



## AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH (AIUB)

Faculty of Engineering

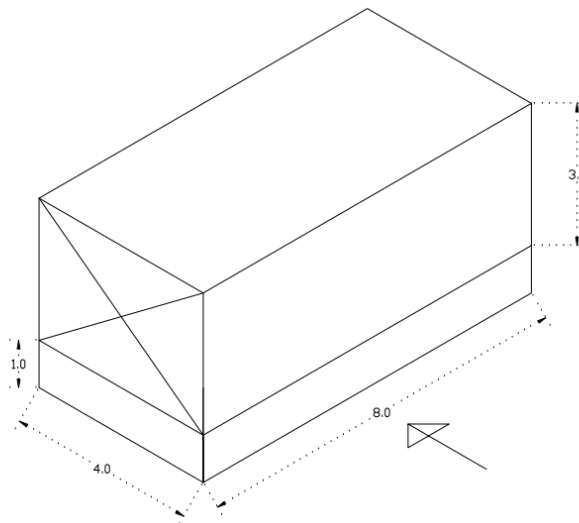
Bachelor of Science in Electrical and Electronic Engineering (EEE)

BAE 2101: Computer Aided Design and Electrical Drafting

### Experiment # 02: Analyze and draw the orthographic view from isometric view based on projection criteria using AutoCAD Software – Part I.

**Objective:** To familiarize the students with the orthographic and isometric projection in engineering drawing based on projection criterion.

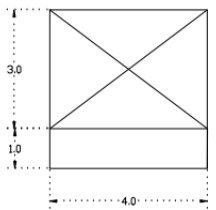
Example 2.1: Isometric to Orthographic Projection (Third Angle Projection). All units are in cm.



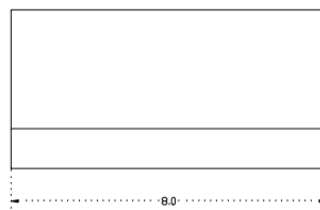
ISOMETRIC PROJECTION



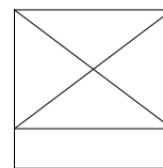
TOP VIEW



LEFT VIEW



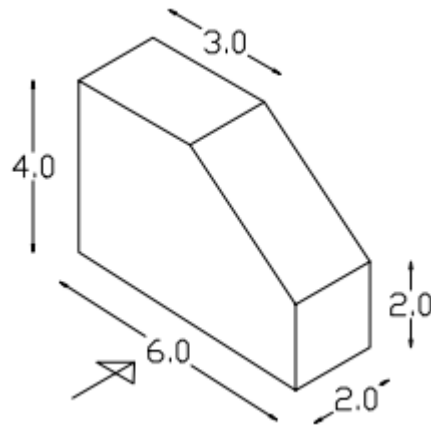
FRONT VIEW



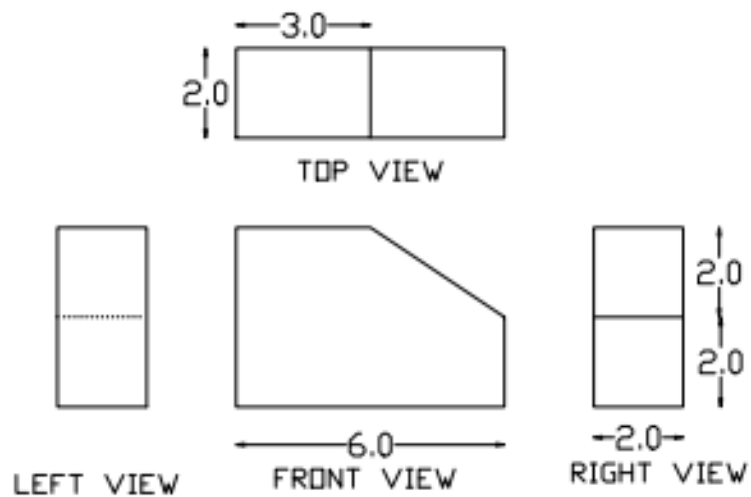
RIGHT VIEW

ORTHOGRAPHIC PROJECTION

Example 2.2: Isometric to Orthographic Projection (Third Angle Projection). All units are in cm.

