



LIST OF BOOKS TOPIC WISE FOR GATE CIVIL

Sections	Important Topics	Books
Engineering Mathematics	Linear Algebra Calculus Complex Analysis Differential Equations Probability and Statistics	Discrete Mathematics and Its Applications by Kenneth Rosen Higher Engineering mathematics by B.S. Grewal Advanced Engineering Mathematics by Erwin Kreyszig
Structural Engineering	Statically Determinate and Indeterminate Structures by Force/Energy Methods Method of Superposition Analysis of Trusses Structural Analysis with all its Methods	Theory of Structure by CK Wang, S. Rammamrutham, L.S. Negi & Jangit Theory of Elasticity by Timoshenko & Gere Theory of Structure by Wilbur & Norris Strength of Materials/Mechanics of Structure by Gere & Timoshenko, E. Popove, L. Singer, B.C. Punamia, Rammamrutham
Geotechnical Engineering	Basic Properties and Classification of Soils Consolidation Permeability	Soil Mechanics by Gopal Ranjan & Rao, Venkat Ramaiha, S. K. Garg, B.C. Punamia, V N S Murthy

<p>Water Resources Engineering</p>	<p>Seepage Shear Strength of Soil Stability Analysis of Slopes Bearing Capacity Foundation Engineering Concrete Technology Fluid Statics Kinematics Dynamics Laminar – Turbulent Flow Flow Through Pipes Open Channel Flow Hydraulics BL Theory Dimension Analysis Hydraulic Pumps Hydrologic Cycle Ground Water Hydrology</p>	<p>Water Resources by S K Garg Water and Waste Water by SK Garg 1 and 2 Fluid Mechanics- RK Bansal and Fox and Richard</p>
<p>Transportation Engineering</p>	<p>Highway Engineering Transportation Infrastructure Geometric Design of Railway</p>	<p>Transportation by Justo Khanna</p>



<p>Environmental engineering</p>	<p>Track Highway Pavements Traffic Engineering Quality Standards Domestic Wastewater Treatment Water and Waste Water Disposal Air Pollution Meteorology Noise Pollution Municipal Solid Waste Quality and Characteristics of Sewage Treatment of Sewage</p>	<p>Environmental Engineering by S. K. Garg Part I & Part II Waste Water Engineering by B. C. Punmia Part I & Part II</p>
<p>Geomatics Engineering</p>	<p>Basics of Geographical Information System (GIS) Geographical Positioning System (GPS) Linear Measurements Compass Survey Leveling</p>	<p>Surveying (vol. 1,2,3) by</p>

