

**Laboratory Activity 1:**  
**Vernier Caliper and Micrometer Caliper**

**I. Objective**

The aim of the activity is to learn the use of vernier caliper and micrometer caliper for accurate measurement of length.

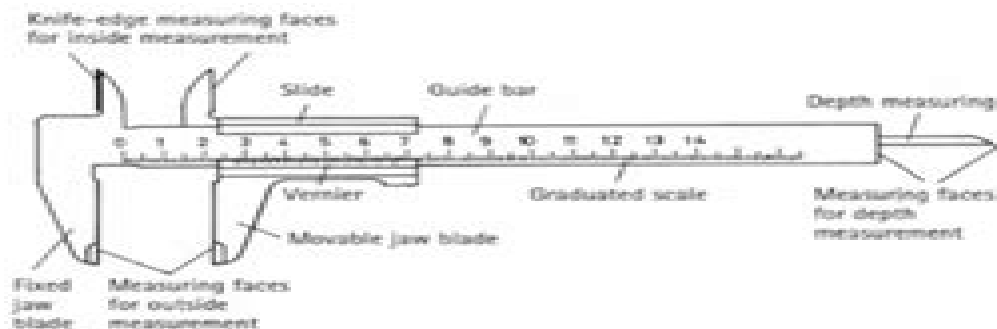
**II. Topic Learning Outcome**

- The students should be able to use vernier caliper and micrometer caliper to measure the dimensions of a solid figure (diameter, height, and width)

**III. Discussion**

Vernier caliper has two scales: main scale and vernier scale. The two scales are divided into small divisions with different magnitudes. The difference in the magnitudes of main scale division and vernier scale division is called the least count or vernier constant. It is the smallest distance that can be measured using the instrument. Figure 1. Parts of vernier caliper is shown below.

$$\text{Least Count} = \frac{\text{magnitude of the smallest division on main scale}}{\text{total number of small division on vernier scale}}$$



**Figure 1 Parts of Vernier Caliper**

Another measuring device is called micrometer caliper. Figure 2. Parts of micrometer caliper is shown below.

# Laboratory Activity 1 Botanus Lab Answer

**Marcel A. Müller**



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