Study Plan

RAC	
Topic	Timing
Basic Introduction	Recording-1
VCRS Intro + Ideal Refrigeration Cycle	Recording-2
VCRS Cycle Analysis (COP etc.)	Recording-3
VCRS Performance Analysis	Recording-4
Reverse Brayton (Bell-Coleman) Cycle	Recording-5
Cascade Refrigeration System	Recording-6
Refrigerants Definition	Recording-7
Properties of Refrigerants	Recording-8
Psychrometry Introduction	Recording-9
Psychrometric Chart Processes	Recording-10
Psychrometric Chart Numericals	Recording-11
Refrigeration Devices (Working & Material)	Recording-12

Industrial Engineering	
Topic	Timing
Introduction & BEA-1	Recording-1
Introduction & BEA-2	Recording-2
Inventory-1	Recording-3
Inventory-2	Recording-4
Inventory-3	Recording-5
Inventory-4	Recording-6
Sequencing-1	Recording-7
Sequencing-2	Recording-8
Sequencing-3	Recording-9
PERT & CPM-1	Recording-10
PERT & CPM-2	Recording-11
PERT & CPM-3	Recording-12
PERT & CPM-4	Recording-13
PERT & CPM-5	Recording-14
PERT & CPM-6	Recording-15
Forecasting-1	Recording-16
Forecasting-2	Recording-17
Forecasting-3	Recording-18
Forecasting-4	Recording-19
Queing Theory-1	Recording-20
Queing Theory-2	Recording-21
Linear programming-1	Recording-22
Linear programming-2	Recording-23
Linear programming-3	Recording-24
Transportation-1	Recording-25
Transportation-2	Recording-26

Heat and Mass Transfer	
Topic	Timing
Basic Introduction (Heat Transfer)	Recording-1
Conduction-1	Recording-2
Conduction-2	Recording-3
Conduction-3	Recording-4
Fins	Recording-5
Convection-1	Recording-6
Convection-2	Recording-7
Convection-3	Recording-8
Radiation-1	Recording-9
Radiation-2	Recording-10
Radiation-3	Recording-11

Fluid Mechanics	
Topic	Timing
Orientation	Recording-1
Basic introduction	Recording-2
Bulk modulus , Density	Recording-3
Specific gravity and Specific Weight	Recording-4
Viscosity	Recording-5
Newton law of viscosity	Recording-6
Fluid classification	Recording-7
Surface tension	Recording-8
Capillary	Recording-9
Basic , Types of pressure	Recording-10
Pascal and hydrostatic law	Recording-11
Pressure measuring device - 1	Recording-12
Pressure measuring device - 2	Recording-13
Basic concepts , principle of floatation	Recording-14
Stability condition of submerged body	Recording-15
Concept of metacentre	Recording-16
Stability condition of floating body	Recording-17
Hydro-static forces on plane	Recording-18
Hydro-static forces on curved surface	Recording-19
Basic and types of flow	Recording-20
Stream, path and streak line	Recording-21
Continuity equation	Recording-22
Velocity and stream function	Recording-23
Eulers , B.E equation	Recording-24
Application of B.E Equation	Recording-25
Basic introduction , shear stress and velcoity profile	Recording-26

Strength of Material	
Topic	Timing
Basic Introduction	Recording-1
Types of Loads & Classification-1	Recording-2
Types of Loads & Classification-2	Recording-3
Stress & Strain (Basics)-1	Recording-4
Stress & Strain (Basics)-2	Recording-5
Stress & Strain (Basics)-3	Recording-6
Stress-Strain Curve	Recording-7
Failure under Different Loading	Recording-8
Elastic Constants	Recording-9
Deformation (Series & Parallel)-1	Recording-10
Deformation (Series & Parallel)-2	Recording-11
Strain Energy due to Self Weight	Recording-12
Strain Energy-1	Recording-13
Strain Energy-2	Recording-14
Moment of Inertia-1	Recording-15
Moment of Inertia-2	Recording-16
Thermal Stress-1	Recording-17
Thermal Stress-2	Recording-18
Beams (CRM)-1	Recording-19
Beams (CRM)-2	Recording-20
Beams (CRM)-3	Recording-21
Bending in Beam-1	Recording-22
Bending in Beam-2	Recording-23
Bending in Beam-3	Recording-24
Torsion in Shaft-1	Recording-25
Torsion in Shaft-2	Recording-26

Production Engineering	
Topic	Timing
Welding-1	Recording-1
Welding-2	Recording-2
Welding-3	Recording-3
Welding-4	Recording-4
Welding-5	Recording-5
Casting-1	Recording-6
Casting-2	Recording-7
Casting-3	Recording-8
Casting-4	Recording-9
Casting-5	Recording-10
Metal Forming-1	Recording-11
Metal Forming-2	Recording-12
Metal Forming-3	Recording-13
Metal Forming-4	Recording-14
Metal Forming-5	Recording-15
Metrology-1	Recording-16
Metrology-2	Recording-17
Concept of MMT-1	Recording-18
Concept of MMT-2	Recording-19
Concept of MMT-3	Recording-20
Concept of MMT-4	Recording-21
Concept of MMT-5	Recording-22
Unconventional Machining-1	Recording-23
Unconventional Machining-2	Recording-24
Jigs & Fixtures	Recording-25
Metal Cutting-1	Recording-26

