

STUDY PLAN

| Rahul sir Strength of Materials | | | | Shivam sir Production Engineering | | | |
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| Date | Chapter | Title | Timing | Date | Chapter | Title | Timing |
| Friday, July 25, 2025 | Orientation | Orientation | 7:00PM-7:59PM | Friday, July 25, 2025 | Metal Casting | Introduction to Casting | 5:00PM-6:00PM |
| Monday, July 28, 2025 | STRESS AND STRAIN | Basic introduction , Load classification | 7:00PM-7:59PM | Monday, July 28, 2025 | | Casting-1 | 5:00PM-6:00PM |
| Tuesday, July 29, 2025 | | Concept of stress and strain | 7:00PM-7:59PM | Tuesday, July 29, 2025 | | Casting-2 | 5:00PM-6:00PM |
| Wednesday, July 30, 2025 | | Mechanical properties of materials | 7:00PM-7:59PM | Wednesday, July 30, 2025 | | Casting-3 | 5:00PM-6:00PM |
| Thursday, July 31, 2025 | | Stress vs strain curve for all materials | 7:00PM-7:59PM | Thursday, July 31, 2025 | | Casting-4 | 5:00PM-6:00PM |
| Friday, August 1, 2025 | | Elastic constant | 7:00PM-7:59PM | Friday, August 1, 2025 | | Casting-5 | 5:00PM-6:00PM |
| Monday, August 4, 2025 | | Concepts of deformation-1 | 7:00PM-7:59PM | Monday, August 4, 2025 | | Casting-6 | 5:00PM-6:00PM |
| Tuesday, August 5, 2025 | | Concepts of deformation-2 | 7:00PM-7:59PM | Tuesday, August 5, 2025 | | Casting-7 | 5:00PM-6:00PM |
| Wednesday, August 6, 2025 | STRAIN ENERGY | Strain energy due axial and self weight | 7:00PM-7:59PM | Wednesday, August 6, 2025 | Joining | Casting-8 | 5:00PM-6:00PM |
| Thursday, August 7, 2025 | THERMAL STRESS | Thermal stress under free expansion | 7:00PM-7:59PM | Thursday, August 7, 2025 | | Introduction to Welding | 5:00PM-6:00PM |
| Friday, August 8, 2025 | | Thermal stress under fixed , composite beam | 7:00PM-7:59PM | Friday, August 8, 2025 | | Welding-1 | 5:00PM-6:00PM |
| Monday, August 11, 2025 | SHEAR IN BEAM | Shear in rectangular and triangular section | 7:00PM-7:59PM | Monday, August 11, 2025 | | Welding-2 | 5:00PM-6:00PM |
| Tuesday, August 12, 2025 | | Shear in circular , IN section of beam | 7:00PM-7:59PM | Tuesday, August 12, 2025 | | Welding-3 | 5:00PM-6:00PM |
| Wednesday, August 13, 2025 | BENDING IN BEAM | Bending equation | 7:00PM-7:59PM | Wednesday, August 13, 2025 | | Welding-4 | 5:00PM-6:00PM |
| Thursday, August 14, 2025 | | Application of bending equation | 7:00PM-7:59PM | Thursday, August 14, 2025 | | Welding-5 | 5:00PM-6:00PM |
| Friday, August 15, 2025 | TORSION IN SHAFT | Torsion equation | 7:00PM-7:59PM | Friday, August 15, 2025 | | Welding-6 | 5:00PM-6:00PM |
| Monday, August 18, 2025 | | Torsion equation application | 7:00PM-7:59PM | Monday, August 18, 2025 | | Welding-7 | 5:00PM-6:00PM |
| Tuesday, August 19, 2025 | Combined stress | Concepts of normal and shear stress in oblique plane | 7:00PM-7:59PM | Tuesday, August 19, 2025 | | Welding-8 | 5:00PM-6:00PM |

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| Wednesday, August 20, 2025 | | Concepts of principle plane ,stress | 7:00PM-7:59PM | Wednesday, August 20, 2025 | Metal Cutting | Metal Cutting-1 | 5:00PM-6:00PM | |
| Thursday, August 21, 2025 | | Mohr Circle | 7:00PM-7:59PM | Thursday, August 21, 2025 | | Metal Cutting-2 | 5:00PM-6:00PM | |
| Friday, August 22, 2025 | | Basic , types of beam support , reaction calculation | 7:00PM-7:59PM | Friday, August 22, 2025 | | Metal Cutting-3 | 5:00PM-6:00PM | |
