

## BASIC TECHNOLOGY SCHEME J.S.1

S/N	TOPIC	CONTENT
1	Introduction to	Definition, effect, range, importance, advantage,
	technology.	disadvantage, technological subject, basic
		technological areas, classes of technology and
		difference between the classes.
2	Workshop safety,	Causes of accident in the workshop, accident
	rules and	prevention techniques, safety device measures, and
	regulations.	fire outbreak in the workshop layout.
3(a)	Materials- wood	Identification of wood materials, classification of
		properties of wood materials, processing of wood,
		veneering and manufactured board as well as use of
		wood.
3(b)	Metals	Identification/ properties, classes, processing, forms
		of metal, forms of steel, casting, alloys, alloy steel
		and use of ferrous metals and nonferrous metals and
		the alloys.
3(c)	Ceramics	Identification/ properties, processing, uses, and
		ceramic products.
3(d)	Plastic	Definition/ properties, processing, uses, products and
		classes.
3(e)	Rubber	Definition/ properties, processing, uses, products and
		classes.
4	Drawing practice	Introduction to technical drawing, drawing
		instruments and materials, freehand sketching, scale
		drawing, lettering and board practice.
5	Wood work and	Work bench and its appliance, measuring tools,
	hand tools.	marking out tools (setting out tools), driving tools,
		boring tools, wood work cutting and parting tools.
6	Energy and power.	Concept of energy, conservation of energy, properties
		of energy, forms and sources of energy, concept of
		power and calculations based on energy and power.
7	Machines	Definition, types, lever(parts and types), pulley,
		wedge, incline plane, screw jack, mechanical
		advantage, velocity ratio and efficiency of machines.

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8	Machine	Definition, types and importance.
	maintenance	
9	Basic concept of electricity.	Structure of atoms, electric charge, concept of electric current, electromagnetic force, potential difference, resistance, capacitor, factors  Affecting capacitors and types of capacitors.
10	Magnets	Magnetic fields, laws of magnetism, methods of making magnets, conductors, Lenz law, Maxwell rule, Relationship between electricity and magnetism, loudspeaker and electronic works.
11	Food	-
(a)	Storage	Definition, advantages and storage methods.
(b)	Preservation	Definition, methods of preservation and importance.