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72%(47)72% found this document useful (47 votes)54k views1 page, active Share the publicationSave the publication to a stackLike to get better recommendationsThe publisher does not have the license to enable download Sonal Vaid Content Curator | Updated On - Jun 23, 2022 GATE 2023 Syllabus 2023 will be released by IIT Kanpur (Organizing Institute) for all the 29 papers. Candidates will be able to download GATE 2023 Syllabus PDF for CS, EE, CE, SE, and other papers from the official website- gate.iitk.ac.in. No new changes are expected in GATE 2023 Syllabus. Candidates can divide GATE 2023 Syllabus into two parts- General Aptitude (GA) and Core Discipline. The General Aptitude section is common in all GATE 2023 Syllabus PDF carrying a weightage of 15% marks. Meanwhile, the remaining 85% weightage is for topics from Core Discipline. Candidates can download GATE Syllabus PDF for each of the papers using the links mentioned in the article below. IIT Kanpur will conduct GATE 2023 in the first and second weeks of February 2023. The exam is held online as a 3-hour computer-based test. GATE Question Paper consists of 65 MCQs, NATs and/or MSOs carrying 1 or 2 marks each. Check GATE 2023 Exam Pattern GATE Syllabus 2023 PDF Download Quick Links: GATE General Aptitude Syllabus General Aptitude (GA) is a common section in all GATE Syllabus and holds 15% weightage of the total marks. The questions in GA are based on verbal, numerical, quantitative ability and spatial aptitude. Important Topics under GATE 2023 Syllabus for General Aptitude is as follows: Download GATE Syllabus for General Aptitude PDF GATE Engineering Mathematics Syllabus Engineering Mathematics holds 13% weightage in GATE Syllabus for papers with codes- AE, AG, BM, BT, CE, CH, CS, EC, EE, ES, IN, ME, MN, MT, NM, PE, PI and TF. However, for XE (Engineering Sciences paper), Engineering Mathematics holds 15% in the question paper. GATE Engineering Mathematics Syllabus 2023 has different topics based on the paper code with Linear Algebra and Calculus as the common topics for all the papers. GATE Engineering Mathematics Syllabus tests a candidate's skills in mathematical methods and techniques which are majorly used in engineering. Paper-wise important topics for GATE 2023 Syllabus for Engineering Mathematics have been tabulated below: GATE Paper Engineering Mathematics Important Topics Aerospace Engineering (AE) Linear Algebra, Calculus, Differential Equations Agricultural Engineering (AG) Linear Algebra, Calculus, Differential Equations, Vector Calculus, Probability, and Statistics, Numerical Methods Biomedical Engineering (BM) Linear Algebra, Calculus, Differential Equations, Analysis of complex variables, Probability, and Statistics, Numerical Methods Biotechnology (BT) Linear Algebra, Calculus, Differential Equations, Probability, and Statistics, Numerical Methods Civil Engineering (CE) Linear Algebra, Calculus, Ordinary Differential Equations (ODE), Partial Differential Equations (PDE), Probability and Statistics, Numerical Methods Chemical Engineering (CH) Linear Algebra, Calculus, Differential Equations; Probability and Statistics, Numerical Methods Computer Science and Information Technology (CS) Linear Algebra, Calculus, Probability, and Statistics; Discrete Mathematics Electronics and Communication (EC) Linear Algebra, Calculus, Differential Equations, Probability and Statistics, Vector Analysis, Complex Analysis Electrical Engineering (EE) Linear Algebra, Calculus, Differential Equations, Probability and Statistics, Complex Variables Environmental Science and Engineering (ES) Linear Algebra, Calculus, Differential Equations, Probability and Statistics Instrumentation Engineering (IN) Linear Algebra, Calculus, Differential Equations, Analysis of Complex Variables, Probability and Statistics, Numerical Methods Mechanical Engineering (ME) Linear Algebra, Calculus, Differential Equations, Complex Variables, Probability and Statistics, Numerical Methods Mining Engineering (MN) Linear Algebra, Calculus, Differential Equations, Vector Calculus, Probability and Statistics, Numerical Methods Metallurgical Engineering (MT) Linear Algebra, Calculus, Differential Equations, Vector Calculus, Probability and Statistics, Numerical Methods Petroleum Engineering (PE) Linear Algebra, Calculus, Differential Equations, Probability and Statistics, Numerical Methods, Complex Variables Production and Industrial Engineering (PI) Linear Algebra, Calculus, Differential Equations, Complex