

**Subject : Technical Drawing**

**Facilitator : Robert Bersch**

**Grade Level: 9-12**

TIMELINE	CONTENT	SKILLS	ASSESSMENT	NJCCCS
SEPTEMBER – OCTOBER	<ul style="list-style-type: none"><li>• Use and care of traditional drafting equipment.</li><li>• Safety in the lab</li><li>• Construct 2-D drawing</li><li>• Use vertical block lettering</li><li>• Drafting geometry</li><li>• Using geometric constructions</li> <li>• Solve orthographic drawing problems</li><li>• Using various line-types</li><li>• CAD – introduction</li><li>• Use CAD to solve 2-D problems</li></ul>	<ul style="list-style-type: none"><li>• Practice using by constructing various lines.</li><li>• Practice safe working habits every class period.</li><li>• Use problem-solving skills to construct 2-D drawings.</li><li>• Practice letters/numbers.</li><li>• Use to letter title block.</li><li>• Practice solving geometric constructions, i.e. tangent arcs.</li><li>• Solve practical problems using geometric constructions.</li> <li>• Construct various orthographic drawings.</li><li>• Apply center and hidden lines to drawings.</li><li>• Discuss concept and hardware.</li><li>• Construct same problems as with traditional drafting style.</li></ul>	<ul style="list-style-type: none"><li>• Evaluation of 2-D drawings</li><li>• Evaluation of practical solution to geometric problems</li><li>• Evaluate accuracy of orthographic drawings criterial, linework, accuracy, lettering</li></ul>	2.1 3.1 4.9 4.2
OCTOBER	<ul style="list-style-type: none"><li>• 11. Use CAD to solve orthographic problems</li></ul>		<ul style="list-style-type: none"><li>• Evaluate accuracy of orthographic drawings</li></ul>	2.9

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NOVEMBER – DECEMBER	<ul style="list-style-type: none"><li>• Use CAD to solve orthographic sectioning problems</li><li>• Use CAD to solve auxiliary view problems</li></ul>	<ul style="list-style-type: none"><li>• Construct various section drawings including full, half, broken types.</li><li>• Construct various auxiliary view problems.</li></ul>	<ul style="list-style-type: none"><li>• Evaluate accuracy of sectional drawings</li><li>• Evaluate accuracy of auxiliary-view drawings</li></ul>	3.1
JANUARY – MARCH	<ul style="list-style-type: none"><li>• 14. Use CAD to solve oblique type problems</li></ul>	<ul style="list-style-type: none"><li>• Construct various oblique problems projecting on various axes – 30°, 60°, and 45°.</li></ul>	<ul style="list-style-type: none"><li>• Evaluate accuracy of oblique drawings</li></ul>	3.1
APRIL – MAY	<ul style="list-style-type: none"><li>• Use CAD to solve isometric type problems</li><li>• Review for final exam</li></ul>	<ul style="list-style-type: none"><li>• Construct various isometric problems projected on a 30° axis.</li><li>• Complete problems from each area of curriculum.</li></ul>	<ul style="list-style-type: none"><li>• Evaluate accuracy of isometric drawings</li></ul>	3.1

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