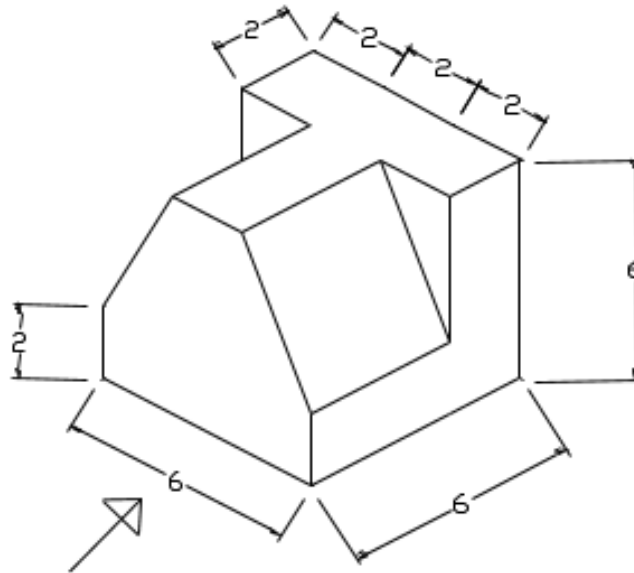


ISOMETRIC PROJECTION

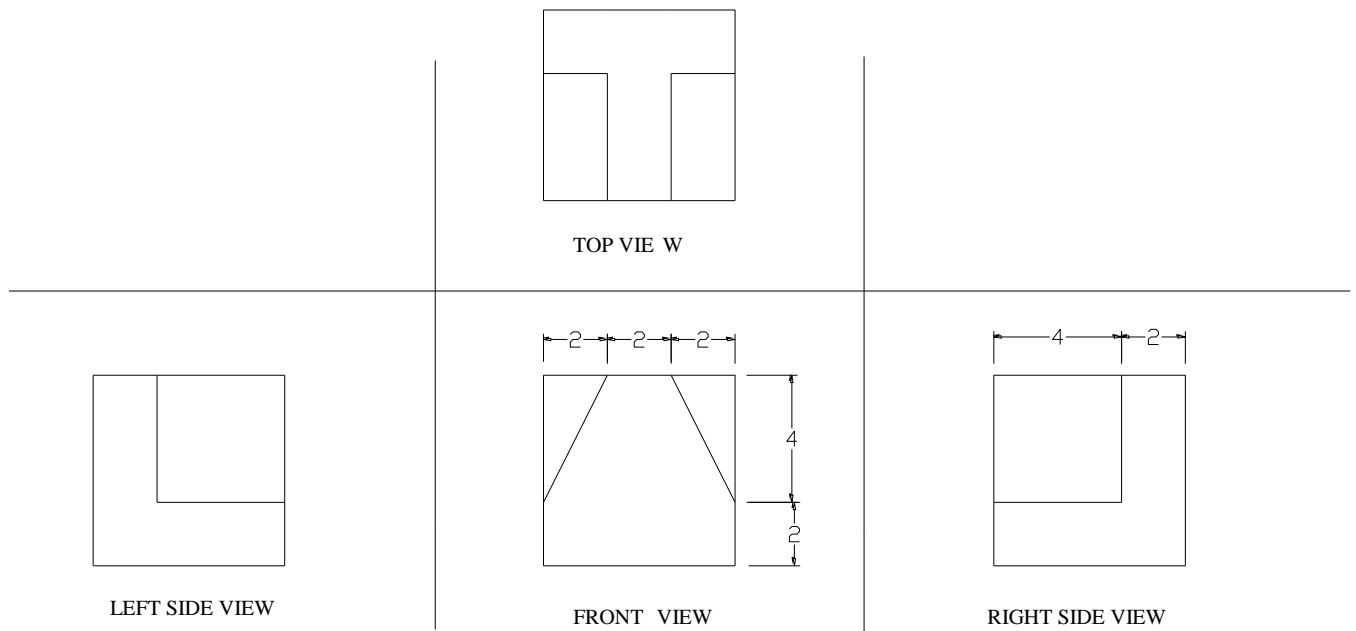


ORTHOGRAPHIC PROJECTION

Example 2.3: Isometric to Orthographic Projection (Third Angle Projection). All units are in cm.

