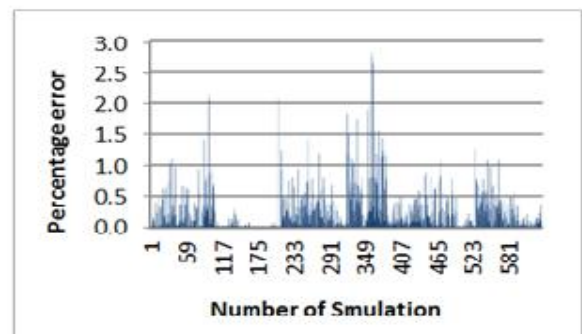
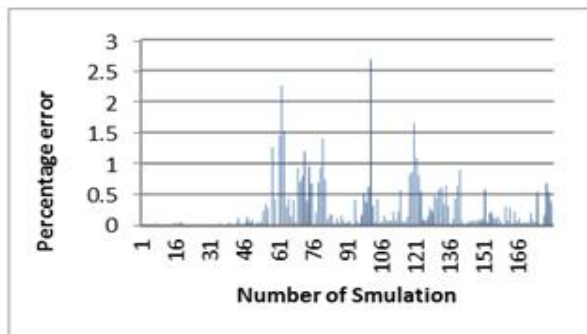
Objective/Motivation

This paper shows the model of fault location for underground power cable using embedded systems . The aim of this project is to determine the distance of underground power cable fault in kilometers .This project uses the simple concept of ohm's law .When any fault like short circuit occurs , voltage drop will vary depending on the length of fault in cable ,since the current varies . thus a model of power cable is subjected to fault and this fault is detected the change in voltage using the analog to voltage converter and microcontroller is used to make the calculations so that the fault distance is displayed on the LCD display.

Results

The objective of this project is to detect the exact location of short circuit fault in the underground cable from feeder end in km by using microcontroller. For this we use simple concept of OHM's law so fault can be easily detected and repaired.we detect only the location of short circuit fault in underground cable line, but we also detect the location of open circuit fault, to detect the open circuit fault capacitor is used in ac circuit which measure the change in impedance & calculate the distance of fault.

Keywords: *fault detection, power cable, embedded system*



Every Batch/Single student should submit

- 1. Project Kit**
- 2. Soft Copy with YouTube Video & Link & 1 Page Report**
- 3. Project Report (Hard Copy)**

Note: For getting NO DUE sign from KRC all the above mentioned formalities should be completed.