Variables, Probability and Statistics, Numerical Methods Textile Engineering and Fiber Science (TF) Linear Algebra, Calculus, Differential Equations, Probability and Statistics, Numerical Methods Engineering Sciences (XE) Linear Algebra, Calculus, Ordinary Differential Equations (ODE), Partial Differential Equations (PDE), Probability and Statistics, Numerical Methods Gate Syllabus for CSE is divided into three sections- General Aptitude, Engineering Mathematics and Core Discipline. General Aptitude section carries 15 marks, Engineering Mathematics about 13 marks and 72 marks for the topics from Core Discipline. The table below shows the weightage of important topics from GATE CSE Syllabus for last year. Candidates can refer to the table below to know the expected number of questions from each topic; Topic Sub-Topics Discrete Mathematics Propositional and first order logic. Sets relations, functions, partial orders and lattices. Monoids, Groups, Graphs; connectivity, matching, coloring. Combinatorics; counting, recurrence relations, generating functions Digital Logic Boolean algebra. Combinational and sequential circuits. Minimization. Number representations and computer arithmetic (fixed and floating-point) Computer Organization and Architecture Machine instructions and addressing modes. ALU, data-path and control unit. Instruction pipelining, pipeline hazards, Memory hierarchy; cache, main memory and secondary storage; I/O interface (interrupt and DMA mode) Programming and Data Structures Programming in C. Recursion, Arrays, stacks, queues, linked lists, trees, binary search trees, binary heaps, graphs Algorithms Searching, sorting, hashing, Asymptotic worst-case time and space complexity. Algorithm design techniques: greedy, dynamic programming and divide-and-conquer. Graph traversals, minimum spanning trees, shortest paths Theory of Computation Regular expressions and finite automata. Context-free grammars and push-down automata. Regular and context-free languages, pumping lemma. Turing machines and undecidability. Compiler Design Lexical analysis, parsing, syntax-directed translation. Runtime environments. Intermediate code generation. Local optimization, Data flow analyses: constant propagation, liveness analysis, common subexpression elimination Operating System System calls, processes, threads, inter-process communication, concurrency and synchronization. Deadlock. CPU and I/O scheduling. Memory management and virtual memory. File systems Databases ER-model. Relational model: relational algebra, tuple calculus, SQL. Integrity constraints, normal forms. File organization, indexing (e.g., B and B+ trees). Transactions and concurrency control Computer Networks Concept of layering: OSI and TCP/IP Protocol Stacks; Basics of packet, circuit and virtual circuit-switching; Data link layer: framing, error detection, Medium Access Control, Ethernet bridging; Routing protocols: shortest path, flooding, distance vector and link-state routing; Fragmentation and IP addressing, IPv4, CIDR notation, Basics of IP support protocols (ARP, DHCP, ICMP), Network Address Translation (NAT); Transport layer: flow control and congestion control, UDP, TCP, sockets; Application layer protocols: DNS, SMTP, HTTP, FTP, Email Topics Year-wise Weightage of Important Topics (Marks) GATE 2023 (Expected) GATE 2021 GATE 2020 GATE 2019 GATE 2018 GATE 2017 GATE 2016 General Aptitude 15 15 15 15 15 15 15 Engineering Mathematics 13 6 5 6 7 8 10 Discrete Mathematics 13 6 5 6 7 8 10 Digital Logic 6 5 4 9 4 5 5 Computer Organization and Architecture 9 6 11 3 11 9 7 Programming and Data Structures 15 8 12 10 14 11 Algorithms 7 12 6 7 7 11 Theory of Computation 6 4 8 6 4 6 4 Operating System 9 5 10 10 10 10 Databases 7 8 8 8 4 6 Computer Networks 10 8 6 10 7 7 9 Also Check: GATE CSE Exam Pattern 2023 GATE CSE Question Papers PDF Download GATE Syllabus for Mechanical Engineering (ME) is majorly divided into five sections with several sub-topics under each section: General Aptitude Engineering Mathematics Applied Mechanics and Design Fluid Mechanics and Thermal Sciences Materials, Manufacturing and Industrial Engineering, General Aptitude section carries a weightage of 15 marks, Engineering Mathematics for 13 marks while the rest for other topics from the syllabus. Candidates can check the previous year weightage of important topics from GATE Syllabus for ME for better preparation strategy. Topics Sub-Topics Applied Mechanics and Design Engineering Mechanics Free-body diagrams and equilibrium; friction and its applications including