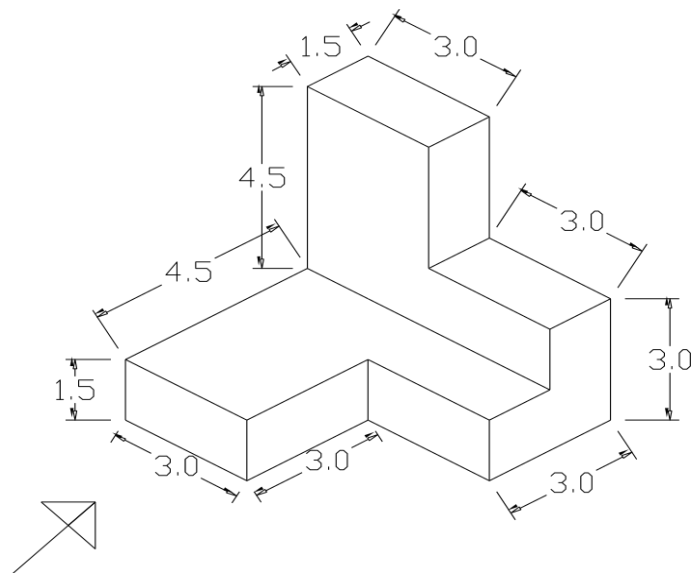


ISOMETRIC PROJECTION

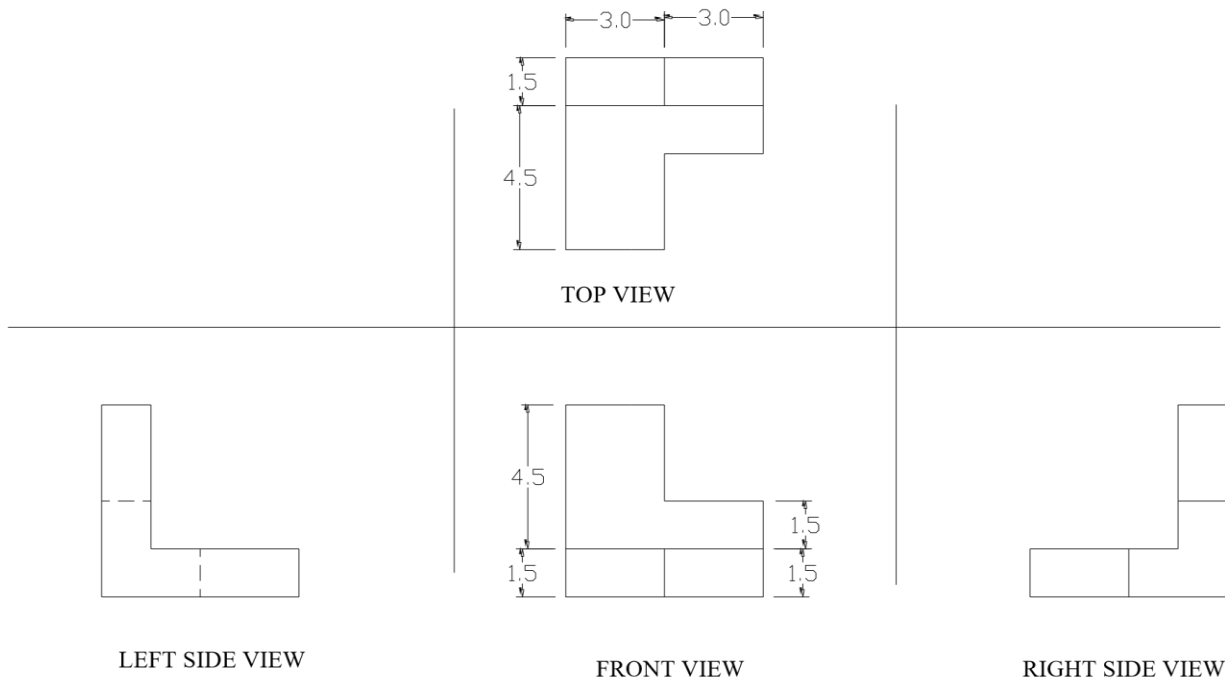


ORTHOGRAPHIC PROJECTION

Example 2.4: Isometric to Orthographic Projection (Third Angle Projection). All units are in cm.

