

Recommended Books

• 1st Semester

1. Applied Mathematics-1

Text:

- [T1] B. S. Grewal, "Higher Engineering Mathematics" Khanna Publications.
[T2] R. K. Jain and S.R.K. Iyengar, "Advanced Engineering Mathematics" Narosa Publications.

References:

- [R1] E. kresyzig, "Advance Engineering Mathematics", Wiley publications
[R2] G.Hadley, "Linear Algebra" Narosa Publication
[R3] N.M. Kapoor, "A Text Book of Differential Equations", Pitambar publication.
[R4] Wylie R, "Advance Engineering mathematics", McGraw-Hill
[R5] Schaum's Outline on Linear Algebra, Tata McGraw-Hill
[R6] Polking and Arnold, "Ordinary Differential Equation using MatLab" Pearson.

2. Applied Physics-1

You won't find the whole syllabus in one book try to attend the classes and take notes if possible !!

Text Books:

- [T1] Arthur Beiser, 'Concepts of Modern Physics', [McGraw-Hill], 6th Edition 2009
[T2] A. S.Vasudeva, 'Modern Engineering Physics', S. Chand, 6th Edition, 2013.

Reference Books

- [R1] A. Ghatak 'Optics', TMH, 5th Edition, 2013
[R2] G. Aruldas 'Engineering Physics' PHI 1st Edition, 2010.
[R3] Fundamentals of Optics : Jenkins and White , Latest Edition
[R4] C. Kittle, "Mechanics", Berkeley Physics Course, Vol.-I.
[R5] Feynman "The Feynman lectures on Physics Pearson Volume 3 Millennium Edition, 2013
[R6] Uma Mukhrji 'Engineering Physics' Narosa, 3rd Edition, 2010.
[R7] H.K. Malik & A. K. Singh 'Engineering Physics' [McGraw-Hill], 1st Edition, 2009.

3. Manufacturing Processes

Text Books:

- [T1] Manufacturing Process by Raghuvanshi.(Dhanpat Rai and Co.)
[T2] Manufacturing Technology by P.N.Rao (TMH publications)

Reference Books:

- [R1] **Workshop Technology by Hazra-Chowdhary** (Most Recommended)
[R2] Production Engineering by R.K.Jain (Khanna Publishers)
[R3] Workshop Technology by Chapman (Elsevier Butterworth-Heinemann)
[R4] Fundamentals of Modern Manufacturing by Mikell P. Groover (Wiley India Edition)
[R5] Manufacturing Processes for Engineering Materials by Kalpakjian and Schmid (Pearson)

4. Electrical Technology

Text Books:

- [T1] J.B. Gupta (Recommended by seniors)
[T2] S.N Singh, "Basic Electrical Engineering" PHI India Ed 2012
[T3] Chakrabarti, Chanda, Nath "Basic Electrical Engineering" TMH India", Ed 2012.

Reference Books:

- [R1] William Hayt "Engineering Circuit Analysis" TMH India Ed 2012
[R2] Giorgio Rizzoni "Principles and Application of Electrical Engineering" Fifth Edition TMH India.

5. Human Values and Professional Ethics

Text Books:

- [T1] Professional Ethics, R. Subramanian, Oxford University Press.
- [T2] Professional Ethics & Human Values: S.B. Srivastha, SciTech Publications (India) Pvt. Ltd. New Delhi.
- [T3] Professional Ethics & Human Values: Prof. D.R. Kiran, TATA Mc Graw Hill Education.

References:

- [R1] Success Secrets for Engineering Students: Prof. K.V. SubbaRaju, Ph.D., Published by SMARTstudent. (Do read if you have time!).
- [R2] Ethics in Engineering Mike W. Martin, Department of Philosophy, Chapman University and Roland Schinzinger, School of Engineering, University of California, Irvine.
- [R3] Human Values: A. N. Tripathy (2003, New Age International Publishers)
- [R4] Value Education website, <http://www.universalhumanvalues.info>[16]
- [R5] Fundamentals of Ethics, Edmond G. Seebauer & Robert L. Barry, Oxford University Press.
- [R6] Human Values and Professional Ethics: R. R. Gaur, R. Sangal and G. P. Bagaria, Eecel Books (2010, New Delhi). Also, the Teachers' Manual by the same author.