rolling friction, belt-pulley, brakes, clutches, screw jack, wedge, vehicles, etc.; trusses and frames; virtual work; kinematics and dynamics of rigid bodies in plane motion; impulse and momentum (linear and angular) and energy formulations; Lagrange's equation Mechanics of Materials Stress and strain, elastic constants, Poisson's ratio; Mohr's circle for plane stress and plane strain; thin cylinders; shear force and bending moment diagrams; bending and shear stresses; concept of shear centre; deflection of beams; torsion of circular shafts; Euler's theory of columns; energy methods; thermal stresses; strain gauges and rosettes; testing of materials with universal testing machine; testing of hardness and impact strength Theory of Machines Displacement, velocity and acceleration analysis of plane mechanisms; dynamic analysis of linkages; cams; gears and gear trains; flywheels and governors; balancing
of reciprocating and rotating masses; gyroscopic vibrations Free and forced vibrations of single degree of freedom systems, effect of damping; vibration isolation; resonance; critical speeds of shafts Machine Design Design for static and dynamic loading; failure theories; fatigue strength and S-N diagram; principles of the design of machine elements such as bolts, riveted and welded joints, shafts, gears, rolling and sliding contact bearings, brakes and clutches, springs Fluid Mechanics and Thermal Sciences Fluid properties; fluid statics, forces on submerged bodies, stability of floating bodies; control-volume analysis of mass, momentum and energy; fluid acceleration; differential equations of continuity and momentum; Bernoulli's equation; dimensional analysis; viscous flow of incompressible fluids, boundary layer, elementary turbulent flow, flow through pipes, head losses in pipes, bends and fittings; basics of compressible fluid flow Heat-Transfer Modes of heat transfer; one-dimensional heat conduction, resistance concept and electrical analogy, heat transfer through fins; unsteady heat conduction, lumped parameter system, Heisler's charts; thermal boundary layer, dimensionless parameters in free and forced convective heat transfer, heat transfer correlations for flow over flat plates and through pipes, effect of turbulence; heat exchanger performance, LMTD and NTU methods; radiative heat transfer, Stefan-Boltzmann law, Wien's displacement law, black and grey surfaces, view factors, radiation network analysis Thermodynamics Thermodynamic systems and processes; properties of pure substances, behavior of ideal and real gases; zeroth and first laws of thermodynamics, calculation of work and heat in various processes; second law of thermodynamics; thermodynamic property charts and tables, availability and irreversibility; thermodynamic relations Applications Power Engineering: Air and gas compressors; vapour and gas power cycles, concepts of regeneration and reheat. I.C. Engines: Air-standard Otto, Diesel and dual cycles. Refrigeration and air-conditioning: Vapour and gas refrigeration and heat pump cycles; properties of moist air, psychrometric chart, basic psychrometric processes. Turbines: Impulse and reaction principles, velocity diagrams, Pelton wheel, Francis and Kaplan turbines; steam and gas turbines Materials, Manufacturing and Industrial Engineering Engineering Materials Structure and properties of engineering materials; phase diagrams, heat treatment, stress-strain diagrams for engineering materials Casting, Forming and Joining Processes Different types of castings, design of patterns, moulds and cores; solidification and cooling; riser and gating design; 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. Principles of welding, brazing, soldering and adhesive bonding Machining and Machine Tool Operations Mechanics of machining; basic machine tools; 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, jigs and fixtures; abrasive machining processes; NC/CNC machines and CNC programming Metrology and Inspection Limits, fits and tolerances; linear and angular measurements; comparators; interferometry; form and finish measurement; alignment and testing methods; tolerance analysis in manufacturing and assembly; concepts of coordinate-measuring machine (CMM) Computer Integrated Manufacturing Basic concepts of CAD/CAM and their integration tools; additive manufacturing Production Planning and Control Forecasting models, aggregate production planning, scheduling, materials requirement planning; lean manufacturing Inventory Control Deterministic models; safety stock inventory control