GL4: Technical Sketching

- Laboratory sessions
  - Drawing Offices, 3rd-floor Bldg D
  - Times
    - Tuesday 9:00 - 11:00, 2:15 – 4:15
    - Wednesday 9:00 - 11:00
    - Thursday 11:00 - 1:00
    - Friday 2:15 - 4:15
- Lab Groups
  - Subject web page
Technical sketching: purposes

- ideation
- problem solving
- pictorial communication
- multiview specification
Projections

- perspective
- oblique
- axonometric, e.g. isometric
- orthogonal, multiview
Techniques

• line types
• line precedence
• straight lines
• circles
• ellipses
• blocking
• grid paper
• shape primitives
Examples

• tape dispenser - oblique
• hand drill - isometric
• lecture table
Fig. 1.
ISOMETRIC SKETCHES OF
LECTURE TABLE AND
ASSOCIATED EQUIPMENT.
(Not to scale)

For further information re
position and dimensions
of table pivot bracket,
see installation in E1.

Dimensions in mm
unless otherwise
specified.

Distance
from CL of
bracket to
side of table.

Bracket

Support plate
60 x 30 x 4.
Height above
floor to suit
table slope.

All filler welds
are 3 mm.

Support plate
60 x 30 x 4.
Height above
floor to suit
table slope.

Support plate
60 x 30 x 4.
Height above
floor to suit
table slope.

Support plate
60 x 30 x 4.
Height above
floor to suit
table slope.

Support plate
60 x 30 x 4.
Height above
floor to suit
table slope.

Support plate
60 x 30 x 4.
Height above
floor to suit
table slope.

Support plate
60 x 30 x 4.
Height above
floor to suit
table slope.

Support plate
60 x 30 x 4.
Height above
floor to suit
table slope.

Support plate
60 x 30 x 4.
Height above
floor to suit
table slope.

Support plate
60 x 30 x 4.
Height above
floor to suit
table slope.
Exam question: sem 1, 1999

Given the three standard orthogonal projections of an object in figure 2, make neat sketches of isometric and oblique projections of the object. Dimensions may be scaled from the figure. Do not erase any construction lines used.
Given the three standard orthogonal projections of an object in figure 2, make neat sketches of isometric and oblique projections of the object. Dimensions may be scaled from the figure. Do not erase any construction lines used.
Follow up

• Read Bertoline:
  - Chapter 4

• Do problems from Bertoline:
  - Probs 4.3(11)(13), 4.12, 4.13

• Prepare for Lab D1: Sketching
  - Read Introduction to Lab Work
  - Read instructions for D1
  - Do the field work and draft sketches before the lab session