6. **Fundamentals of Computing**

Text:

- [T1] **Peter Norton, Introduction to computers, Sixth Edition Tata McGraw Hill (2007).**
- [T2] Andrews Jean, A+Guide to Managing & Maintaining Your PC, Cengage Publication 6/e

References:

- [R1] Anita Goel, Computer Fundamentals, Pearson Education.
- [R2] Joiner Associates Staff, Flowcharts: Plain & Simple: Learning & Application Guide , Oriel Inc
- [R3] <http://www.openoffice.org/why/> [R4] <http://www.libreoffice.org/get-help/documentation/>

7. **Applied Chemistry**

Text Books:

- [T1] **P. C. Jain & Monika Jain, Engineering Chemistry, Latest edition, Dhanpat Rai Publishing Co., 2002.(More than enough)**
- [T2] P. Mathew, Advance Chemistry, 1 & 2 Combined Editions, Cambridge University Press, 2003.

Reference Books:

- [R1] P. W. Atkins and J. De Paula, Atkins' Physical Chemistry, Oxford, 2010.
- [R2] T. Engel and P. Reid, Physical Chemistry, Pearson Education, 2013.
- [R3] K. Qanungo, Engineering Chemistry, PHI Learning Private Limited, New Delhi, 2009.
- [R4] O. G. Palanna, Engineering Chemistry, Tata McGraw Hill Education Private Limited, 2012.
- [R5] D. A. Jones, Principles and Prevention of Corrosion, Prentice Hall, 2nd Edition, 1996.
- [R6] H. K. Chopra and A. Parmar, Engineering Chemistry-A Text Book, Narosa Publishing House, 2012.
- [R7] S. Chawla, Engineering Chemistry-All India Edition, Dhanpat Rai & Co., 2003.
- [R8] R. Gadi, S. Rattan and S. Mohapatra, Environmental Studies, S.K. Kataria & Sons, 2nd Edition 2009.

• **2nd Semester**

1. **Applied Mathematics-2**

Text:

- [T1] B.S. Grewal
- [T2] E. kresyzig, "Advance Engineering Mathematics", Wiley publications
- [T3] Michael Greenberg, "Advance Engineering mathematics", Pearson.

References:

- [R1] R.K. Jain and S.R.K. Iyengar, "Advanced Engineering Mathematics "Narosa Publications
- [R2] B. S. Grewal, "Higher Engineering Mathematics" Khanna Publications.

- [R3] S. Ponnusamy, "Foundation of Complex Analysis" Narosa Publication
 [R4] G.B. Thomas and R. N. Finny "Calculus and Analytic Geometry" Addison Wesley/ Narosa
 [R5] Wylie R, "Advance Engineering mathematics", McGraw-Hill
 [R6] M. Spiegel, "Schaum's Outline on Laplace Transform, Tata McGraw-Hill

2. **Applied Physics-2**

Text Books:

- [T1]. Arthur Beiser 'Concepts of Modern Physics', [McGraw-Hill], 6th Edition 2009.
 [T2]. A. S. Vasudeva, 'Modern Engineering Physics', S. Chand, 6th Edition, 2013.

Reference Books

- [R1]. Richard Wolfson 'Essential University Physics' Pearson, 1st edition, 2009.
 [R2]. H.K. Malik & A. K. Singh 'Engineering Physics' [McGraw-Hill], 1st Edition, 2009.
 [R3]. C. Kittel, 'Mechanics', Berkeley Physics Course, Vol.-I. Latest Edition.
 [R4]. Irving Kaplan 'Nuclear Physics' Latest Edition.
 [R5]. John R. Taylor, Chris D. Zafirator and Michael A. Dubson, 'Modern Physics For Scientists and Engineers', PHI, 2nd Edition.
 [R6]. D.J. Griffith, 'Introduction to Electrodynamics', Prentice Hall, Latest Edition.

3. **Electronic Devices**

TEXT BOOKS

1. S. Salivahanan, N. Suresh Kr. & A. Vallavaraj, "Electronic Devices & Circuit", Tata McGraw Hill, 2008
2. Millman, Halkias and Jit, "Electronic devices and circuits" McGraw Hill
3. Boylestad & Nashelsky, "Electronic Devices & Circuits", Pearson Education, 10TH Edition.

