

## STUDY PLAN

| HEAT AND MASS TRANSFER             |              | RAC                                        |              | Production engineering |              | Fluid Mechanics                          |              |
|------------------------------------|--------------|--------------------------------------------|--------------|------------------------|--------------|------------------------------------------|--------------|
| Title                              | Timing       | Title                                      | Timing       | Title                  | Timing       | Title                                    | Timing       |
| Basic Introduction (Heat Transfer) | Recording-1  | Basic Introduction                         | Recording-1  | Welding-1              | Recording-1  | Introduction                             | Recording-1  |
| Conduction-1                       | Recording-2  | VCRS Intro + Ideal Refrigeration Cycle     | Recording-2  | Welding-2              | Recording-2  | Fluid Properties - Part 1                | Recording-2  |
| Conduction-2                       | Recording-3  | VCRS Cycle Analysis (COP etc.)             | Recording-3  | Welding-3              | Recording-3  | Fluid Properties - Part 2                | Recording-3  |
| Conduction-3                       | Recording-4  | VCRS Performance Analysis                  | Recording-4  | Welding-4              | Recording-4  | Newton's Law of Viscosity                | Recording-4  |
| Fins                               | Recording-5  | Reverse Brayton (Bell-Coleman) Cycle       | Recording-5  | Welding-5              | Recording-5  | Fluid Classification                     | Recording-5  |
| Convection-1                       | Recording-6  | Cascade Refrigeration System               | Recording-6  | Casting-1              | Recording-6  | MCQ Practice (Basics)                    | Recording-6  |
| Convection-2                       | Recording-7  | Refrigerants Definition                    | Recording-7  | Casting-2              | Recording-7  | Surface Tension & Capillarity - 1        | Recording-7  |
| Convection-3                       | Recording-8  | Properties of Refrigerants                 | Recording-8  | Casting-3              | Recording-8  | Surface Tension & Capillarity - 2        | Recording-8  |
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| Radiation-2                        | Recording-10 | Psychrometric Chart Processes              | Recording-10 | Casting-5              | Recording-10 | Pressure Laws                            | Recording-10 |
| Radiation-3                        | Recording-11 | Psychrometric Chart Numericals             | Recording-11 | Metal Forming-1        | Recording-11 | Pressure Measuring Devices               | Recording-11 |
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