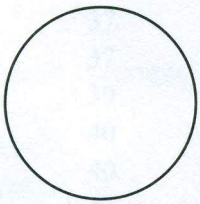
1.3 Engineering Drawing is a Way of Communication



Look at the figure on your right side. What do you think? Think again. How do you reflect? Isn't it obvious that it is a circle? Yes, you are right. It is similar to a circle or a ring. Yet it could be other things. It could be a ball, or the sun or the moon or something else. Now it must be puzzling, and therefore we need more information to be certain.

For example,

if someone had written some unseen words or letters without any grammar and moreover they are not even in the dictionary, then could anyone be able to understand it?

Therefore, we need a standard graphical language for Engineering Drawing with all the grammatical rules and vocabulary and other standards so that anyone with knowledge could understand. Now look at some standard definitions.

Engineering Drawing

"Engineering drawing is a formal and precise way of communicating information about the shape, size, features and precision of physical objects [52]."

"A graphical language used by engineers and other technical personnel associated with the engineering profession. The purpose of engineering drawing is to convey graphically the ideas and information necessary for the construction or analysis of machines, structures, or systems."[2]

"Drafting also spelled draughting, also called engineering drawing is a graphical representation of structures, machines, and their component parts that communicates the engineering intent of a technical design to the craftsman or worker who makes the product."[3]

"An engineering drawing is a type of drawing that is technical in nature, used to fully and clearly define requirements for engineered items, and is usually created in accordance with standardized conventions for layout, nomenclature, interpretation, appearance (such as typefaces and line styles), size, etc. Engineering drawings are often referred to as 'blueprints.' However, the term is an anachronism, and is due to the fact that most copies of engineering drawings were formerly made using a chemical printing process that yielded graphics on blue-colored paper."[4]

"Engineering Graphics (EG) is the language used by engineers to communicate the ideas and information necessary for the construction of engineering devices and systems."[5]

Main Drawing Equipments

Now you need to start doing some drawings. Therefore gather the following items

- Drafting pencils or Lead pencils [2B and HB]
- Set Squares [i.e., 30^0 - 60^0 drawing triangle and 45^0 drawing triangle]
- Compass, dividers and card board scale (Optional)
- T square [i.e. "T" shape scale, 32" standard available in Bangladesh]