



GURUKUL ITI- 1st YEAR WC&SCI BREAK UP SYLLABUS

Mr. Lokesh Kumawat

Week	Date	Topics	Remarks
1	05-Aug-19	Fractions, Decimal fraction, L.C.M., H.C.F., Multiplication and Division of Fractions and Decimals	
2	12-Aug-19	Conversion of Fraction to Decimal and vice versa	
3	19-Aug-19	Simple problems using Scientific Calculator	
4	26-Aug-19	Square and Square Root	
5	02-Sep-19	Method of finding out square roots	
6	09-Sep-19	Simple problem using calculator	
7	16-Sep-19	Simple calculation on related problems	
8	23-Sep-19	Introduction, Simple calculation	
9	30-Sep-19	Changing percentage to decimal and fraction and vice-versa	
10	07-Oct-19	Systems of unit- FPS	
11	14-Oct-19	CGS, MKS/SI unit, unit of length	
12	21-Oct-19	Mass and time, Conversion of units	
13	28-Oct-19	Properties Physical & Mechanical, Types – Ferrous & Non-Ferrous, difference between Ferrous and Non-Ferrous metals	
14	04-Nov-19	Introduction of Iron, Cast Iron, Wrought Iron, Steel, difference between Iron and Steel	
15	11-Nov-19	Alloy steel, carbon steel, stainless steel, Non-Ferrous metals, Nonferrous Alloys	
16	18-Nov-19	Mass, Unit of Mass, Weight, difference between mass and weight	
17	25-Nov-19	Density, unit of density, specific gravity of metals	
18	02-Dec-19	Rest and motion, speed, velocity, difference between speed and velocity	
19	09-Dec-19	Acceleration, retardation, equations of motions, simple related problems	
20	16-Dec-19	Work, unit of work, power, unit of power, Horse power of engines, mechanical efficiency	
21	23-Dec-19	Energy, use of energy, potential and kinetic energy, examples of potential energy and kinetic energy	
22	30-Dec-19	Addition, Subtraction, Multiplication, Division	
23	06-Jan-20	Algebraic formula, Linear equations (with two variables)	
24	13-Jan-20	Area and perimeter of square, rectangle, parallelogram, triangle, circle	
25	20-Jan-20	Semi-circle, Volume of solids – cube, cuboid, cylinder and Sphere	
26	27-Jan-20	Surface area of solids – cube, cuboid, cylinder and Sphere	
27	03-Feb-20	Trigonometrical ratios	
28	10-Feb-20	Measurement of angles	
29	17-Feb-20	Trigonometric tables	
30	24-Feb-20	Heat and temperature, their units, difference between heat and temperature	
31	02-Mar-20	Boiling point, melting point, scale of temperature, relation between different scale of temperature	
32	09-Mar-20	Thermometer, pyrometer, transmission of heat, conduction, convection, radiation	
33	16-Mar-20	Introduction, use of electricity, how electricity is produced	
34	23-Mar-20	Types of current_ AC, DC, their comparison, voltage, resistance, their units. Conductor, insulator, Types of connections – series, parallel	
35	30-Mar-20	Electric power, Horse power, energy, unit of electrical energy	
36	06-Apr-20	Levers and its types. Simple Machines	
37	13-Apr-20	Effort and Load, Mechanical Advantage, Velocity Ratio, Efficiency of machine	
38	20-Apr-20	Relationship between Efficiency, velocity ratio and Mechanical Advantage	
39-48	27-Apr to 30-Jun-20	Revision	