REFERENCE BOOKS

1. Sedra & Smith, "Micro Electronic Circuits" Oxford University Press, VI Edition
2. Robert T. Paynter, "Introducing Electronic Devices & Circuits", Pearson Education, VII Edition, 2006

4. **Introduction to Programming**

Text Books:

- [T1] Herbert Schildt, "C: The Complete Reference", OsbourneMcgraw Hill, 4th Edition, 2002.
 [T2] Forouzan Behrouz A. "Computer Science: A Structured Programming Approach Using C, Cengage Learning 2/e

Reference Books:

- [R1] Kernighan & Ritchie, "C Programming Language", The (Ansi C version), PHI, 2/e
 [R2] K.R Venugopal, "Mastering C", TMH
 [R3] R.S. Salaria "Application Programming in C" Khanna Publishers 4/e
 [R4] Yashwant Kanetkar "Test your C Skills", BPB Publications
 [R5] <http://www.codeblocks.org/> [R6] <http://gcc.gnu.org/>
 [R7] Programming in ANSI C, E. Balagurusamy; Mc Graw Hill, 6th Edition.

5. **Engineering Mechanics**

Text Books:

- T1. Engg Mechanics by A.K. Tayal (Umesh Publications).
 T2. Engg Mechanics by Basudeb Bhattacharya (Oxford university Press)

Reference Books:

- R1. Engg Mechanics by Irving H. Shames (Pearson publications).
 R2. Engg Mechanics by U.C. Jindal (Galgotia Publications).
 R3. Engg Mechanics by Beer & Johnston (TMH).
 R4. Engg Mechanics by K.L. Kumar (TMH).
 R5. Engg Mechanics by Sadhu Singh (Khanna Publishers).

6. Communication Skills

TEXT BOOKS

[T1] Technical Communication: Principles and practice (OUP), (Meenakshi Raman and Sangeeta Sharma) OXFORD UNIVERSITY PRESS

[T2] Communication Skills for Engineers, Murli Krishna, Pearson.

[T3] Wren and Martin: High School English Grammar and Composition; S. Chand

[T4] Exploration of Ideas; An Anthology of Prose: Orient Blackswan.

REFERENCE BOOKS:

[R1] Professional Communication: Aruna Koneru, MCGRAW HILLS EDUCATION PVT. LTD

[R2] Wren and Martin: High School English Grammar and Composition; S. Chand

[R3] Advanced English Grammar and Composition: Gurudas Mukherjee & Inidbar Mukherjee; (ANE BOOKS PVT. LTD.)

7. Environmental Studies

Text Books:

[T1] E. Barucha, Textbook of Environmental Studies for Undergraduate Courses, Universities Press (India) Pvt. Ltd., 2005.

[T2] S. Chawla, A Textbook of Environmental Studies, McGraw Hill Education Private Limited, 2012

References Books:

[R1] G. T. Miller, Environmental Science, Thomas Learning, 2012

[R2] W. Cunningham and M. A. Cunningham, Principles of Environment Science: Enquiry and Applications, Tata McGraw Hill Publication, N. Delhi, 2003.

[R3] R. Rajagopalan, Environmental Studies: From Crisis to Cure, 2nd Edition, Oxford University Press, 2011.

[R4] A.K. De, Environmental Chemistry, New Age Int. Publ. 2012,,

[R5] A. Kaushik and C.P. Kaushik, Perspectives in Environment Studies, 4th Edition, New Age International Publishers, 2013 .

[R6] Environmental Engineering by Gerard Kiely, Tata McGraw-Hill Publishing Company Ltd., New Delhi, 2010.

• 3rd Semester

1. Numerical Analysis and Statistical Techniques

Text Books:

[T1] R.K. Jain and S.R.K. Iyengar, "Numerical methods for Scientific and Engineering Computation", New Age.

[T2] N.M. Kapoor, "Fundamentals of Mathematical Statistics", Pitambar Publications

Reference Books:

[R1] E. kresyzig, "Advance Engineering Mathematics", Wiley publications

[R2] P. B. Patil and U. P. Verma, "Numerical Computational Methods", Narosa

[R3] Partial Differential Equations "Schaum's Outline Series", McGraw Hill.

[R4] Michael Greenberg, "Advance Engineering mathematics", Pearson.

[R5] Schaum's Outline on Fourier Analysis with Applications to Boundary Value Problem, TMH

[R6] B.S. Grewal, "Numerical Methods in Engg. And Science", Khanna Publications. (Recommended)

[R7] Miller and Freund, "Probability and statistics for Engineers", PHI

[R8] Gupta and Kapoor, "Fundamentals of Mathematical Statistics" Sultan Chand and Sons.

