

	<p align="center">VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS-CBCS) <u>DEPARTMENT OF MECHANICAL ENGINEERING</u> B.E. I – SEMESTER, 2021-22</p>	<p align="center">CSE-A</p>
<p align="center">SHEET # 7</p>	<p align="center">UI21ES030CE :: BASIC ENGINEERING DRAWING PROJECTION OF SOLIDS-I (PYRAMIDS AND CONE)</p>	

6.1	Draw the projections of a tetrahedron of 65 mm side resting on the HP on one of its triangular faces with one of the base edges parallel to and 20 mm in front of the VP.
6.2	A triangular pyramid of base side 40 mm and axis 65 mm long, has its base on the HP and an edge of the base inclined at 45° to the VP, the apex 40 mm in front of the VP. Draw the <i>projections</i> .
6.3	A pentagonal pyramid of base side 35 mm and axis 55 mm long has its base in the VP and an edge of the base in the HP. Draw the <i>projections</i> .
6.4	A hexagonal pyramid of side 35 mm and axis 65 mm long has its base on the HP and a side of the base parallel to and 25 mm in front of the VP. Draw the <i>projections</i> .
6.5	Draw the <i>projections</i> of a cone of 50 mm diameter and axis 65 mm long, having its apex in the HP, axis vertical and 40 mm in front of the VP.
6.6	Draw the projections of a tetrahedron of side 60 mm when the axis is inclined with the HP such that a triangular face is vertical.
6.7	Draw the projections of a tetrahedron of side 60 mm resting on the VP on a base edge when the axis is inclined with the VP and the triangular face contained by the edge is perpendicular to the VP.
6.8	A pentagonal pyramid of base edge 35 mm and axis 65 mm long rests on triangular face with the axis parallel to the VP. Draw the projections of the solid.
6.9	A pentagonal pyramid of 40 mm side and axis 65 mm long rests on the HP on one of its base edges such that the apex is 55 mm above the ground. Draw the <i>projections</i> of the solid.
6.10	A hexagonal pyramid of base edge 35 mm and axis 65mm long lies on the VP on a slant edge with the axis is parallel to the HP. Draw the projections of the solid.
6.11	Draw the <i>projections</i> of a cone , base 50 mm diameter and axis 65 mm long when the axis inclined at 30° to the HP.
6.12	Draw the <i>projections</i> of a cone , base 50 mm diameter and axis 65 mm long, having one of its generators on the HP and parallel to the VP