| Monday, August 25, 2025 | | SFD AND BMD | SFD & BMD OF Cantiliver & ssb beam | 7:00PM-7:59PM | | Monday, August 25, 2025 | Metal Cutting-4 | 5:00PM-6:00PM |
| Tuesday, August 26, 2025 | | | SFD & BMD combination of load | 7:00PM-7:59PM | | Tuesday, August 26, 2025 | Metal Cutting-5 | 5:00PM-6:00PM |
| Wednesday, August 27, 2025 | SLOPE AND DEFLECTION | Basic and Method of slope and deflection | 7:00PM-7:59PM | Wednesday, August 27, 2025 | | | Metal Cutting-6 | 5:00PM-6:00PM |
| Thursday, August 28, 2025 | | Slope and deflection of cantiliver | 7:00PM-7:59PM | Thursday, August 28, 2025 | Machine & Machine Tools | Concept of MMT-1 | 5:00PM-6:00PM | |
| Friday, August 29, 2025 | | Slope and deflection of SSB beam | 7:00PM-7:59PM | Friday, August 29, 2025 | | Concept of MMT-2 | 5:00PM-6:00PM | |
| Monday, September 1, 2025 | COLUMN AND STRUT | Basic and eulers and rankine formula | 7:00PM-7:59PM | Monday, September 1, 2025 | | Concept of MMT-3 | 5:00PM-6:00PM | |
| Tuesday, September 2, 2025 | THIN AND THICK CYLINDER | Basic and thin cylinder stress calculation | 7:00PM-7:59PM | Tuesday, September 2, 2025 | | Concept of MMT-4 | 5:00PM-6:00PM | |
| Wednesday, September 3, 2025 | THEORY OF FAILURE | Theory of failure-1 | 7:00PM-7:59PM | Wednesday, September 3, 2025 | | Concept of MMT-5 | 5:00PM-6:00PM | |
| Thursday, September 4, 2025 | | Theory of failure-2 | 7:00PM-7:59PM | Thursday, September 4, 2025 | Metal Forming & Sheet Metals | Metal Forming-1 | 5:00PM-6:00PM | |
| Friday, September 5, 2025 | LIVE DOUBT AND MISCELLANEOUS | Live doubt and miscellaneous-1 | 7:00PM-7:59PM | Friday, September 5, 2025 | | Metal Forming-2 | 5:00PM-6:00PM | |
| Saturday, September 6, 2025 | | Live doubt and miscellaneous-2 | 7:00PM-7:59PM | Monday, September 8, 2025 | | Metal Forming-3 | 5:00PM-6:00PM | |
| Sunday, September 7, 2025 | | Live doubt and miscellaneous-3 | 7:00PM-7:59PM | Tuesday, September 9, 2025 | | Metal Forming-4 | 5:00PM-6:00PM | |
| Rahul Sir Fluid Mechanics | | | | Wednesday, September 10, 2025 | | Metal Forming-5 | 5:00PM-6:00PM | |
| | | | | Thursday, September 11, 2025 | Sheet Metal Operations | 5:00PM-6:00PM | | |
| | | | | Friday, September 12, 2025 | Metrology-1 | 5:00PM-6:00PM | | |
| Date | Topic | Title | Timing | Monday, September 15, 2025 | Metrology | Metrology-2 | 5:00PM-6:00PM | |
| Wednesday, August 20, 2025 | Orientation | Orientation | Recorded | Tuesday, September 16, 2025 | | Metrology-3 | 5:00PM-6:00PM | |
| Thursday, August 21, 2025 | FLUID PROPERTY | Basic introduction | Recorded | Wednesday, September 17, 2025 | | Metrology-4 | 5:00PM-6:00PM | |
| Friday, August 22, 2025 | | Bulk modulus , Density | Recorded | Thursday, September 18, 2025 | | Metrology-5 | 5:00PM-6:00PM | |
| Monday, August 25, 2025 | | Specific gravity and Specific Weight | Recorded | Friday, September 19, 2025 | | Unconventional Machining | Unconventional Machining-1 | 5:00PM-6:00PM |
| Tuesday, August 26, 2025 | | Viscosity | Recorded | Saturday, September 20, 2025 | Unconventional Machining-2 | | 5:00PM-6:00PM | |
| Wednesday, August 27, 2025 | | | Newton law of viscosity | Recorded | Sunday, September 21, 2025 | Jigs and Fixtures | Jigs & Fixtures | 5:00PM-6:00PM |

