

# List of Books

## B.Tech 3<sup>rd</sup> Semester(CIVIL ENGINEERING)

Subject	Textbook	Reference books
1.Solid of Mechanics	<ul style="list-style-type: none"> <li>• R.K Bansal</li> <li>• R.S Khurmi</li> <li>• S. Ramamrutham</li> </ul>	<ul style="list-style-type: none"> <li>• Ferdinand P. Beer, E. Russell Johnston Jr., John T. Dewolf and David F. Mazurek, 'Mechanics of Materials (In SI Units)'</li> <li>• D.K. Singh, 'Mechanics of Solids', Pearson Education, 2002.</li> <li>• Stephen H. Crandall, Norman C. Dahl and Thomas J. Lardner, 'An Introduction to the Mechanics of Solids', McGraw-Hill International Editions.</li> <li>• Egor P. Popov, 'Engineering Mechanics of Solids', Prentice-Hall of India. University chemistry, by B. H. Mahan</li> </ul>
2. Fluid Mechanics	<ul style="list-style-type: none"> <li>• R.K Bansal</li> <li>• P.N. Modi and S.M. Seth</li> </ul>	<ul style="list-style-type: none"> <li>• S. Subraminayam, 'Flow in Open Channels', Tata McGraw Hill.</li> <li>• Robert N. Fox &amp; Alan T. Macnold, 'Introduction to Fluid Mechanics'</li> <li>• Jagdish Lal, 'Fluid Mechanics', Metropolitan Book Co. (P) Ltd.</li> </ul>
3. Mathematics-III	<ul style="list-style-type: none"> <li>• B.S Grewal</li> </ul>	<ul style="list-style-type: none"> <li>• Erwin Kreyszig, Advanced Engineering Mathematics, 9th Edition, John Wiley &amp; Sons, 2006.</li> <li>• B.S. Grewal, Higher Engineering Mathematics, Khanna Publishers, 35th Edition, 2000.</li> <li>• Veerarajan T., Engineering Mathematics, Tata McGraw-Hill, New Delhi, 2008.</li> <li>• Thomas and Finney, Calculus and Analytic Geometry, 9th Edition, Pearson, 2017.</li> <li>• R. K. Jain and S.R.K Iyengar Advanced Engineering Mathematics, 5th Edition, 2017.</li> </ul>
4. Basic of Electronics & Communication in Civil Engg.		<ul style="list-style-type: none"> <li>• David. A. Bell (2003), Laboratory Manual for Electronic Devices and Circuits, Prentice Hall, India.</li> <li>• SantiramKal (2002), Basic Electronics- Devices, Circuits and IT Fundamentals, Prentice Hall, India.</li> <li>• Thomas L. Floyd and R. P. Jain (2009), Digital Fundamentals by Pearson Education.</li> <li>• Paul B. Zbar, A.P. Malvino and M.A. Miller (2009), Basic Electronics – A Text-Lab. Manual, TMH</li> <li>• R. T. Paynter (2009), Introductory Electronic Devices &amp; Circuits, Conventional Flow Version, Pearson.</li> </ul>
5. Surveying & Geomatics	<ul style="list-style-type: none"> <li>• B.C. Punmia,</li> <li>• C.L Kocchar</li> </ul>	<ul style="list-style-type: none"> <li>• Duggal, S.K., Surveying Vol I &amp; II, Tata McGraw Hill</li> <li>• Punmia, B.C., Jain, Ashok Kumar and Jain, Arun Kumar, Surveying Vol. I, II &amp; III, Laxmi Publications</li> <li>• Agor, R., Surveying, Khanna Publishers</li> <li>• Bhavikatti, S.S. Surveying &amp; Levelling Volume I &amp; II</li> </ul>

