B Tech CSE 1st Semester

SN	Course Code	Subject Name	Books list
1	BTPH101-18	Mechanics of Solids - civil	1. Engineering Mechanics, 2nd ed. - MK Harbola, Cengage Learning India, 2013. 2. Introduction to Mechanics - MK Verma, CRC Press Book, 2009
	BTPH102-18	Optics and Modern Physics - EE / EEE	1. I. G. Main, —Vibrations and waves in physics‖, Cambridge University Press, 1993. 2. H. J. Pain, —The physics of vibrations and waves‖, Wiley, 2006.
	BTPH103-18	Electromagnetism - ME	1. D. Griffiths, Introduction to Electrodynamics, Pearson Education India; 4th ed. (2015). 2. J D Jackson, Classical Electrodynamics, John Wiley and Sons (1999).
	BTPH104-18	Semiconductor Physics - CSE	1. J. Singh: Semiconductor Optoelectronics: Physics and Technology, McGraw-Hill Inc. (1995). 2. B. E. A. Saleh and M. C. Teich: Fundamentals of Photonics, John Wiley & Sons, Inc., (2007).
2	BTAM101-18	Mathematics-I (Calculus & LinearAlgebra) Civil Engineering)	1. G.B. Thomas and R.L. Finney, Calculus and Analytic geometry, 9th Edition, Pearson, Reprint, 2002. 2. Erwin Kreyszig, Advanced Engineering Mathematics, 9th Edition, John Wiley & Sons, 2006.
	BTAM101-18	Mathematics-I (Calculus & Linear Algebra) (EE / EEE)	1. G.B. Thomas and R.L. Finney, "Calculus and Analytic geometry", Pearson, 2002. 2. T. Veerarajan, "Engineering Mathematics", McGraw-Hill, New Delhi, 2008
	BTAM101-18	Mathematics-I (Calculus & Linear Algebra (ME)	1. G.B. Thomas and R.L. Finney, Calculus and Analytic geometry, 9th Edition, Pearson, Reprint, 2002. 2. Erwin Kreyszig, Advanced Engineering Mathematics, 9th Edition, John Wiley & Sons, 2006.
	BTAM104-18	Mathematics Paper-I (Calculus & Linear Algebra) CSE	1. G.B. Thomas and R.L. Finney, Calculus and Analytic geometry, 9th Edition, Pearson, Reprint,2002. 2. Erwin Kreyszig, Advanced Engineering Mathematics, 9th Edition, John Wiley & Sons, 2006.
4	BTEE101-18	Basic Electrical Engineering	1. B. P. Kothari and I. J. Nagrath, "Basic Electrical Engineering", Tata McGraw Hill, 2010. 2. T.K. Nagsarkar and M.S. Sukhija, "Basic Electrical Engineering", Oxford University Press
6	BTME101-21	Engineering Graphics & Design	1. N. D. Bhat (2006), Engineering Drawing, Charotar Publications, New Delhi. 2. Venugopal (2010), Engineering Drawing and Graphics, 2nd edition, New Age Publications, New Delhi.

B Tech CSE 3rd Semester			
SN	Course Code	Subject Name	Books list
1	BTES 301-18	Digital Electronics	1. D.K. Kaushik, Digital Electronics, January 2005, Publisher: Dhanpat Rai Publishing Company, New Delhi 2. Morris Mano, Digital Design, Prentice Hall of India Pvt. Ltd
2	BTCS 301-18	Data structure & Algorithms	1. "Data Structures with C (Schaum's Outline Series)", Seymour Lipschutz, 1st edition,McGraw Hill Education. 2. Algorithms, Data Structures, and Problem Solving with C++", Illustrated Edition by Mark Allen Weiss, Addison-Wesley Publishing Company.
3	BTCS 302-18	Object Oriented Programming	1. E. Balagurusamy, Object Oriented Programming with C++, Tata McGraw Hill. 2. Stanley B.Lippmann, JoseeLajoie: C++ Primer, 4th Edition, Addison Wesley, 2012
4	BTAM 304-18	Mathematics-III	1. G.B. Thomas and R.L. Finney, Calculus and Analytic geometry, 9 th Edition, Pearson, Reprint, 2002. 2. T. Veerarajan, Engineering Mathematics for first year, Tata McGraw-Hill, New Delhi, 2008.
B Tech CSE 5th Semester			
SN	Course Code	Subject Name	Books list
1	BTES 501-18	Enterprise Resource Planning	1. Alexis Leon, "ERP Demystified", Tata McGraw Hill, New Delhi, 2000 2. Joseph A Brady, Ellen F Monk, Bret Wagner, "Concepts in Enterprise Resource Planning", Thompson Course Technology, USA, 2001.
2	BTCS 501-18	Database Management Systems	1. "Database System Concepts", 6th Edition by Abraham Silberschatz, Henry F. Korth, S. Sudarshan, McGraw-Hill 2. "Principles of Database and Knowledge–Base Systems", Vol1 by J. D. Ullman, Computer Science Press.
3	BTCS 502-18	Formal Language & Automata Theory	1. John E. Hopcroft, Rajeev Motwani and Jeffrey D. Ullman, Introduction to Automata Theory, Languages, and Computation, Pearson Education Asia. 2. Harry R. Lewis and Christos H. Papadimitriou, Elements of the Theory of Computation, Pearson Education Asia
4	BTCS 503-18	Software Engineering	1. Roger Pressman, "Software Engineering: A Practitioners Approach,(6th Edition), McGraw Hill, 1997. 2. Sommerville, "Software Engineering, 7th edition", Adison Wesley, 1996
5	BTCS 504-18	Computer Networks	1. Data Communication and Networking, 4th Edition, Behrouz A. Forouzan, McGraw-Hill. 2. Data and Computer Communication, 8th Edition, William Stallings, Pearson PrenticeHall India.

| 6 | BTCS 520-18 | Web Technologies (Elective-I) | 1. Jeffrey C. Jackson, "Web Technologies: A Computer Science Perspective",PearsonEducation
2. Rajkamal, "Internet and Web Technology", Tata McGraw Hill |

B Tech CSE 7th Semester

SN	Course Code	Subject Name	Books list
1	BTCS 701-18	Network Security and Cryptography	1. Cryptography And Network Security Principles And Practice Fourth Edition, William Stallings, Pearson Education 2. Modern Cryptography: Theory and Practice, by Wenbo Mao, Prentice Hall PTR
2	BTCS 702-18	Data Mining and Data Warehousing	1. Parteek Bhatia, Data Mining and Data Warehousing: Principles and Practical Techniques, Cambridge University Press 2. Carlo Vercellis, Business Intelligence: Data mining and Optimization for Decision Making, WILEY
3	OEE-104-18	Renewable Energy Sources (Open Elective-II) Electrical Engineering	1. Reneweble energy resources: Tiwari and ghosal, Narosa publication. 2. Non conventional Energy Sources,Khanna Publication
4	BTCS 706-18	Distributed databases (Elective IV)	1. Chhanda Ray, Ray, Distributed Database Systems, Pearson Education India, 2009 2. Principles of Distributed Database Systems, M.T. Ozsu and P. Valduriez, Prentice-Hall, 1991.
5	BTCS 714-18	Parallel Computing (Elective V)	1. Introduction to Parallel Computing, Niranjan N. Chiplunkar, Raju K. 2. M. J. Quinn. Parallel Computing: Theory and Practice , McGraw Hill, New York, 1994