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| Thursday, August 28, 2025 | | Fluid classification | Recorded | Shivam Sir Thermodynamics | | | |
| Friday, August 29, 2025 | SURFACE TENSION | Surface tension | Recorded | | | | |
| Monday, September 1, 2025 | CAPILLARY | Capillary | Recorded | | | | |
| Tuesday, September 2, 2025 | PRESSURE | Basic , Types of pressure | Recorded | Date | Chapter | Title | Timing |
| Wednesday, September 3, 2025 | | Pascal and hydrostatic law | Recorded | Monday, August 4, 2025 | Thermodynamics system and processes | Basics Concept-1 | 3:00PM-4:00PM |
| Thursday, September 4, 2025 | | Pressure measuring device -1 | Recorded | Tuesday, August 5, 2025 | | Basics Concept-2 | 3:00PM-4:00PM |
| Friday, September 5, 2025 | | Pressure measuring device -2 | Recorded | Wednesday, August 6, 2025 | | Basics Concept-3 | 3:00PM-4:00PM |
| Monday, September 8, 2025 | BUOYANCY AND FLOATATION | Basic concepts , principle of floatation | Recorded | Thursday, August 7, 2025 | | Basics Concept-4 | 3:00PM-4:00PM |
| Tuesday, September 9, 2025 | | Stability condition of submerged body | Recorded | Friday, August 8, 2025 | Heat and Work | Heat and work-1 | 3:00PM-4:00PM |
| Wednesday, September 10, 2025 | | Concept of metacentre | Recorded | Saturday, August 9, 2025 | | Heat and work-2 | 3:00PM-4:00PM |
| Thursday, September 11, 2025 | | Stability condition of floating body | Recorded | Monday, August 11, 2025 | | Heat and work-3 | 3:00PM-4:00PM |
| Friday, September 12, 2025 | HYDROSTATICS FORCE | Hydro-static forces on plane | Recorded | Tuesday, August 12, 2025 | | Heat and work-4 | 3:00PM-4:00PM |
| Monday, September 15, 2025 | | Hydro-static forces on curved surface | Recorded | Wednesday, August 13, 2025 | First law of thermodynamics | First law of thermodynamics-1 | 3:00PM-4:00PM |
| Tuesday, September 16, 2025 | FLUID KINEMATICS | Basic and types of flow | Recorded | Thursday, August 14, 2025 | | First law of thermodynamics-2 | 3:00PM-4:00PM |
| Wednesday, September 17, 2025 | | Stream, path and streak line | Recorded | Friday, August 15, 2025 | | First law of thermodynamics-3 | 3:00PM-4:00PM |
| Thursday, September 18, 2025 | | Continuity equation | Recorded | Saturday, August 16, 2025 | | First law of thermodynamics-4 | 3:00PM-4:00PM |
| Friday, September 19, 2025 | | Velocity and stream function | Recorded | Sunday, August 17, 2025 | | First law of thermodynamics-5 | 3:00PM-4:00PM |
| Monday, September 22, 2025 | FLUID DYNAMICS | Eulers , B.E equation | Recorded | Monday, August 18, 2025 | Second law of thermodynamics and Entropy | Second law of thermodynamics-1 | 3:00PM-4:00PM |
| Tuesday, September 23, 2025 | | Application of B.E Equation | Recorded | Tuesday, August 19, 2025 | | Second law of thermodynamics-2 | 3:00PM-4:00PM |
| Wednesday, September 24, 2025 | LAMINAR & TURBULENT FLOW | Basic introduction , shear stress and velocity profile | Recorded | Wednesday, August 20, 2025 | | Entropy part-1 | 3:00PM-4:00PM |
| Thursday, September 25, 2025 | | Pressure drop , friction factor | Recorded | Thursday, August 21, 2025 | | Entropy part-2 | 3:00PM-4:00PM |
| Friday, September 26, 2025 | | Turbulent flow | Recorded | Friday, August 22, 2025 | | Entropy part-3 | 3:00PM-4:00PM |
| Monday, September 29, 2025 | FLOW THROUGH PIPE | Major , minor losses | Recorded | Saturday, August 23, 2025 | | Entropy part-4 | 3:00PM-4:00PM |