<p>6. Civil Engineering- Introduction, Societal &amp; Global Impact</p>		<ul style="list-style-type: none"><li>• Salvadori, M and Heller, M, Structures in Architectures, PHI.</li><li>• Fintel, C, Handbook of Civil Engineering, CBS Publications.</li><li>• Ž iga Turk (2014), Global Challenges and the Role of Civil Engineering, Chapter 3 in: Fischinger M. (eds) Performance-Based Seismic Engineering: Vision for an Earthquake Resilient Society. Geotechnical, Geological and Earthquake Engineering, Vol. 32. Springer, Dordrecht</li><li>• NAE Grand Challenges for Engineering (2006), Engineering for the Developing World, The Bridge, Vol 34,</li></ul>
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## B.Tech 5th Semester(CIVIL ENGINEERING)

Subject	Textbook	Reference books
1. Transportation Engg.	<ul style="list-style-type: none"> <li>• S.K. Khanna and C.E.G. Justo,</li> <li>• 2. L.R. Kadiyali,</li> <li>• S.K. Sharma,</li> </ul>	<ul style="list-style-type: none"> <li>• C.A.O. Flaherty, 'Highway Engineering', Vol. 2, Edward Arnold, London.</li> <li>• Mannering, 'Principles of Highway Engineering &amp; Traffic Analysis', Wiley Publishers, New Delhi. ENVIRONMENTA</li> </ul>
2. Design of Steel structure	<ul style="list-style-type: none"> <li>• S.K Duggal</li> <li>• S.S Bhavikatti</li> </ul>	<ul style="list-style-type: none"> <li>• S.K. Duggal, 'Limit State Design of Steel Structures', McGraw Hill.</li> <li>• N. Subramanian, 'Design of Steel Structures', Oxford Higher Education.</li> <li>• Design of Steel Structures', Vol. -1, Ram Chandra Standard Book House – Rajsons. S S Bhavikatti, 'Design of Steel Structures' (by limit state method as per IS: 800-2007)', I.K. International Publishing House.</li> <li>• IS 800: 2007 (General construction in Steel-Code of practice)'. </li> </ul>
3. Environmental Engineering	<ul style="list-style-type: none"> <li>• B.C Punmia</li> <li>• S.K Garg</li> </ul>	<ul style="list-style-type: none"> <li>• B.C. Punmia, Ashok Jain, 'Waste Water Engg. (Environmental Engg.-II)', Laxmi Publications, New Delhi.</li> <li>• 2. Arcadio P. Sincero and Gregoria P. Sincero, 'Environmental Engg. - A Design Approach', Prentice Hall of India, New Delhi.</li> <li>• 3. Metcalf &amp; Eddy, 'Waste Water Engineering - Treatment and Reuse', TMH, New Delhi.</li> <li>• 4. Howard S. Peavy, Donald R. Rowe &amp; George Tchobanoglous, 'Environmental Engg.', International Edition, McGraw Hill.</li> <li>• 5. S.K. Garg, 'Environmental Engineering (Vol. II)', Khanna Publishers, Delhi.</li> </ul>
4. Geomatics Eng.	<ul style="list-style-type: none"> <li>• E.D Kaplan</li> </ul>	<ul style="list-style-type: none"> <li>• I. Heywood, S. Cornelius, Steve Crver, 'An Introduction to Geographical Information Systems', Pearson Education, 2003.</li> <li>• 2. F.F. Sabbins, 'Remote Sensing Principles and Interpretation', W.H. Freeman and Company, 1985.</li> <li>• 3. E.D. Kaplan, 'Understanding GPS: Principles and Applications', Artec House.</li> </ul>
5. Disaster Management	<ul style="list-style-type: none"> <li>• R.B singh</li> </ul>	<ul style="list-style-type: none"> <li>• Iyengar, C.B.R.I., 'Natural Hazards in the Urban Habitat', Tata McGraw Hill Publications.</li> <li>• Jon Ingleton (Ed), 'Natural Disaster Management', Tudor Rose, Leicester.</li> <li>• R.B. Singh (Ed), 'Disaster Management', Rawat Publications.</li> </ul>

