Recommended Books

- ## 1st Semester

1**. Mathematics-1**

TEXT BOOKS:

[T1]Kresyig E., "Advanced Engineering Mathematics", 5th Edition, John Wiley & Sons,1999.

[T2]Babu Ram, "Engineering Mathematics", Pearson Education.

 [T3]Apostol Tom M, Calculus, Vol I and II John Wiley (2003).

REFERENCE BOOKS:

[R1]B.S. Grewal, "Elementary Engineering Mathematics", 34th Ed., 1998.

 [R2]H.K. Dass, "Advanced Engineering Mathematics", S. Chand & Company, 9th Revised Edition, 2001.

 [R3]Shanti Narayan, "Differential Calculas", S.Chand & Company, 1998.

2. **Technical Communication**

TEXTBOOKS:

[T1] Kavita Tyagi and Padma Misra , "Advanced Technical Communication", PHI, 2011

[T2] P.D.Chaturvedi and Mukesh Chaturvedi, "Business Communication –Concepts, Cases and Applications", Pearson, second edition.

[T3] Rayudu, "C.S-Communication", Himalaya Publishing House, 1994.

[T4] Asha Kaul , "Business Communication", PHI, second edition.

REFERENCES:

[R1] Raymond Murphy, "Essential English Grammar-A self study reference and practice book for elementary students of English" , Cambridge University Press, second edition.

 [R2] Manalo, E. & Fermin, V. (2007). Technical and Report Writing. ECC Graphics. Quezon City.

[R3] Kavita Tyagi and Padma Misra , "Basic Technical Communication", PHI, 2011.

[R4] Herta A Murphy, Herbert W Hildebrandt and Jane P Thomas, "Effective Business Communication", McGraw Hill, seventh edition.

3. **Introduction to Programming Language in C**

TEXTBOOKS:

[T1]Ashok N. Kamthane, "Computer Basics and C Programming", Pearson Education.

[T2]E. BalaGuruswamy, "Programming in ANSI C", 2008.

[T3]V Rajaraman, "Computer Basics and C Programming", PHI.

REFERENCES:

[R1]Herbert Schildt, "C The Complete Reference" Fourth Edition, 2000.

 [R2]Yashwant Kanetkar, "Let us C" eighth edition, 2002.

[R3]Kernighan and d. Ritchie, "The ANSI C Programming Language", 2000.

 [R4]Stephenn Prata, "C Primer Plus" Fourth Edition, 2001.

[R5]Schaum's Outline Series, "Programming with C", 2nd Edition, 1996.

4**. Introduction to Computers and IT**

TEXT BOOKS

[T1]P. K. Sinha & Priti Sinha , "Computer Fundamentals", BPB Publications, 1992.

[T2] Anita Goel "Computer Fundamentals", Pearson.

REFERENCE BOOKS

 [R1]B.Ram Computer fundamentals Architecture and Organization,New Age Intl.

[R2]Alex Leon & Mathews Leon, "Introduction to Computers", Vikas Publishing .

[R3]Norton Peter, "Introduction to computers", 4th Ed., TMH, 2001.

[R4]Vikas Gupta, "Comdex Computer Kit", Wiley Dreamtech, Delhi, 2004.

5. **Physics**

TEXTBOOKS:

[T1]: S.K. Gupta, "Modern ABC of Physics", Vol1, Modern Publishers.

[T2]: Pradeep, "Fundamental Physics", Class XI, Pradeep Publications.

[T3]: S.K. Gupta, "Modern ABC of Physics", Vol2, Modern Publishers.

[T4]: Pradeep, "Fundamental Physics", Class XII, Pradeep Publications.

• 2nd Semester

1. **Mathematics-2**

TEXT BOOKS:

[T1]Rosen, K.H., Discrete Mathematics and its Applications, McGraw Hill, (2006) 6th ed.

[T2]Kolman, Busby and Ross, "Discrete Mathematical Structure", PHI, 1996.

[T3]Babu Ram, "Discrete Mathematics", Pearson Education

REFERENCE BOOKS:

[T1]S.K. Sarkar, "Discrete Maths"; S. Chand & Co., 2000.

[T2]Tremblay, J.P. and Manohar, R., Discrete Mathematical Structures with Applications to Computer Science, Tata McGraw Hill, (2007).

2. **Principles of Management**

TEXT BOOKS

[T1] Dr. C.B Gupta "Management concepts & practices" S.Chand & Sons, 2009.

REFERENCE BOOKS

[R1] Stoner,Freeman & Gilbert, "Management" 6th Edition, Pearson International.

[R2] Ankur Chhabra, "Organisational Behaviour", Sun India Publications, 2009 [R3]   Robbins, Stephen P, "Organisational Behaviour". PHI, 2010.

3. **Digital Electronics**

TEXT BOOKS

[T1]. Moris Mano, "Digital Logic and Computer Design", PHI Publications, 2002.

[T2]. Raj Kamal, "Digital Systems " , Principles and Design, Pearson ,2011.

[T3]. R. P. Jain, "Modern Digital Electronics", TMH, 3rd Edition, 2003.

REFERENCES:

[R1]. R.L.Tokheim, "Digital Electronics, Principles and Applications", Tata McGraw Hill, 1999.

[R2]. W.Gothman, "Digital electronics", PHI.

[R3].S.Salivahanan & S. Arivyhgan. "Digital circuits and design", Vikas Publication, 2001.