| Tuesday, September 30, 2025 | | Concept of equivalent pipe and maximum efficiency | Recorded | Sunday, August 24, 2025 | Properties of pure substance | Properties of pure substance part 1 | 3:00PM-4:00PM |
| Wednesday, October 1, 2025 | BOUNDARY LAYER THEORY | Boundary layer theory | Recorded | Monday, August 25, 2025 | | Properties of pure substance part 2 | 3:00PM-4:00PM |
| Thursday, October 2, 2025 | VORTEX MOTION | Free Vortex motion | Recorded | Tuesday, August 26, 2025 | | Properties of pure substance part 3 | 3:00PM-4:00PM |
| Friday, October 3, 2025 | | Forced Vortex motion | Recorded | Wednesday, August 27, 2025 | | Properties of pure substance part 4 | 3:00PM-4:00PM |

| Saturday, October 4, 2025 | MODELLING AND SIMLITUDE | Similarity , dimensionless number | Recorded | Shivam sir : Power Plant Engineering | | | |
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| Rahul Sir Hydraulic Machines | | | | | | | |
| Date | Chapter | Title | Timing | Date | Chapter | Title | Timing |
| Monday, October 6, 2025 | HYDRAULIC MACHINE | Impact of jet | Recorded | Monday, August 18, 2025 | Boiler | Boiler Classification, Fittings & Accessories part 1 | 5:00PM-6:00PM |
| Tuesday, October 7, 2025 | | Turbine basic , classification | Recorded | Tuesday, August 19, 2025 | | Boiler Classification, Fittings & Accessories part 2 | 5:00PM-6:00PM |
| Wednesday, October 8, 2025 | | Pelton wheel , francis , kaplan turbine | Recorded | Wednesday, August 20, 2025 | | Boiler Classification, Fittings & Accessories part 3 | 5:00PM-6:00PM |
| Thursday, October 9, 2025 | | Pump-1 | Recorded | Thursday, August 21, 2025 | | Boiler Classification, Fittings & Accessories part 4 | 5:00PM-6:00PM |
| Friday, October 10, 2025 | | Pump-2 | Recorded | Friday, August 22, 2025 | | Boiler Classification, Fittings & Accessories part 5 | 5:00PM-6:00PM |
| Monday, October 13, 2025 | LIVE DOUBT AND MISCELLANEOUS | Live doubt and miscellaneous-1 | Recorded | Monday, August 25, 2025 | Rankine Cycle | Rankine Cycle part 1 | 5:00PM-6:00PM |
| Tuesday, October 14, 2025 | | Live doubt and miscellaneous-2 | Recorded | Tuesday, August 26, 2025 | | Rankine Cycle part 2 | 5:00PM-6:00PM |
| Wednesday, October 15, 2025 | | Live doubt and miscellaneous-3 | Recorded | Wednesday, August 27, 2025 | | Rankine Cycle part 3 | 5:00PM-6:00PM |
| Rahul Sir RAC | | | | Thursday, August 28, 2025 | | Rankine Cycle part 4 | 5:00PM-6:00PM |
| | | | | Friday, August 29, 2025 | Brayton Cycle | Brayton Cycle part 1 | 5:00PM-6:00PM |
| Date | Chapter | Title | Timing | Monday, September 1, 2025 | | Brayton Cycle part 2 | 5:00PM-6:00PM |
| Monday, August 25, 2025 | Basic Introduction of RAC | Basics of refrigeration system 1 | 4:00PM-4:59PM | Tuesday, September 2, 2025 | | Brayton Cycle part 3 | 5:00PM-6:00PM |
| Tuesday, August 26, 2025 | | Basics of refrigeration system 2 | 4:00PM-4:59PM | Wednesday, September 3, 2025 | | Brayton Cycle part 4 | 5:00PM-6:00PM |
| Wednesday, August 27, 2025 | Vapour Compression Refrigeration system | Vapour Compression Refrigeration system 1 | 4:00PM-4:59PM | Thursday, September 4, 2025 | Air Compressors & their cycles | Air Compressors & their cycles part 1 | 5:00PM-6:00PM |