2. Strength of Material

Text Books:

[T1] James M Gere, "Strength of Materials", Cengage Publication

[T2] Timoshenko, Stephen, Elements of Strength of Materials Part-2, CBS publication

References:

- [R1] Mechanics of Materials, Popov E.P., Prentice Hall of India
- [R2] Solid Mechanics, S.M.A Kazmi
- [R3] Structures, Schodek, Pearson Education
- [R4] Strength of Materials, Nash, W.A., Tata Mc Graw Hill Publications
- [R5] Basic Structural Analysis, Reddy, Mc Graw Hill Publications
- [R6] B.S. Basavarajaiah, P. Mahadevappa, "Strength of Materials", 3rd Edition, University Press.

3. **Fluid Mechanics**

Text Books:

- [T1] R.J. Garde, "Fluid Mechanics through Problems", New Age Publications
 - [T2] A.K. Jain, "Fluid Mechanics and Fluid Machines", Khanna Publishers, New Delhi
- References:
- [R1] Victor Streeter, "Fluid Mechanics", International Edition, Tata McGraw Hill Publications
 - [R2] Hughes and Brighton, "Fluid Mechanics", Tata McGraw Hill
 - [R3] Shames, "Mechanics of Fluids", Tata McGraw Hill
 - [R4] Neville, "Fluid Mechanics", Pearson Education
 - [R5] A. James, Fay, "Introduction to Fluid Mechanics", PHI Publications

4. **Building Materials and Constructions**

Text Books:

- [T1] M.L.Gambhir and Neha Jamwal, "Building Materials", Tata McGraw Hill.
- [T2] Shushil kumar, "Building Construction", Standard Publication

References Books:

- [R1] Building Materials, P.C.Varghese, PHI Publications
- [R2] Building construction, P.C.Varghese, PHI Publications
- [R3] Engineering materials S.C. Rangwala, Charotar Publishing House
- [R4] Building Materials, Duggal, New Age Publication
- [R5] Building and Construction Materials, M.L. Gambhir and Neha Jamwal, Mc-Graw Hill

5. **Surveying**

Text Books:

- [T1] Plane Surveying, A.M. Chandra., New Age International Publications
- [T2] Punmia B.C., Jain A.K. and Jain A.K., "Surveying", Volume I and II, Laxmi Publications (P) Ltd., New Delhi.

References:

- [R1] K.R. Arora, Surveying Vol. I and II Standard Book House, New Delhi
- [R2] Surveying, Arthur Bannister, Pearson Education
- [R3] Surveying, Mimi Das Saikia, Madan Mohan Das, PHI Publications
- [R4] Fundamentals of Surveying, S.K. Roy, PHI Publications
- [R5] Surveying and Leveling, T. P. Kanetkar and Kulkarni, Standard Publishers
- [R6] C. Venkatramaiah, "Textbook of Surveying", 2nd Edition, University Press.

6. **Engineering Geology**

Text Books:

- [T1] D. Vankat Reddy, "Engineering Geology", Vikas Publications
- [T2] P.C.Varghese, "Engineering Geology for Civil Engineers", PHI Publications

References Books:

- [R1] Bangar, "Principles of Engineering Geology", Standard Publishers and distributors
- [R2] Kesavulu, "Textbook of Engineering Geology", Macmillan India Ltd
- [R3] Dona, Mineralogy, Willey Eastern Limited, 1992

- [R4] Hries and Watson, "Engineering Geology",
[R5] Tirifethen Van, "Geology of Engineering ", Nebard
[R6] Kanithi, "Engineering Geology", University Press

• **4th Semester**

1. Water Engineering

Text Books:

- [T1] S.K. Garg, "Water Supply Engineering", Khanna Publishers.
[T2] Davis and Cornwell, "Introduction to Environmental Engineering", McGraw Hill
[T3] Peavy, Rowe and Tchobanoglous, "Environmental Engineering", McGraw Hill

References:

- [R1] Henry and Heinke, "Environmental Science and Engineering", Prentice Hall India
[R2] Venugopala Rao, "Principles of Environmental Science and Engineering", Prentice Hall India
[R3] Gilbert M. Masters, "Introduction to Environmental Engineering" Prentice Hall India.
[R4] Kiely, Gerardd "Environmental Engineering" Tata McGraw Hill
[R5] Hammer, Hammer "Water and Wastewater Technology" PHI Learning Pvt. Ltd
[R6] Qasim, Motley, Zhu "Water works engineering" PHI Learning Pvt. Ltd.
[R7] C.D.Gupta, V.K.Gupta "Water Supply Handbook" Jain Brothers

