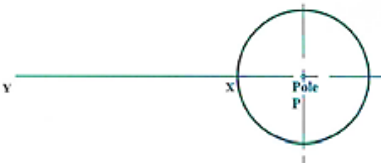

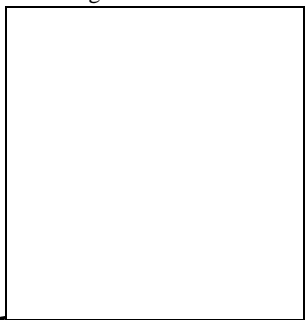
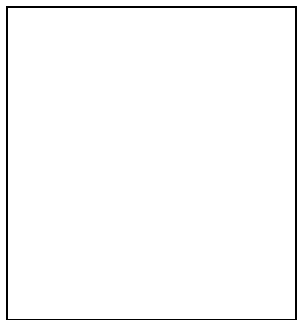


SANGAM SKM COLLEGE – NADI
TECHNICAL DRAWING – YEAR 12 WORKSHEETS
2021

WEEK 2

TOPIC: PLANE GEOMETRY

DATE: 31/05/21 To 04/06/21

<p>MONDAY (31/05) PLANE GEOMETRY</p> <p>1. DEFINE SPIRAL : _____ _____</p> <p>2. List two career paths for Technical Drawing _____ _____</p> <p>3. Sketch a CONICAL SPIRAL</p>	<p>TUESDAY (01/06) SPIRALS Given pole P Limiting vectors X and Y. Draw the ARCHIMEDIAN SPIRAL (Sense : clockwise)</p> <div style="text-align: center;">  </div>	<p>WEDNESDAY (02/06) INVOLUTE Draw the involute of the given Triangle (clockwise)</p> <div style="text-align: center;">  </div>			
<p>THURSDAY (03/06) SCALES Given for the Diagonal Reduction Scale of 1:50 to read Metres and Tenths of a Metre up to 3 metres Do all the necessary calculations (note do not draw the scale)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">SCALE LENGTH</td> </tr> <tr> <td style="padding: 5px;">SCALE INTERVAL</td> </tr> <tr> <td style="padding: 5px;">NO OF PARTS</td> </tr> </table>	SCALE LENGTH	SCALE INTERVAL	NO OF PARTS	<p>FRIDAY(04/06) HELIX</p> <p>1. Define common terms related to helix</p> <ul style="list-style-type: none"> • Pitch _____ • Revolutions _____ • πD _____ <p>2. Construct a Right and Left hand helical curve for one revolution (single line helix)</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>Right Hand Helix</p>  <p>Start Point</p> </div> <div style="text-align: center;"> <p>Left Hand Helix</p>  <p>Start Point</p> </div> </div>	
SCALE LENGTH					
SCALE INTERVAL					
NO OF PARTS					

(NOTE: REFERENCE: Refer to TD lesson notes and TD workbook)

TECHNICAL DRAWING – YEAR 12

2021

WEEK 3

TOPIC: PLANE GEOMETRY

DATE: 07/06/21 To 11/06/21

MONDAY (07/06) HELIX (Write the steps carried out)

A _____

B _____

C _____

D _____

TUESDAY (08/06) CIRCULAR SPRING
 Draw the right hand circular helical spring
 (3/4 revolutions)

WEDNESDAY (09/06) FLAT PLATE
 Draw external tangent to two unequal circles given below (Given answer is not to scale)

THURSDAY (10/06) CONIC SECTION

- Name five types of Conic sections.

- Find the value for DV if DF is 20mm for a Parabola.

- Find FV of a parabola with a ratio of eccentricity of 6:4 and DV is 8mm.

FRIDAY (11/06) CONIC SECTION (Find DVF and complete the elevation of the cone) Note: Complete the conic
The diagram on the right shows Part working to help you out

(NOTE: REFERENCE: Refer to TD lesson notes and TD workbook)