Engineering Mechanics	
Topic	Timing
Basic of forces-1	Recording-1
Basic of forces-2	Recording-2
Basic of forces-3	Recording-3
Basic of forces-4	Recording-4
Basic of forces-5	Recording-5
Types of beam-1	Recording-6
Types of beam-2	Recording-7
Concepts of friction-1	Recording-8
Concepts of friction -2	Recording-9
Concepts of friction -3	Recording-10
Moment of Inertia-1	Recording-11
Moment of Inertia-2	Recording-12
Moment of Inertia-3	Recording-13
Conservation of momentum and energy-1	Recording-14
Conservation of momentum and energy-2	Recording-15

Polity	
Topic	Timing
Introduction-1	Recording-1
The Union and its territories	Recording-2
Citizenship-1	Recording-3
Citizenship-2	Recording-4
Fundamental Rights-1	Recording-5
Fundamental Rights-2	Recording-6
DPSP-1	Recording-7
Fundamental Duties	Recording-8
The Union-1	Recording-9
The Union-2	Recording-10
The Union-3	Recording-11
The States-1	Recording-12
The States-2	Recording-13
The States-3	Recording-14
The States-4	Recording-15
The UTs, Panchayats and Muncipalities-1	Recording-16
The UTs, Panchayats and Muncipalities-2	Recording-17
The UTs, Panchayats and Muncipalities-3	Recording-18
1.The Scheduled and tribal areas 2. the realtionship between union and states	Recording-19
1. Finance, propeety and contracts 2. Trade and commerce 3. Services under union and states	Recording-20
Amendments-1	Recording-21
Amendments-2	Recording-22
1. Special provision for special categories 2. Offcial Language	Recording-23

Geography	
Topic	Timing
Introduction	Recording-1
Astronomy-1	Recording-2
Solar system-1	Recording-3
Topography-1	Recording-4
Division of India-1	Recording-5
Soil	Recording-6
Rocks	Recording-7
Forest	Recording-8
Climate	Recording-9
Pressure Belt	Recording-10
Wind	Recording-11
River origin	Recording-12
Miscellaneous	Recording-13

History	
Topic	Timing
Introduction	Recording-1
Jain and Bodh	Recording-2
Maurya Dyansty	Recording-3
Bhartiya Rajya	Recording-4
Videshi Rajya	Recording-5
Gupta Dynasty	Recording-6
Sangam South	Recording-7
Videshi Akram	Recording-8
Rajput	Recording-9
Delhi Sultanate	Recording-10
Vijay Nagar+Behman	Recording-11
Mughal	Recording-12
Post Mughal	Recording-13
European Companies	Recording-14
Bengal	Recording-15
Buxar	Recording-16
Anglo France	Recording-17
Anglo Maratha-1	Recording-18
Anglo Mysrore	Recording-19
Viceroy+Governor General-1	Recording-20
Congress-1	Recording-21
Bengali Vibhajan 1905	Recording-22
Swadeshi Andolan	Recording-23
Delhi Darbar	Recording-24
1910 to 1920-1	Recording-25
1920 to 1930-1	Recording-26

Maths	
Topic	Timing
Maths-1	Recording-1
Maths-2	Recording-2
Maths-3	Recording-3
Maths-4	Recording-4
Maths-5	Recording-5
Maths-6	Recording-6
Maths-7	Recording-7
Maths-8	Recording-8
Maths-9	Recording-9
Maths-10	Recording-10
Maths-11	Recording-11
Maths-12	Recording-12
Maths-13	Recording-13
Maths-14	Recording-14
Maths-15	Recording-15
Maths-16	Recording-16
Maths-17	Recording-17
Maths-18	Recording-18
Maths-19	Recording-19
Maths-20	Recording-20

Assignment-1	Recording-27
Assignment-2	Recording-28
MRP-1	Recording-29
MRP-2	Recording-30

Pressure drop , friction factor	Recording-27
Turbulent flow	Recording-28
Major , minor losses	Recording-29
Concept of equivalent pipe and maximum efficiency	Recording-30
Boundry layer thoery	Recording-31
Free Vortex motion	Recording-32
Forced Vortex motion	Recording-33
Similarity , dimensionless number	Recording-34
Miscellaneous	Recording-35
Miscellaneous	Recording-36
Miscellaneous	Recording-37

Combined Stresses-1	Recording-27
Combined Stresses-2	Recording-28
Combined Stresses-3	Recording-29
Mohr Circle-1	Recording-30
Mohr Circle-2	Recording-31
SFD & BMD-1	Recording-32
SFD & BMD-2	Recording-33
SFD & BMD-3	Recording-34
SFD & BMD-4	Recording-35
Slope & Deflection-1	Recording-36
Slope & Deflection-2	Recording-37
Columns & Struts	Recording-38
Thin & Thick Cylinder	Recording-39
Theory of Failure-1	Recording-40
Theory of Failure-2	Recording-41
Springs	Recording-42

Metal Cutting-2	Recording-27
Metal Cutting-3	Recording-28
Concept of MMT-1	Recording-29
Concept of MMT-2	Recording-30

1940 to 1947-1	Recording-27

