

2nd YEAR BREAK UP SYLLABUS			
Week	Date	WC&S	Remarks
1	05-Aug-19	Laws of indices related problems Part-1	
2	12-Aug-19	Laws of indices related problems Part-2	
3	19-Aug-19	Laws of indices related problems Part-3	
4	26-Aug-19	Introduction of Quadratic Equation	
5	02-Sep-19	Solution of simple Quadratic equation	
6	09-Sep-19	Quadratic equation related problems	
7	16-Sep-19	Solution of simple A.C. circuit	
8	23-Sep-19	Solution of simple A.C. circuit with R.L.C	
9	30-Sep-19	Calculation of power factor etc.	
10	07-Oct-19	Calculation of r.m.s, average, instantaneous value	
11	14-Oct-19	Peak value. Peak to peak value	
12	21-Oct-19	Frequency and wavelength calculation and their relationship	
13	28-Oct-19	1. Calculation Series and parallel connection of Resistors 2. Calculation Series and parallel connection of Capacitors.	
14	04-Nov-19	3. Calculation Series and parallel connection of Inductors. 4. Calculation Series and parallel connection of Batteries. Conversion of power flow to H.P. Calculation of KVA.	
15	11-Nov-19	Stress, strain, Modulus of elasticity, elastic limit, Hooks law, young's modulus	
16	18-Nov-19	Introduction, types and properties. Uses of Conducting, Semi-conducting and insulating materials.	
17	25-Nov-19	Magnetic material, magnetic field, flux density, magnetic moment, m.m.f. Reluctance, permeability, susceptibility, electromagnet, solenoid and its practical applications.	
18	02-Dec-19	Pneumatic pressure, PSI, bar, atmospheric pressure, pressure gauge and absolute pressure, Heat treatment process.	
19	09-Dec-19	Number system:- decimal and binary, Octal Hexa decimal.	
20	16-Dec-19	BCD code, conversion from decimal to binary and vice-versa	
21	23-Dec-19	All other conversions. Practice on conversions	
22	30-Dec-19	Simple estimation of the requirement of materials etc. as applicable to the trade. Problems on estimation and costing	
23	06-Jan-20	Volumes of frustums including conical frustums	
24	13-Jan-20	Graph- Basics, abscissa, co-ordinate etc. $Y = mx$ and $Y = mx + c$ graph	
25	20-Jan-20	Simple Problems on Profit	
26	27-Jan-20	Simple Problems on Loss	
27	03-Feb-20	Simple interest	
28	10-Feb-20	Compound interest	
29	17-Feb-20	Laws of friction, co- efficient of friction, angle of friction, simple problems related to friction, Lubrication	
30	24-Feb-20	Concept on terms like pressure, atomspheric pressure, gauge pressure	
31	02-Mar-20	Heat treatment necessity difference methods	
32	09-Mar-20	Resolution and composition of forces	
33	16-Mar-20	Representation of force by vectors, simple problems on lifting tackles like jib wall, crane-Solution of problems with the aid of vectors.	
34	23-Mar-20	General condition of equilibriums for series of forces on a body. Law of parallelogram, Triangle Law, Lami's theorem.	
35	30-Mar-20	Centre of gravity concept and C.G. of different lamina. Equilibrium different kinds stable, unstable and neutral.	
36	06-Apr-20	Law of parallelogram force. Triangle law, Lami's theorem stable, unstable and neutral equilibrium.	
37-48	13-Apr to 30-Jun-20	Revision	