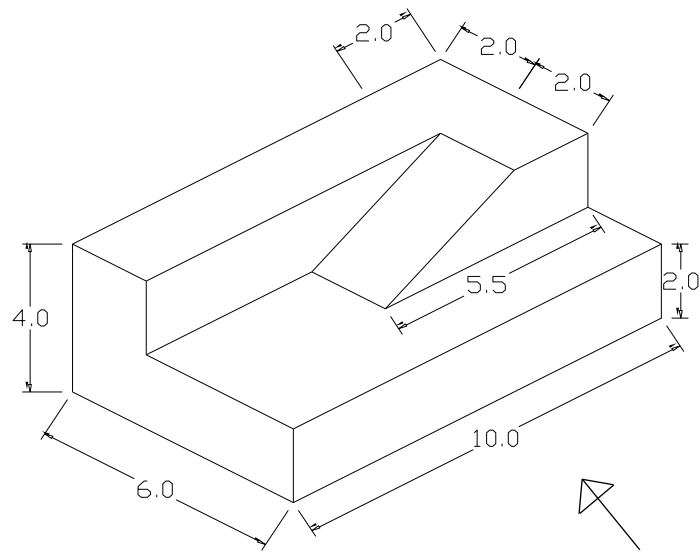


ISOMETRIC PROJECTION

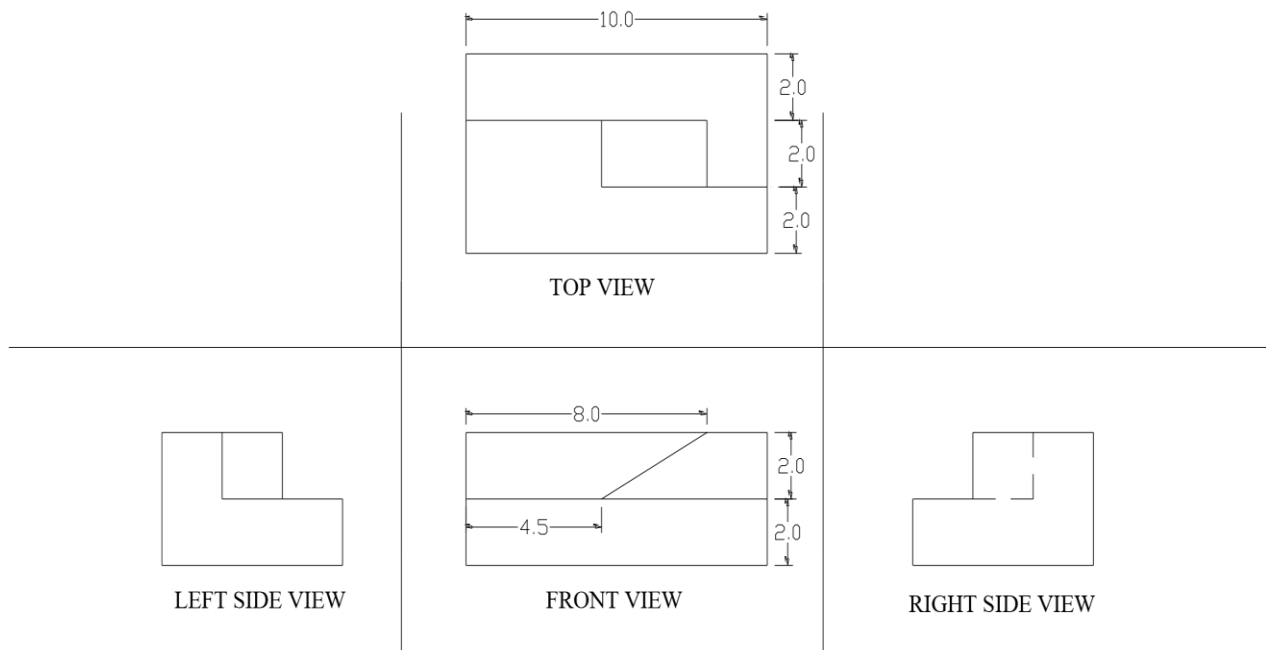


ORTHOGRAPHIC PROJECTION

Example 2.5: Isometric to Orthographic Projection (Third Angle Projection). All units are in cm.



ISOMETRIC PROJECTION



ORTHOGRAPHIC PROJECTION

### Reference

- [1] “AutoCAD 2007 For Dummies” by David Byrnes and Mark Middlebrook.
- [2] “Lesson Plans for Engineering Graphics” by Jeyapoovan T.