2. Structural Analysis

Text Books:

- [T1] G.S. Pandit, "Structural Analysis", CBS Publication.
[T2] Bhavikatti, "Structural Analysis (Vol.I and II)", Vikas Publication
[T3] C.K.Wang, "Statically Indeterminate Structures", Mc Graw Hill

References Books:

- [R1] C.S. Reddy, "Basic Structural Analysis", Tata McGraw Hill
[R2] R.C. Hibbler, "Structural Analysis", Pearson Education
[R3] Schodek, "Structures", Pearson Education
[R4] Vaidyanathan and P Perumal, "Comprehensive Structural Analysis", Laxmi Publications
[R5] Sujit kumar Roy, "Fundamental of Structural Analysis", S. Chand Publication.
[R6] D.S. Prakash Rao, "Structural Analysis", University Press.

3. Hydraulics and Hydraulic Machines

Text Books:

- [T1] Victor Streeter, "Fluid Mechanics", International Edition, Tata McGraw Hill Publications
[T2] R.K.Bansal, "Fluid Mechanics",
[T3] Hughes and Brighton, "Fluid Mechanics", , Tata McGraw Hill

Reference Books:

- [R1] Vijay Gupta, Santosh K Gupta, "Fluid Mechanics and its Application", New Age Publications.
[R2] R.J.Garde, "Fluid Mechanics through Problems", New Age Publications.
[R3] Douglas, Gasiorek, Swaffield and Jack, "Fluid Mechanics", Pearson Education.
[R4] Fay A. James, "Introduction to Fluid Mechanics", PHI Publications
[R5] Kothandaraman and Rudramoorthy, "Fluid Mechanics and Machinery", New Age Publication

4. Advanced Surveying

Text Books:

- [T1] Surveying ,B.C. Purnimia-II/III, Laxmi Publication
[T2] Higher Surveying,A.M. Chandra,New age Publication
[T3] Surveying Vol.2, Duggal, McGraw Hill Education (I) Pvt.Ltd.

Reference Books:

- [R1] Higher surveying. Norman Thomas,
- [R2] Surveying Vol. II, Dr. K.R. Arora, Standard Book House, New Delhi
- [R3] Advanced Surveying: Total Station, GIS and Remote Sensing, Gopi, Pearson Education
- [R4] Surveying, Saikai et al, PHI Publications
- [R5] Surveying, Bannister, Raymond and Baker, Pearson Education

5. Soil Mechanics

Text Books:

- [T1] Basic And Applied Soil Mechanics by Gopal Ranjan and A. S. R. Rao, New age international Ltd
- [T2] Soil Engineering, Alam singh, CBS Publication
- [T3] Geotechnical Engg, Gulati and Dutta, McGrawHill Education (I) Pvt. Ltd

Reference Books:

- [R1] Soil Mechanics and Foundation Engg., Purushothama Raj, Pearson Education
- [R2] Geotechnical Engg, Venkataramaiah, New Age International Publishers
- [R3] GeoTechnical Engineering [Principles and Practices], P. Donald, Coduto, PHI Publications
- [R4] Soil mechanics in engineering practice by Karl Terzaghi, Ralph Brazelton Peck, Gholamreza Mesri, Wiley.
- [R5] Geotechnical engineering: principles and practices of soil mechanics and foundation engineering, by V. N. S. Murthy, Marcel Dekker
- [R6] Soil mechanics by Lambe and Whitman Wiley edition.

6. Design of Concrete Structure

Text Books:

- [T1] Sinha S.N., “ Handbook of Reinforced Concrete Design”, McGraw Hill Publishing Company., New Delhi.
- [T2] Gambhir M.L., “Fundamentals of Reinforced Concrete Design”., PHI Learning (P) Ltd., New Delhi.

Reference Books:

- [R1] Jain A.K., “Limit State Design of Reinforced Concrete Structures”., Nem Chand Publishers, Roorkee.
- [R2] Shetty M.S., “Concrete Technology, Theory and Practice”, S.Chand and Co., New Delhi.
- [R3] Raju K., “Reinforced Concrete”, New Age International (P) Ltd., New Delhi.
- [R4] Varghese P.C., “Limit State Design of Reinforced Concrete”, PHI (P) Ltd., New Delhi
- [R5] SanthaKumar A.R., “Concrete Technology”, Oxford Publications., New Delhi
- [R6] Unnikrishna Pillai S., “Reinforced Concrete Design”., Tata McGraw Hill Publishing Company Ltd., New Delhi.

