

## STUDY PLAN

| Rahul Sir : Thermodynamics |                                                          |                | Rahul Sir : Fluid mechanics |  |  | Rahul Sir : Production Engineering |                  |                |
|----------------------------|----------------------------------------------------------|----------------|-----------------------------|--|--|------------------------------------|------------------|----------------|
| Date                       | Title                                                    | Timing         |                             |  |  | Date                               | Title            | Timing         |
| Monday, July 20, 2026      | Basic Introduction (System, Surroundings, Properties)    | 3 PM - 4.00 PM |                             |  |  | Monday, July 27, 2026              | Welding-1        | 4 PM - 5.00 PM |
| Tuesday, July 21, 2026     | Properties & Types of System                             | 3 PM - 4.00 PM |                             |  |  | Tuesday, July 28, 2026             | Welding-2        | 4 PM - 5.00 PM |
| Wednesday, July 22, 2026   | First Law of Thermodynamics - Part 1                     | 3 PM - 4.00 PM |                             |  |  | Wednesday, July 29, 2026           | Welding-3        | 4 PM - 5.00 PM |
| Thursday, July 23, 2026    | First Law of Thermodynamics - Part 2                     | 3 PM - 4.00 PM |                             |  |  | Thursday, July 30, 2026            | Welding-4        | 4 PM - 5.00 PM |
| Friday, July 24, 2026      | First Law of Thermodynamics - Part 3                     | 3 PM - 4.00 PM |                             |  |  | Friday, July 31, 2026              | Welding-5        | 4 PM - 5.00 PM |
| Monday, July 27, 2026      | First Law MCQ                                            | 3 PM - 4.00 PM |                             |  |  | Monday, August 3, 2026             | Casting-1        | 4 PM - 5.00 PM |
| Tuesday, July 28, 2026     | Steady Flow Energy Equation (SFEE) - Part 1              | 3 PM - 4.00 PM |                             |  |  | Tuesday, August 4, 2026            | Casting-2        | 4 PM - 5.00 PM |
| Wednesday, July 29, 2026   | Steady Flow Energy Equation (SFEE) - Part 2              | 3 PM - 4.00 PM |                             |  |  | Wednesday, August 5, 2026          | Casting-3        | 4 PM - 5.00 PM |
| Thursday, July 30, 2026    | Second Law Introduction                                  | 3 PM - 4.00 PM |                             |  |  | Thursday, August 6, 2026           | Casting-4        | 4 PM - 5.00 PM |
| Friday, July 31, 2026      | Kelvin Planck & Clausius Statements                      | 3 PM - 4.00 PM |                             |  |  | Friday, August 7, 2026             | Casting-5        | 4 PM - 5.00 PM |
| Monday, August 3, 2026     | Heat Engine / Refrigerator / Heat Pump (COP, Efficiency) | 3 PM - 4.00 PM |                             |  |  | Monday, August 10, 2026            | Metal Forming-1  | 4 PM - 5.00 PM |
| Tuesday, August 4, 2026    | Numericals (Second Law)                                  | 3 PM - 4.00 PM |                             |  |  | Tuesday, August 11, 2026           | Metal Forming-2  | 4 PM - 5.00 PM |
| Wednesday, August 5, 2026  | Clausius Inequality & Entropy Intro                      | 3 PM - 4.00 PM |                             |  |  | Wednesday, August 12, 2026         | Metal Forming-3  | 4 PM - 5.00 PM |
| Thursday, August 6, 2026   | Entropy Derivation - Part 1                              | 3 PM - 4.00 PM |                             |  |  | Thursday, August 13, 2026          | Metal Forming-4  | 4 PM - 5.00 PM |
| Friday, August 7, 2026     | Entropy Derivation - Part 2                              | 3 PM - 4.00 PM |                             |  |  | Friday, August 14, 2026            | Metal Forming-5  | 4 PM - 5.00 PM |
| Monday, August 10, 2026    | Revision - Thermodynamics                                | 3 PM - 4.00 PM |                             |  |  | Monday, August 17, 2026            | Metrology-1      | 4 PM - 5.00 PM |
| Tuesday, August 11, 2026   | Revision - Thermodynamics                                | 3 PM - 4.00 PM |                             |  |  | Tuesday, August 18, 2026           | Metrology-2      | 4 PM - 5.00 PM |