systems Operations Research Linear programming, simplex method, transportation, assignment, network flow models, simple queuing models, PERT and CPM Topics Year-wise Weightage of Important Topics (Marks) GATE 2023 (Expected) GATE 2021 GATE 2020 GATE 2019 GATE 2018 GATE 2017 GATE 2016 General Aptitude 14-15 15 15 15 15 15 15 Engineering Mathematics 15 13 16 12 13 13 13 14 Applied Mechanics and Design Engineering Mechanics 2-3 0 4 3 4 5 3 3 4 Mechanics of Materials/Strength of Materials 9-10 9 5 9 9 9 9 12 8 Theory of Machines 6-7 8 12 10 8 11 Vibrations 6 2 3 1 2 3 0 3 Machine Design 4 3 4 3 2 5 1 0 3 4 5 Fluid Mechanics and Thermal Sciences Fluid Mechanics 6-7 4 9 8 5 6 10 Heat-Transfer 5 6 4 3 3 5 7 2 3 5 6 Thermodynamics 12-13 9 7 4 5 4 5 4 4 Applications 5 7 9 6 5 4 9 7 4 Materials, Manufacturing and Industrial Engineering Engineering Materials 1-2 0 1 2 0 3 1 0 2 Casting, Forming and Joining Processes; Machining and Machine Tool Operations; Metrology and Inspection; Production Planning and Control 14-15 16 14 15 18 19 16 10 Industrial Engineering, Operations Research, Computer Integrated Manufacturing 7-8 8 5 9 6 5 4 6 4 7 Also Check: GATE ME Exam Pattern 2023 GATE ME Question Papers PDF Download GATE Syllabus for Civil Engineering is divided into eight sections with several topics and sub-topics under each section: General Aptitude Engineering Mathematics Structural Engineering Geomatics Engineering Water Resources Engineering Environmental Engineering Transportation Engineering Geomatics Engineering Topics Sub-Topics Structural Engineering Mechanics System of forces, free-body diagrams, equilibrium equations; Internal forces in structures; Frictions and its applications; Central mass; Free Vibrations of undamped SDOF system Soil Mechanics Bending moment and shear force in statically determinate beams; Simple stress and strain relationships; Simple bending theory, flexural and shear stresses, shear centre; Uniform torsion, Transformation of stress; buckling of column, combined and direct bending stresses Structural Analysis Statically determinate and indeterminate structures by force/energy methods; Method of superposition; Analysis of trusses, arches, beams, cables and frames; Displacement methods: Slope deflection and moment distribution methods; Influence lines; Stiffness and flexibility methods of structural analysis Construction Materials and Management Construction Materials: Structural Steel – Composition, material properties and behaviour; Concrete – Constituents, mix design, short-term and long-term properties. Construction Management: Types of construction projects; Project planning and network analysis - PERT and CPM; Cost estimation Concrete Structures Working stress and Limit state design concepts; Design of beams, slabs, columns; Bond and development length; Prestressed concrete beams Steel Structures Working stress and Limit state design concepts; Design of tension and compression members, beams and beam-columns, column bases; Connections – simple and eccentric, beam-column connections, plate girders and trusses; Concept of plastic analysis – beams and frames Geotechnical Engineering Soil Mechanics Three-phase system and phase relationships, index properties; Unified and Indian standard soil classification system; Permeability - one-dimensional flow, Seepage through soils - two- dimensional flow, flow nets, uplift pressure, piping, capillary, seepage force; Principle of effective stress and quicksand condition; Compaction of soils: One- dimensional consolidation, time rate of consolidation; Shear Strength, Mohr's circle, effective and total shear strength parameters, Stress-Strain characteristics of clays and sand; Stress paths Foundation Engineering Sub-surface investigations - Drilling boreholes, sampling, plate load test, standard penetration and cone penetration tests; Earth pressure theories - Rankine and Coulomb; Stability of slopes – Finite and infinite slopes, Bishop's method; Stress distribution in soils – Boussinesq's theory; Pressure bulbs, Shallow foundations – Terzaghi's and Meyerhoff's bearing capacity theories, effect of water table; Combined footing and raft foundation; Contact pressure; Settlement analysis in sands and clays; Deep foundations – dynamic and static formulas, Axial load capacity of piles in sands and clays, pile load test, pile under lateral loading, pile group efficiency, negative skin friction Water Resources Engineering Fluid Mechanics Properties of fluids, fluid statics; Continuity, momentum and energy equations and their