



**THE VIRTUAL LABORATORY  
(DEFLECTION OF SIMPLY SUPPORTED BEAM)**

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## **CHAPTER I**

### **INTRODUCTION**

#### **1.1 BACKGROUND**

There are many reasons why we need to use virtual laboratory. One of the reasons is as a training and development of engineers. Furthermore, the expensive laboratory equipment can be one of the main factors. That is because not many institutions can afford to buy expensive equipment. Virtual laboratory can be used for geographically distributed places. It means that people from all over the place, all around the world can access virtual laboratory and conduct the same experiment by the help of Internet. Advances in information technology and computers make the virtual laboratory possible to develop and exploit.

#### **1.2 OBJECTIVES**

The main and important objective of this project is to learn and understand what Virtual Laboratory is all about. By applying our understanding in Virtual Laboratory, we need to develop a virtual laboratory case study using Visual Basic software. We can choose from variety range of experiments done in laboratory manually and converting it to Virtual Laboratory. In this project, the particular