• 5th Semester

1. Communication Skills for Professionals

Text Books:

- [T1] Anna Dept. Of English. Mindscapes: English for Technologists and Engineers PB. New Delhi: Orient Blackswan.
- [T2] Farhathullah, T. M. Communication Skills for Technical Students. Orient Blackswan, 2002.

References Books:

- [R1] Masters, Ann and Harold R. Wallace. Personal Development for Life and Work, 10th Edition. Cengage Learning India, 2012.
- [R2] Institute of Electrical and Electronics Engineers. IEEE Editorial Style Manual. IEEE, n.d. Web. 9 Sept. 2009.

- [R3] Sethi and Dhamija. A Course in Phonetics and Spoken English. PHI Learning, 1999.
[R4] Khera, Shiv. You Can Win. New York: Macmillan, 2003._

2. Advanced Structural Analysis

Text Books:

- [T1] S. Rajasekaran, "Computational Structural Mechanics", Prentice-Hall India.
[T2] Pandit and Gupta, "Structural Analysis a Matrix Approach" Tata Mc Graw Hill

References:

- [R1] C.K. Wang, "Matrix methods of structural analysis", International Textbook Company.
[R2] Przemieniecki, "Theory of Matrix structural Analysis", Mc Graw Hill.
[R3] Weaver and Gere, "Matrix Analysis of Framed structures", CBS Publishers.
[R4] S.S.Bhavikatti, "Structural Analysis-Vol-2, Vikas Publishing House.
[R5] Devadas Menon, "Structural Analysis", Narosa Publishing
[R6] Structural Analysis, Hibbeler, Pearson Education

3. Design of Steel Structure

Text Books:

- [T1] S.K. Duggal, "Limit State Design of steel structures", Tata Mc Graw Hill
[T2] L.S. Negi, "Design of steel structures", Tata Mc Graw Hill

References

- [R1] N. Subramanian, "Design of steel structures", Oxford University Press.
[R2] Krishnamurthy, "Elementary Structural Design"-Vol-III, CBS Publishers
[R3] Elias G. Abu-Saba, "Design of steel structures", CBS Publication
[R4] John E. Lothers. "Design of steel structures", Prentice-Hall

4. Engineering Hydrology

Text Books:

- [T1] K. Subramanya, "Engineering hydrology", Tata Mc Graw Hill.
[T2] Elementary Engineering Hydrology, Deodhar, Pearson Education

References Books:

- [R1] Chow, Maidment and Mays, "Applied Hydrology", Mc Graw Hill.
[R2] D.K.Todd, "Ground water hydrology", John Wiley India Edition.
[R3] Manning, "Applied Principles of Hydrology", CBS.
[R4] Wurbs, "Water Resource Engineering", Prentice Hall India.
[R5] H. M. Raghunath 2006, Hydrology: Principles, Analysis and Design, New Age International Publisher
[R6] S.K. Garg, "Hydrology and Water Resources Engineering", Khanna Publishers.

5. Geotechnical and Foundation Engineering

Text Books:

- [T1] R. B. Peck and Terzaghi, "Soil Mechanics in Engineering Practice", John Wiley
[T2] V.N.S. Murthy, "Soil Mechanics and Foundation Engineering", CBS

References Books:

- [R1] Shashi K. Gulati and Manoj Datta, "Geotechnical Engineering", Tata Mc Graw Hill [2008].
[R2] Donald P. Coduto, "Geotechnical Engineering", Prentice-Hall India.
[R3] J.E.Bowles, "Foundation Analysis and Design", Mc-Graw Hill
[R4] N.P. Kurian, "Design of foundation Systems, Principles and Practices" Norsa Publisher.
[R5] Braja M. Das, Principles of Foundation Engineering, Cengage Learning
[R6] P.C. Verghese, "Foundation Engineering" PHI Learning Pvt. Ltd.
[R7] Karuna Moy Ghosh, "Foundation Design in Practice" PHI Learning Pvt. Ltd.
[R8] Nihar Ranjan Patra, "Ground Improvement Techniques", Vikas Publishing House Pvt. Ltd.

