

	<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 # 6</p>	<p align="center">UI21ES030CE :: BASIC ENGINEERING DRAWING PROJECTION OF SOLIDS-I (PRISMS AND CYLINDER)</p>	

6.1	Draw the <i>projections</i> of a square prism of side <i>40 mm</i> and axis <i>70 mm</i> long, having its base on the HP, a side of the base inclined at 30° to the VP and the axis <i>50 mm</i> in front of the VP.
6.2	A pentagonal prism of base side <i>40 mm</i> and axis <i>65 mm</i> long has a rectangular face parallel to and <i>10 mm</i> above the HP, axis perpendicular to the VP with one base on the VP. Draw the <i>projections</i> .
6.3	Draw the <i>projections</i> of a cylinder of <i>50 mm</i> diameter and axis <i>70 mm</i> long and perpendicular to the VP and <i>40 mm</i> above the HP, one base <i>20 mm</i> in front of the VP.
6.4	A Cube of <i>50 mm</i> long edges is resting on the HP with its vertical faces equally inclined to the VP. Draw its projections.
6.5	A Hexagonal prism has one of its rectangular faces parallel to the HP. Its axis perpendicular to the VP and <i>35 mm</i> above HP. Draw the <i>projections</i> .
6.6	A square prism of base <i>40 mm</i> side and height <i>65 mm</i> resting on a base edge has its axis inclined at 45° to the HP. Draw its <i>projections</i> .
6.7	A pentagonal prism of base edge <i>35 mm</i> and axis <i>65 mm</i> long lies on the VP on a longer edge and the axis inclined at 30° to the HP. Draw the projections of the solid.
6.8	Draw the projections of a pentagonal prism with base side of <i>25 mm</i> and axis <i>50 mm</i> long, resting on one of its rectangular faces on HP and with the axis inclined at 45° to the VP
6.9	A pentagonal prism of base <i>35 mm</i> and axis <i>65 mm</i> long rests on the HP on one of the corners of the base. The longer edge containing that corner is inclined at 45° to the HP. Draw the <i>projections</i> of the solid.
6.10	A hexagonal prism of base edge <i>35 mm</i> and axis <i>65 mm</i> long lies on the HP on a rectangular face with the axis inclined at 45° with the VP. Draw the projections of the solid.
6.11	A hexagonal prism of base <i>30 mm</i> and axis <i>50 mm</i> long has an edge of the base on HP. Its axis makes an angle of 60° with the HP and parallel to VP. Draw its <i>projections</i> .
6.12	Draw the <i>projections</i> of a cylinder of <i>50 mm</i> diameter and <i>65 mm</i> long, lying on the ground with its axis inclined at 30° to the VP and <i>parallel</i> to the ground.