

Engineering Service Examination Syllabus for Mechanical Engineering

Indian Engineering Services Exam Syllabus for Mechanical Engineering Paper-I

(For both objective and conventional type papers)

1. Thermodynamics, Cycles and IC Engines. Basic concepts, Open and Closed systems. Heat and work. Zeroth, First and Second Law, Application to non-Flow and Flow processes. Entropy, Availability, Irreversibility and Tds relations. Claperyron and real gas equations. Properties of ideal gases and vapours. Standard vapour, Gas power and Refrigeration cycles. Two stage compressor. C-I and S-I. Engines. Pre-ignition, Detonation and Diesel-knock, Fuel injection and Carburation, Supercharging, Turbo-prop and Rocket engines, Engine Cooling, Emission & Control, Flue gas analysis, Measurement of Calorific values. Conventional and Nuclear fuels, Elements of Nuclear power production.

2. Heat Transfer and Refrigeration and Airconditioning. Modes of heat transfer. One dimensional steady and unsteady conduction. Composite slab and Equivalent Resistance. Heat dissipation from extended surfaces, Heat exchangers, Overall heat transfer coefficient, Empirical correlations for heat transfer in laminar and turbulent flows and for free and forced Convection, Thermal boundary layer over a flat plate. Fundamentals of diffusive and convective mass transfer, Black body and basic concepts in Radiation, Enclosure theory, Shape factor, Net work analysis. Heat pump and Refrigeration cycles and systems, Refrigerants, Condensers, Evaporates and Expansion devices, Psychrometry, Charts and application to air conditioning, Sensible heating and cooling, Effective temperature, comfort indices, Load calculations, Solar refrigeration, controls, Duct design.

3. Fluid Mechanics:

Properties and classification of fluids, Manometry, forces on immersed surfaces, Center of pressure, Buoyancy, Elements of stability of floating bodies. Kinematics and Dynamics.

Irrrotational and incompressible. Inviscid flow. Velocity potential, Pressure field and Forces on immersed bodies. Bernoulli's equation, Fully developed flow through pipes, Pressure drop calculations, Measurement of flow rate and Pressure drop. Elements of boundary layer theory, Integral approach, Laminar and turbulent flows, Separations. Flow over weirs and notches. Open channel flow, Hydraulic jump. Dimensionless numbers, Dimensional analysis, Similitude and modelling. One-dimensional isentropic flow, Normal shock wave, Flow through convergent - divergent ducts, Oblique shock-wave, Rayleigh and Fanno lines.

4. Fluid Machinery and Steam Generators:

Performance, Operation and control of hydraulic Pump and impulse and reaction Turbines, Specific speed, Classification. Energy transfer, Coupling, Power transmission, Steam generators. Fire-tube and water-tube boilers. Flow of steam through Nozzles and Diffusers, Wetness and condensation. Various types of steam and gas Turbines, Velocity diagrams. Partial admission.

Engineering Services Examination Syllabus Mechanical

Daniel F McAuley



Engineering Services Examination Syllabus Mechanical:

Whispering the Techniques of Language: An Psychological Quest through **Engineering Services Examination Syllabus Mechanical**

In a digitally-driven earth wherever monitors reign supreme and quick interaction drowns out the subtleties of language, the profound secrets and mental nuances hidden within phrases often move unheard. Yet, located within the pages of **Engineering Services Examination Syllabus Mechanical** a charming literary value pulsating with fresh thoughts, lies an exceptional quest waiting to be undertaken. Penned by a talented wordsmith, this charming opus invites readers on an introspective journey, gently unraveling the veiled truths and profound affect resonating within the very fabric of every word. Within the psychological depths of the touching review, we will embark upon a heartfelt exploration of the book is primary styles, dissect their captivating writing style, and fail to the strong resonance it evokes strong within the recesses of readers hearts.

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