6. Wastewater Engineering and Reuse

Text Books:

- [T1] S.K.Garg, “Sewage Disposal and Air Pollution Engineering”, Khanna Publishers
[T2] Venugopala Rao, “Principles of Environmental Science and Engineering”, Prentice Hall India

References:

- [R1] Davis and Cornwell, “Introduction to Environmental Engineering”, McGraw Hill
[R2] Peavy, Rowe and Tchobanoglous, “Environmental Engineering”, McGraw Hill
[R3] Amal K. Dutta, “Introduction to Environmental Science and Technology”, Oxford and IBH [R4] Kiely, “Environmental Engineering” Tata McGraw Hill
[R5] Henry and Heinke, “Environmental Science and Engineering”, Prentice Hall India.

• 6th Semester

1. Applications of Remote Sensing and GIS

Text Books:

- [T1] Chang K.T., “Introduction to Geographic Information System”, Tata McGraw Hill Education (P) Ltd.,

- [T2] John R.Jensen, “Remote Sensing of the Environment”, Pearson Education

Reference Books:

- [R1] Clarke K.C., Parks B.O., Crane M.P., “GIS and Environmental Modeling”, PHI Learning (P) Ltd., ND

- [R2] Lillesand T.M. and Kiefer R.W., “Remote Sensing and Image Interpretation”, John Wiley and Sons, NY

- [R3] Lo C.P. and Yeung A.K.W., “Concept and Techniques of Geographic Information Systems”, PHI

- [R4] Chakraborty D. and Sahoo R.N., “Fundamentals of Geographic Information System”, Viva Books, ND.

- [R5] Joseph G., “Fundamentals of Remote Sensing”, University Press (India) Ltd., Hyderabad.

- [R6] L.R.A. Narayan, “Remote Sensing and its Applications”, University Press.

2. Quality Surveying and Cost Estimation

Text Books:

- [T1] B. N. Dutta- Estimating and costing in Civil Engg, UPSPD.

- [T2] M .Chakraborty, “Estimating costing and Specifications in Civil Engg”,

References:

- [R1] D.S.R. [Delhi Schedule Rates] C.P.W.D

- [R2] PWD Account Code

- [R3] Samuelson and Nardhaus-Economics, Mc Graw Hill

- [R4] ‘Text book of Estimating and Costing’ by G.S.Birdie

- [R5] ‘Civil Engineering Building Drawing’ by Gurucharan Singh

3. Open Channel Flow and Numerical Hydraulics

Text Books:

- [T1] K. Subramanya, “Flow in Open Channels”, Tata McGraw Hill

- [T2] G.L. Aswa, “Fluid flow in pipes and Open Channel”, CBS Publication

References:

- [R1] Chow, V.T., “Open Channel Hydraulics”, McGraw Hill Book Company 1959

- [R2] Asawa, G.L., “Flow of Fluids in Pipes and Channels”, CBS Publishers, New Delhi 2007

- [R3] H. K. Versteeg and W. Malalasekera, "An Introduction To Computational Fluid Dynamics: The Finite Volume Method", Longman scientific and technical publishers.
- [R4] John D. Anderson, "Computational Fluid Dynamics: The Basics with an Applications", McGraw- Hill,
- [R5] Vivek V. Ranade, Computational Flow Modeling For Chemical Reactor Engineering, Academic Press, San Diego.

4. Advanced Structural Design

Text Books:

- [T1] N. Krishna Raju, R.N.Pranesh, "Reinforced concrete Design", CBS Publishers
- [T2] P.C.Verghese, "Advance Reinforced concrete Design" PHI Delhi

References:

- [R1] N. Krishna Raju, "Prestressed concrete", Tata McGraw Hill.
- [R2] Arther H. Nilson, "Design of concrete structures", Tata McGraw Hill
- [R3] Arya and Ajamani, "Design of steel structures", Nem Chand and Bros. Publishers
- [R4] C. Syal and A.K. Goel, "Reinforced concrete structures", S. Chand.
- [R5] Prestressed concrete, Pandit and Gupta, CBS
- [R6] T.Y. Lin, Design of Prestressed Concrete Structures, Asia Publishing House, 1955.
- [R7] Edward Nawy, Prestressed Concrete: A fundamental approach, prentice hall, New Jersey
- [R8] BIS 1893 – 2002 and BIS 875 Part III
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Text Books:

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