TECHNICAL DRAWING SCHEME
CLASS: - SS1

SN	TOPICS	CONTENT
1.	Drawing materials and Equipment	- Definition of Technical Drawing. - Identification and uses of drawing materials and equipment.
2.	Board Practice	- Technique of fixing drawing sheet to the board; Border lines and title block; freehand lettering
3.	Safe Working Habits	- Safe use of drawing instruments and materials. Clean habits, proper illumination and ventilation.
4.	Lines and Line Work	- Types, uses and properties of lines, - Drawing of parallel and incline lines; Bisection and division of lines.
5.	Angles and Triangles	- Types of angles, construction of angles e.g. reflex, acute, obtuse etc.
6.	Circle and Triangles	- Circle and its parts, Types of circle, inscribe, circumscribe and escribes.
7.	Quadrilaterals	Quadrilaterals, Types and construction of quadrilaterals.
8.	Polygons	Regular & Irregular polygon; Types of polygon and construction of polygon
9.	Scales	Scale and its uses, construction of scale: plain and diagonal

10.	Scales	Construction of diagonal scale
11.	Enlargement and Reduction of plane figures	- Application of Enlargement & Reducing, - Reduction and enlargement of triangles, quadrilaterals, polygon etc
12.	Equal Areas of Similar figures.	- Theorems of equal areas; construction of areas e.g. triangles etc.
13.	Tangents and Tangency	Principle and application of tangency construction of tangents to: - a point on the circumference of a circle; two unequal circles.
14.	Tangents and tangency	Construction of tangents involving internal and external arcs.

15.	Special curves	Locus of ellipse: concentric circle methods, focal point methods and rectangle method Construction of cycloids and trochoids and their applications
16.	True lengths and surface development	Meaning and application of development; determination of true length surface development of prisms. Surface development of full and truncated cones, pyramid and cylinders
17	Dimensioning Techniques	Methods of dimensioning: circles, arcs, chamfers, horizontal, vertical & angular shapes
18.	Isometric Drawing	Meaning, axes and construction of isometric squares, rectangle and circles Construction of simple blocks in isometric drawing.