D. J. SANGHVI COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS ENGINEERING
ELX302: ELECTRONIC DEVICES AND CIRCUITS 1 SEM III
MINI-PROJECT REPORT FORMAT

25th **October, 2017**

1. **Mini project report should be atleast 4 pages** *(excluding Title page and Table of contents)*, **but not more than 6 pages**

2. **Adhere to Title page specimen**

1. **Objectives of Mini - project are**

   1) To develop an understanding of the characteristics of semiconductor devices and learn to apply them in applications.

   2) To develop skills in analysis and design of electronic discrete circuits

   3) To introduce students to the various elements of the engineering design process, including formulation of specifications, analysis of alternative solutions, synthesis, decision-making, iterations, consideration of cost factors, simulation, and tolerance issues

2. **Instructions for preparation of Mini-Project Reports**

   a) **Title page** : Authors name,main supervisor, Laboratory / Department address.

   b) **Introduction**: 250-400 words (= half or one page Times Roman 12 pitch double-spaced). **Expectation:** This should provide a concise and fairly specific background to the project, and the hypothesis / questions specifically being addressed.

   c) **Objective**: 3 to 4 lines (Times Roman 12 pitch double-spaced). This should clearly mention objective of the project.

   d) **Circuit Diagram**: It should be neatly hand drawn with pen or pencil covering at least half the page.

   e) **Approach/Methodology/working**: 250-400 words (= half or one page Times Roman 12 pitch double-spaced). **Expectation:** This should provide sufficient detail (or reference to sufficient detail) to allow another worker to carry out the same experiments.

   f) **Results**: 250-400 words (= half or one page Times Roman 12 pitch double-spaced). **Expectation:** This should provide a concise account of the results obtained, in a logical order that hopefully tells a story. This will not necessarily be the order in which you carried out the experiments. Make maximum use of figures / tables - remember a picture often replaces a thousand words.

   g) **References**: (30 to 50 words = 5 pages Times Roman 12 pitch double-spaced). **Expectation:** Please provide these in a standard format (i.e. all the same throughout the list!), and include authors, year, title of paper, journal, volume, and first and last page numbers. You may use numbers throughout the text for your references. If one uses Internet for resource, add the reference as per proper format. 1-2 references should be adequate

   h) **Figures and Table legends**: Please make sure that sufficient detail is provided in the legend for the reader to understand the figure or table fully without reference to the text. Figure legends go at the bottom of the figure. Table legends go at the top of the table.

3. **Arrangement of Contents**:

   The sequence in which the project report material should be arranged and bound should be as follows:

   1. Title Page *(1st page)*

   2. Table of Contents *(2nd page)*

   3. List of Tables *(if any)*

   4. List of Figures *(if any)*

   5. Introduction *(Report starts here, New page)*

   6. Objective *(can continue on new page or same page but different paragraph)*

   7. Circuit Diagram *(can continue on new page or same page but different paragraph)*

   8. Working/Approach *(can continue on new page or same page but different paragraph)*

   9. Results *(new page)*

   10. References *(can continue on new page or same page but different paragraph)*

   The table and figures shall be introduced in the appropriate places.

4. **Table of Contents**:

   The table of contents should list all material following it as well as any material which precedes it.

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