applications; Potential flow, Laminar and turbulent flow; Flow in pipes, pipe networks; Concept of boundary layer and its growth; Concept of lift and drag Hydraulics Forces on immersed bodies; Flow measurement in channels and pipes; Dimensional analysis and hydraulic similitude; Channel Hydraulics - Energy-depth relationships, specific energy, critical flow, hydraulic jump, uniform flow, gradually varied flow and water surface profiles Hydrology Hydrologic cycle, precipitation, evaporation, evapotranspiration, watershed, infiltration, unit hydrographs, hydrograph analysis, reservoir capacity, flood estimation and routing, surface runoff models, groundwater hydrology – steady state well hydraulics and aquifers; Application of Darcy's Law Irrigation Types of irrigation systems and methods; Crop water requirements - Duty, delta, evapotranspiration; Gravity Dams and Spillways; Lined and unlined canals; Design of weirs on permeable foundation; cross drainage structures Environmental Engineering Water and Waste Water Quality and Treatment Basics of water quality standards – Physical, chemical and biological parameters; Water quality index; Unit processes and operations; Water requirement; Water distribution system; Drinking water treatment; Sewerage system design, quantity of domestic wastewater, primary and secondary treatment. Effluent discharge standards; Sludge disposal; Reuse of treated sewage for different applications Air
Pollution Types of pollutants, their sources and impacts, air pollution control, air quality standards, Air quality Index and limits Municipal Solid Wastes Characteristics, generation, collection and transportation of solid wastes, engineered systems for solid waste management (reuse/ recycle, energy recovery, treatment and disposal) Transportation Engineering Transportation Infrastructure Geometric design of highways - cross-sectional elements, sight distances, horizontal and vertical alignments. Geometric design of railway Track – Speed and Cant. Concept of airport runway length, calculations and corrections; taxiway and exit taxiway design Highway Pavements Highway materials - desirable properties and tests; Desirable properties of bituminous paving mixes; Design factors for flexible and rigid pavements; Design of flexible and rigid pavement using IRC codes Traffic Engineering Traffic studies on flow and speed, peak hour factor, accident study, statistical analysis of traffic data; Microscopic and macroscopic parameters of traffic flow, fundamental relationships; Traffic signs; Signal design by Webster's method; Types of intersections; Highway capacity Geomatics Engineering Geomatics Engineering Principles of surveying; Errors and their adjustment; Maps - scale, coordinate system; Distance and angle measurement - Levelling and trigonometric levelling; Traversing and triangulation survey; Total station; Horizontal and vertical curves. Photogrammetry and Remote Sensing - Scale, flying height; Basics of remote sensing and GIS GATE 2023 Syllabus for CE - Weightage of Important Topics Topics Year-wise Weightage of Important Topics (Marks) GATE 2023 (Expected) GATE 2021 GATE 2020 GATE 2019 GATE 2018 GATE 2017 GATE 2016 General Aptitude 15 15 15 15 15 15 15 Engineering Mathematics 13 6 5 6 7 8 10 Discrete Mathematics/Strength of Materials 13 6 5 6 7 8 10 Digital Logic 6 5 4 9 4 5 5 Computer Organization and Architecture 9 6 11 3 11 9 7 Construction Materials and Management 3 1 1 3 1 Concrete Structures 7 5 5 5 5 Steel Structures 3 2 5 4 2 Geotechnical Engineering Soil Mechanics 12 15 14 16 14 13 Foundation Engineering Water Resources Engineering Fluid Mechanics 7 8 9 8 8 Hydraulics Hydrology 4 4 5 5 6 Irrigation Environmental Engineering Water and Waste Water Quality and Treatment 11 11 9 10 11 Air Pollution Municipal Solid Wastes Transportation Engineering Transportation Infrastructure 8 11 11 10 9 Highway Pavements Traffic Engineering Geomatics Engineering Geomatics Engineering 5 5 7 6 4 4 Also Check: GATE CE Exam Pattern 2023 GATE CE Question Papers PDF Download GATE Syllabus for Electrical Engineering is divided into 11 sections with various topics under each section: General Aptitude Engineering Mathematics Electric Circuits Electromagnetic Fields Signals and Systems Electrical Machines Power Systems Control Systems Electrical and Electronic Measurements Analog and Digital Electronics Power Electronics The General Aptitude section from GATE Syllabus for EE carries 15 marks weightage while the rest topics cover 85 marks. 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