| Wednesday, August 12, 2026 | Properties of Pure Substance - Part 1                    | 3 PM - 4.00 PM |                             |  |  | Wednesday, August 19, 2026         | Concept of MMT-1 | 4 PM - 5.00 PM |
| Thursday, August 13, 2026  | Properties of Pure Substance - Part 2                    | 3 PM - 4.00 PM |                             |  |  | Thursday, August 20, 2026          | Concept of MMT-2 | 4 PM - 5.00 PM |

| Rahul Sir : Hydraulic Machines      |                                          |                | Wednesday, August 12, 2026   | Kinematics Intro + Types + Continuity    | 7 PM - 8.30 PM | Friday, August 21, 2026      | Concept of MMT-3           | 4 PM - 5.00 PM |
|-------------------------------------|------------------------------------------|----------------|------------------------------|------------------------------------------|----------------|------------------------------|----------------------------|----------------|
|                                     |                                          |                | Thursday, August 13, 2026    | Velocity Potential & Stream Function - 1 | 7 PM - 8.30 PM | Monday, August 24, 2026      | Concept of MMT-4           | 4 PM - 5.00 PM |
| Date                                | Title                                    | Timing         | Friday, August 14, 2026      | Velocity Potential & Stream Function - 2 | 7 PM - 8.30 PM | Tuesday, August 25, 2026     | Concept of MMT-5           | 4 PM - 5.00 PM |
| Friday, August 14, 2026             | Impact of jet                            | 3 PM - 4.00 PM | Monday, August 17, 2026      | Velocity Potential & Stream Function - 3 | 7 PM - 8.30 PM | Wednesday, August 26, 2026   | Unconventional Machining-1 | 4 PM - 5.00 PM |
| Monday, August 17, 2026             | Turbine basic , classification           | 3 PM - 4.00 PM | Tuesday, August 18, 2026     | Fluid Dynamics Intro + Bernoulli         | 7 PM - 8.30 PM | Thursday, August 27, 2026    | Unconventional Machining-2 | 4 PM - 5.00 PM |
| Tuesday, August 18, 2026            | Pelton wheel , francis , kaplan turbine  | 3 PM - 4.00 PM | Wednesday, August 19, 2026   | Bernoulli Applications                   | 7 PM - 8.30 PM | Friday, August 28, 2026      | Jigs & Fixtures            | 4 PM - 5.00 PM |
| Wednesday, August 19, 2026          | Pump-1                                   | 3 PM - 4.00 PM | Thursday, August 20, 2026    | Orifice Meter & Pitot Tube               | 7 PM - 8.30 PM | Monday, August 31, 2026      | Metal Cutting-1            | 4 PM - 5.00 PM |
| Thursday, August 20, 2026           | Pump-2                                   | 3 PM - 4.00 PM | Friday, August 21, 2026      | Laminar Flow - 1                         | 7 PM - 8.30 PM | Tuesday, September 1, 2026   | Metal Cutting-2            | 4 PM - 5.00 PM |
| Friday, August 21, 2026             | Live doubt and miscellaneous-1           | 3 PM - 4.00 PM | Monday, August 24, 2026      | Laminar Flow - 2                         | 7 PM - 8.30 PM | Wednesday, September 2, 2026 | Metal Cutting-3            | 4 PM - 5.00 PM |
| Monday, August 24, 2026             | Live doubt and miscellaneous-2           | 3 PM - 4.00 PM | Tuesday, August 25, 2026     | Laminar Flow - 3                         | 7 PM - 8.30 PM | Thursday, September 3, 2026  | Concept of MMT-1           | 4 PM - 5.00 PM |
| Tuesday, August 25, 2026            | Live doubt and miscellaneous-3           | 3 PM - 4.00 PM | Wednesday, August 26, 2026   | Laminar vs Turbulent - 1                 | 7 PM - 8.30 PM | Friday, September 4, 2026    | Concept of MMT-2           | 4 PM - 5.00 PM |
| Rahul Sir : Power Plant Engineering |                                          |                | Thursday, August 27, 2026    | Laminar vs Turbulent - 2                 | 7 PM - 8.30 PM |                              |                            |                |
| Date                                | Title                                    | Timing         | Friday, August 28, 2026      | Laminar vs Turbulent - 3                 | 7 PM - 8.30 PM |                              |                            |                |