6. Soft Skill-III	<ul style="list-style-type: none"><li>• K.Alex</li><li>• R.C Sharma</li></ul>	<ul style="list-style-type: none"><li>• K. Alex, S. Chand Publishers.</li><li>• R.C. Sharma and Krishna Mohan, 'Business Correspondence and Report Writing', TMH, New Delhi, 2016.</li><li>• N. Krishnaswami and T. Sriraman, 'Creative English for Communication', Macmillan.</li><li>• Penrose, M. John, et al., 'Business Communication for Managers', Thomson South Western, New Delhi, 2007.</li><li>• Holtz, Shel, 'Corporate Conversations', PHI, New Delhi, 2007.</li></ul>
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# B.Tech 7th Semester(CIVIL ENGINEERING)

Subject	Textbook	Reference books
1.Design of Steel Structure-II	<ul style="list-style-type: none"> <li>• S.K Duggal</li> <li>• S.S Bhavikatti</li> </ul>	<ul style="list-style-type: none"> <li>• S.K. Duggal, 'Limit State Design of Steel Structures'.</li> <li>• N. Subramanian, 'Design of Steel Structures'.</li> <li>• Ram Chandra, 'Design of Steel Structures', Vol. 2.</li> <li>• L.S. Negi, 'Design of Steel Structures'.</li> <li>• S.S. Bhavikatti, 'Design of Steel Structures (by limit state method as per IS: 800-2007).</li> <li>• IS 800: 2007 (General Construction in Steel-Code of Practice) *</li> <li>• SP: 6(1) (Handbook for Structural Engineers-Structural Steel Sections) *</li> </ul>
2. Foundation Engineering	<ul style="list-style-type: none"> <li>• K.R Arora</li> </ul>	<ul style="list-style-type: none"> <li>• K.R. Arora, 'Soil Mech. &amp; Foundation Engg.', Standard Publishers Distributors.</li> <li>• V.N.S. Murthy, 'Soil Mech. &amp; Foundation Engg.'.</li> <li>• Gopal Ranjan and A.S.R. Rao, 'Basic and Applied Soil Mechanics', New Age International.</li> <li>• Muni Budhu, 'Soil Mech. &amp; Foundations', Wiley, John Wiley &amp; Sons.</li> <li>• Gulhati and Datta, 'Geotechnical Engineering', Tata McGraw Hill Education. IRRIGATION ENGINEERING-II</li> </ul>
3. Irrigation Engineering-II	<ul style="list-style-type: none"> <li>• S.K Garg</li> <li>• P.N Modi</li> </ul>	<ul style="list-style-type: none"> <li>• Santosh Kumar Garg, 'Irrigation Engineering &amp; Hydraulic Structure', Khanna Publishers.</li> <li>• R.K. Sharma, 'Design of Irrigation Structures', Oxford IBH Publishers.</li> <li>• S.R. Sahasrabudhe, 'Irrigation Engineering and Hydraulics Structures', Katson Publishing.</li> <li>• K.B. Khushlani, 'Irrigation Practice and Design', Vol. I to VII, Oxford IBH Publishers.</li> <li>• P.N. Modi, 'Irrigation with Resources and with Power Engineering', Standard Book House.</li> <li>• Ivan E. Houk, 'Irrigation Engineering', Vol. I, II, John Wiley and Sons.</li> </ul>
4. Solid Waste Management	<ul style="list-style-type: none"> <li>• P.A Vesilind</li> <li>• A.D Bhide and B.B Sundarsan</li> </ul>	<ul style="list-style-type: none"> <li>• P.A. Vesilind, W. Worrell and D.R. Reinhart, 'Solid Waste Engineering', Thomson Books.</li> <li>• A.D. Bhide and B.B. Sundaresan, 'Solid Waste Management, Collection, Processing and Disposal', Nagpur.</li> <li>• G. Tchobanoglous, H. Theisen and S.A. Vigil, 'Integrated Solid Waste Management', McGraw Hill International Editions.</li> <li>• 'Manual on Municipal Solid Waste Management', CPHEEO, Ministry of Urban Development, Government of India.</li> </ul>