| Thursday, August 28, 2025 | | Vapour Compression Refrigeration system 2 | 4:00PM-4:59PM | Friday, September 5, 2025 | | Air Compressors & their cycles part 2 | 5:00PM-6:00PM |
| Friday, August 29, 2025 | | Vapour Compression Refrigeration system 3 | 4:00PM-4:59PM | Monday, September 8, 2025 | | Air Compressors & their cycles part 3 | 5:00PM-6:00PM |
| Monday, September 1, 2025 | | Vapour Compression Refrigeration system 4 | 4:00PM-4:59PM | Tuesday, September 9, 2025 | | Air Compressors & their cycles part 4 | 5:00PM-6:00PM |
| Tuesday, September 2, 2025 | | | Vapour Compression Refrigeration system 5 | 4:00PM-4:59PM | Wednesday, September 10, 2025 | Steam Turbines & Nozzles | Steam Turbines & Nozzles part 1 |
| Wednesday, September 3, 2025 | Refrigerants | Types of refrigerants & Properties 1 | 4:00PM-4:59PM | Thursday, September 11, 2025 | Steam Turbines & Nozzles part 2 | | 5:00PM-6:00PM |
| Thursday, September 4, 2025 | | Types of refrigerants & Properties 2 | 4:00PM-4:59PM | Friday, September 12, 2025 | Steam Turbines & Nozzles part 3 | | 5:00PM-6:00PM |
| Friday, September 5, 2025 | | Types of refrigerants & Properties 3 | 4:00PM-4:59PM | Monday, September 15, 2025 | Steam Turbines & Nozzles part 4 | | 5:00PM-6:00PM |
| Monday, September 8, 2025 | Vapour absorption refrigeration system | Vapour absorption refrigeration system 1 | 4:00PM-4:59PM | Tuesday, September 16, 2025 | | Steam Turbines & Nozzles part 5 | 5:00PM-6:00PM |

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| Tuesday, September 9, 2025 | | Vapour absorption refrigeration system 2 | 4:00PM-4:59PM | Shivam sir Material Science | | | |
| Wednesday, September 10, 2025 | Refrigeration Cycle and Devices | Refrigeration equipments 1 | 4:00PM-4:59PM | | | | |
| Thursday, September 11, 2025 | | Refrigeration equipments 2 | 4:00PM-4:59PM | Date | Chapter | Title | Timing |
| Friday, September 12, 2025 | | Refrigeration equipments 3 | 4:00PM-4:59PM | Monday, August 4, 2025 | Introduction | Introduction-1 | 3:00PM-4:00PM |
| Monday, September 15, 2025 | Air conditioning | Psychrometry 1 | 4:00PM-4:59PM | Tuesday, August 5, 2025 | | Introduction-2 | 3:00PM-4:00PM |
| Tuesday, September 16, 2025 | | Psychrometry 2 | 4:00PM-4:59PM | Wednesday, August 6, 2025 | Structure and Properties of Engineering Material | Crystalline Materials-1 | 3:00PM-4:00PM |
| Wednesday, September 17, 2025 | | Psychrometry 3 | 4:00PM-4:59PM | Thursday, August 7, 2025 | | Crystalline Materials-2 | 3:00PM-4:00PM |
| Thursday, September 18, 2025 | | Psychrometry 4 | 4:00PM-4:59PM | Friday, August 8, 2025 | | Crystalline Materials-3 | 3:00PM-4:00PM |
| Friday, September 19, 2025 | | Psychrometry 5 | 4:00PM-4:59PM | Monday, August 11, 2025 | | Crystalline Materials-4 | 3:00PM-4:00PM |
| Monday, September 22, 2025 | | Psychrometry 6 | 4:00PM-4:59PM | Tuesday, August 12, 2025 | Steel | Steel-1 | 3:00PM-4:00PM |
| Tuesday, September 23, 2025 | | Psychrometry 7 | 4:00PM-4:59PM | Wednesday, August 13, 2025 | | Steel-2 | 3:00PM-4:00PM |
| | | | | Thursday, August 14, 2025 | | Steel-3 | 3:00PM-4:00PM |
| | | | | Friday, August 15, 2025 | Heat Treatment of steel | Heat treatment of steel-1 | 3:00PM-4:00PM |
| | | | | Monday, August 18, 2025 | | Heat treatment of steel-2 | 3:00PM-4:00PM |
| | | | | Tuesday, August 19, 2025 | Cast Iron | Cast Iron | 3:00PM-4:00PM |

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