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out GATE Exam		
FE 2014 Eligibilty		Registration Form
TE 2014 Pattern	1. MECHANICAL ENGINEERING – ME	NEXT BATCH
FE 2014 Syllabus	I. MECHANICAL ENGINEERING - ME	
TE 2014 Schedule		Regular :15th April & 5th Ma
TE Previous Papers	Engineering Mathematics	Weekend : 20th April & 4th
TE Solution Key		May
TE Cutoff Marks	Linear Algebra: Matrix Algebra, Systems of linear equations, Eigen values and eigen vectors.	ESE / Prasar Bharti Crash Course : 2nd & 20th April
ech Admission 2013-14	Calculus: Mean value theorems, Theorems of integral calculus, Evaluation of definite and improper integrals, Partial Derivatives, Maxima and minima, Multiple integrals, Fourier series. Vector identities,	
TE Cut Off 2010-2012	Directional derivatives, Line, Surface and Volume integrals, Stokes, Gauss and Green's theorems.	BSNL-JTO
SATE Detail solutions	Differential equations: First order equation (linear and nonlinear), Higher order linear differential equations with constant coefficients, Method of variation of parameters, Cauchy's and Euler's equations, Initial and boundary value problems, Partial Differential Equations and variable separable method.	JTO Eligibilty
		JTO Syllabus
		JTO Previous Papers
out IES	Complex variables: Analytic functions, Cauchy's integral theorem and integral formula, Taylor's and Laurent' series, Residue theorem, solution integrals.	JTO 2008 Cut-off
2013 Eligibilty		JTO 2008 Solution
2013 Pattern	Probability and Statistics: Sampling theorems, Conditional probability, Mean, median, mode and standard deviation, Random variables, Discrete and continuous distributions, Poisson, Normal and Dispetited distributions of accessing a package.	JTO Sample paper
2013 Syllabus	Binomial distribution, Correlation and regression analysis.	
2013 Exam Schedule	Numerical Methods: Solutions of non-linear algebraic equations, single and multi-step methods for differential equations. Transform Theory: Fourier transform, Laplace transform, Z-transform.	DRDO-SET
Previous Papers		About DRDO-SET
Reference Books	GENERAL APTITUDE(GA): Verbal Ability: English grammar, sentence completion, verbal analogies, word groups, instructions,	DRDO Eligibilty
ESE Cutoff Marks	critical reasoning and verbal deduction.	DRDO Syllabus
Selection List	Applied Mechanics and Design	DRDO Examination Pattern
Tentative vacancy	Engineering Mechanics: Free body diagrams and equilibrium; trusses and frames; virtual work; kinematics and dynamics of particles and of rigid bodies in plane motion, including impulse and	DRDO Previous Papers
Solution	momentum (linear and angular) and energy formulations; impact.	DRDO Sample Paper
U'S	Strength of Materials: Stress and strain, stress-strain relationship and elastic constants, Mohr's circle	GATE-IES NEWS
out PSU's	for plane stress and plane strain, thin cylinders; shear force and bending moment diagrams; bending and shear stresses; deflection of beams; torsion of circular shafts; Euler's theory of columns; strain	GATE Application Form
J's Eligibilty	energy methods; thermal stresses.	New in GATE 2013
J's Pattern	Theory of Machines: Displacement, velocity and acceleration analysis of plane mechanisms; dynamic analysis of slider-crank mechanism; gear trains; flywheels.	GATE 2013 Score Formula
I's Syllabus	Vibrations: Free and forced vibration of single degree of freedom systems; effect of damping;	PSU's Recruitment
J's Exam Schedule	vibration isolation; resonance, critical speeds of shafts.	Other PSU's Requirement
J's Previous Papers	Design: Design for static and dynamic loading; failure theories; fatigue strength and the S-N diagram;	GATE Sample Paper
SU's Reference Books your Friends I a Friend I M M. Bernoull's et toost for the set of the set	principles of the design of machine elements such as bolted, riveted and welded joints, shafts, spur gears, rolling and sliding contact bearings, brakes and clutches. Fluid Mechanics and Thermal Sciences Fluid Mechanics: Fluid properties; fluid statics, manometry, buoyancy; control-volume analysis of mass, momentum and energy; fluid acceleration; differential equations of continuity and momentum; Bernoulli's equation; viscous flow of incompressible fluids; boundary layer; elementary turbulent flow; flow through pipes, head losses in pipes, bends etc.	GATE 2013 Admit Card
		GATE 2013 Result
		ONGC Crash Course
		IES 2013 Notification
		IES Interview Question
	Heat-Transfer: Modes of heat transfer; one dimensional heat conduction, resistance concept, electrical analogy, unsteady heat conduction, fins; dimensionless parameters in free and forced	IES 2013 Application Form
	convective heat transfer, various correlations for heat transfer in flow over flat plates and through pipes; thermal boundary layer; effect of turbulence; radiative heat transfer, black and grey surfaces, shape factors, network analysis; heat exchanger performance, LMTD and NTU methods.	ESE 2012 Mock interview
	Thermodynamics: Zeroth, First and Second laws of thermodynamics; thermodynamic system and processes; Carnot cycle. irreversibility and availability; behaviour of ideal and real gases, properties of pure substances, calculation of work and heat in ideal processes; analysis of thermodynamic cycles related to energy conversion.	
	Applications: Power Engineering: Steam Tables, Rankine, Brayton cycles with regeneration and reheat. I.C. Engines: air-standard Otto, Diesel cycles. Refrigeration and air-conditioning: Vapour refrigeration cycle, heat pumps, gas refrigeration, Reverse Brayton cycle; moist air: psychrometric chart, basic psychrometric processes. Turbomachinery: Pelton-wheel, Francis and Kaplan turbines - impulse and reaction principles, velocity diagrams.	
	Manufacturing and Industrial Engineering Engineering Materials: Structure and properties of engineering materials, heat treatment, stress- strain diagrams for engineering materials.	
	Metal Casting: Design of patterns, moulds and cores; solidification and cooling; riser and gating design, design considerations.	
	Forming: Plastic deformation and yield criteria; fundamentals of hot and cold working processes; load estimation for bulk (forging, rolling, extrusion, drawing) and sheet (shearing, deep drawing, bending) metal forming processes; principles of powder metallurgy.	
	Machining and Machine Tool Operations: Mechanics of machining, single and multi-point cutting tools, tool geometry and materials, tool life and wear; economics of machining; principles of non- traditional machining processes; principles of work holding, principles of design of jigs and fixtures.	
	Metrology and Inspection: Limits, fits and tolerances; linear and angular measurements; comparators; gauge design; interferometry; form and finish measurement; alignment and testing methods; tolerance analysis in manufacturing and assembly.	
	Computer Integrated Manufacturing: Basic concepts of CAD/CAM and their integration tools.	

Operations Research: Linear programming, simplex and duplex method, transportation, assignment network flow models, simple queuing models, PERT and CPM.

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