| Wednesday, August 26, 2026          | Basic Introduction                       | 3 PM - 4.00 PM | Monday, August 31, 2026      | Boundary Layer Theory                    | 7 PM - 8.30 PM |                              |                            |                |
| Thursday, August 27, 2026           | Types of Coal & Fuels                    | 3 PM - 4.00 PM | Tuesday, September 1, 2026   | Vortex Flow (Free & Forced)              | 7 PM - 8.30 PM |                              |                            |                |
| Friday, August 28, 2026             | Coal Detailed Study                      | 3 PM - 4.00 PM | Wednesday, September 2, 2026 | Flow Through Pipes - 1                   | 7 PM - 8.30 PM |                              |                            |                |
| Monday, August 31, 2026             | Steam Power Plant (Thermal) - Analysis-1 | 3 PM - 4.00 PM | Thursday, September 3, 2026  | Flow Through Pipes - 2                   | 7 PM - 8.30 PM |                              |                            |                |
| Tuesday, September 1, 2026          | Steam Power Plant (Thermal) - Analysis-2 | 3 PM - 4.00 PM | Friday, September 4, 2026    | Flow Through Pipes - 3                   | 7 PM - 8.30 PM |                              |                            |                |
| Wednesday, September 2, 2026        | Steam Power Plant (Thermal) - Analysis-3 | 3 PM - 4.00 PM | Monday, September 7, 2026    | Dimensional Analysis & Modelling         | 7 PM - 8.30 PM |                              |                            |                |
| Thursday, September 3, 2026         | Rankine Cycle-1                          | 3 PM - 4.00 PM | Tuesday, September 8, 2026   | OCF - 1                                  | 7 PM - 8.30 PM |                              |                            |                |
| Friday, September 4, 2026           | Rankine Cycle-2                          | 3 PM - 4.00 PM | Wednesday, September 9, 2026 | OCF - 2                                  | 7 PM - 8.30 PM |                              |                            |                |
| Monday, September 7, 2026           | Boilers-1                                | 3 PM - 4.00 PM | Thursday, September 10, 2026 | OCF - 3                                  | 7 PM - 8.30 PM |                              |                            |                |

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| Tuesday, September 8, 2026    | Boilers-2                  | 3 PM - 4.00 PM | Friday, September 11, 2026    | Impact of Jets - 1                           | 7 PM - 8.30 PM |  |  |  |
| Wednesday, September 9, 2026  | Boilers-3                  | 3 PM - 4.00 PM | Monday, September 14, 2026    | Impact of Jets - 2                           | 7 PM - 8.30 PM |  |  |  |
| Thursday, September 10, 2026  | Steam Turbine              | 3 PM - 4.00 PM | Tuesday, September 15, 2026   | Hydraulic Turbine Intro & Classification - 1 | 7 PM - 8.30 PM |  |  |  |
| Friday, September 11, 2026    | Nozzle & Compressor-1      | 3 PM - 4.00 PM | Wednesday, September 16, 2026 | Hydraulic Turbine Intro & Classification - 2 | 7 PM - 8.30 PM |  |  |  |
| Monday, September 14, 2026    | Nozzle & Compressor-2      | 3 PM - 4.00 PM | Thursday, September 17, 2026  | Types of Turbines - 1                        | 7 PM - 8.30 PM |  |  |  |
| Tuesday, September 15, 2026   | Nozzle & Compressor-3      | 3 PM - 4.00 PM | Friday, September 18, 2026    | Types of Turbines - 2                        | 7 PM - 8.30 PM |  |  |  |
| Wednesday, September 16, 2026 | Miscellaneous Numericals-1 | 3 PM - 4.00 PM | Monday, September 21, 2026    | Modeling & Similitude MCQ                    | 7 PM - 8.30 PM |  |  |  |
| Thursday, September 17, 2026  | Miscellaneous Numericals-2 | 3 PM - 4.00 PM | Tuesday, September 22, 2026   | Pumps - 1                                    | 7 PM - 8.30 PM |  |  |  |
|                               |                            |                | Wednesday, September 23, 2026 | Pumps - 2                                    | 7 PM - 8.30 PM |  |  |  |
|                               |                            |                | Thursday, September 24, 2026  | Pumps - 3                                    | 7 PM - 8.30 PM |  |  |  |