[R4]. Malvino Leach, "Digital Principles and Application", TMH, 1999.

4. **Data Structures Using C**

TEXT BOOKS

[T1]. Moris Mano, "Digital Logic and Computer Design", PHI Publications, 2002.

[T2]. Raj Kamal, "Digital Systems " , Principles and Design, Pearson ,2011. [T3]. R. P. Jain, "Modern Digital Electronics", TMH, 3rd Edition, 2003.

REFERENCES:

[R1]. R.L.Tokheim, "Digital Electronics, Principles and Applications", Tata McGraw Hill, 1999.

[R2]. W.Gothman, "Digital electronics", PHI.

[R3].S.Salivahanan & S. Arivyhgan. "Digital circuits and design", Vikas Publication, 2001.

[R4]. Malvino Leach, "Digital Principles and Application", TMH, 1999.

5. **Database Management System**

TEXT BOOKS:

[T1] R. Elmarsi and SB Navathe, "Fundamentals of Database Systems", Pearson,5th Ed.
[T2] Singh S.K., "Database System Concepts, design and application", Pearson Education
[T3] Ramakrishnan and Gherke, "Database Management Systems", TMH.
REFERENCE BOOKS:
[R1]Abraham Silberschatz, Henry Korth, S. Sudarshan, "Database Systems Concepts", 4th Edition, McGraw Hill, 1997.
 [R2]Jim Melton, Alan Simon, "Understanding the new SQL: A complete Guide", Morgan Kaufmann Publishers, 1993.
 [R3]A. K. Majumdar, P. Battacharya, "Data Base Management Systems', TMH, 1996.
[R4]Bipin Desai, "An Introduction to database Systems", Galgotia Publications, 1991.

• 3rd Semester

1. Mathematics –III
TEXT BOOKS
 [T1]Sharma, J.K.; Operations Research: problems & solutions; Macmillan India
 [T2]Gupta, S.P. and Gupta, P.K.; Quantitative Techniques and Operations   Research, Sultan Chand & Sons
[T3]Vohra, N.D.; Quantitative Techniques in Management 2003.
 [T4]Gupta, S.P. Statistical Methods, Sultan Chand &Sons.2004
[T5]A. M. Natarajan, P Balasubramani A. Tamilarasi, Operations Research, Pearson 2005
REFERENCE BOOKS
[R1]R.L.Rardin, Optimization in Operations Research, Prentice Hall.
[R2]A.Racindran, D.T.Phillips, J.S.Solberg, Second edition, John Wiley.

2.Computer Architecture
TEXT BOOKS :
 [T1]. Morris Mano, Computer System Architecture, 3rd Edition, Prentice-Hall of India Private Limited, 1999.
REFERENCE BOOKS:
[R1]. WIliam Stallings, Computer Organization and Architecture, 4th Edition, Prentice Hall of India Private Limited, 2001
 [R2]. Subrata Ghosal," Computer Architecture and Organization" , Pearson 2011
[R3]. Malvino, "Digital Computer Electronics: An Introduction to Microcomputers", McGraw Hill.

3. Front End Design Tool VB.Net
TEXT BOOKS
[T1]Visual Basic 2010 programming Black Book, by Kogent Learning Solutions, Wiley India
[T2]Visual Basic 2010 Step By Step, Michael Halvorson, PHI .
REFERENCE BOOKS
[R1]Mastering Microsoft Visual Basic 2010, Evangelos Petroutsos, Wiley Publications
[R2]Beginning Visual Basic 2010 (Wrox).

4. Principles of Accounting
TEXT BOOKS
 [T1] Maheshwari, S.N. and Maheshwari, S. K., (2009) An Introduction to Accountancy, Eighth Edition, Vikas Publishing House.
[T2] Tulsian, P.C., (2009) Financial Accountancy, 2nd edition, Pearson Education.
REFERENCE BOOKS
 [R1] Gupta R. L., & Gupta V.K., "Principles & Practice of Accounting", Sultan Chand & Sons, 1999.
[R2] Monga J R, "Introduction to Financial Accounting", Mayur Paperbacks, 2010.

[R3]   Raja Sekaran/Lalitha, "Financial Accounting", Pearsons .

5. Object Oriented Programming using C++
TEXT BOOKS
 [T1] Ashok N. Kamthane, "Object-Oriented Programming With Ansi And Turbo C++", Pearson Education.
[T2] A.R.Venugopal, Rajkumar, T. Ravishanker "Mastering C++", TMH, 1997.
[T3]E. Balguruswamy, "C++ ", TMH Publication ISBN 0-07-462038-x.
REFERENCE BOOKS
 [R1]Mahesh Bhave, "Object Oriented Programming with C++", Pearson Education.
[R2] D . Parasons, "Object Oriented Programming with C++", BPB Publication.
[R3]Steven C. Lawlor, "The Art of Programming Computer Science with C++", Vikas Publication.
 [R4] Schildt Herbert, "C++: The Complete Reference", 4th Ed., Tata McGraw Hill, 1999.
[R5]R. Lafore, "Object Oriented Programming using C++", Galgotia Publications, 2004.

• 4th Semester

1. Mathematics –IV
TEXT BOOKS:
[T1]S.S. Sastry, " Numerical Analysis"; Prentice Hall of India, 1998.
[T2]Meyer, P.L.. Introductory Probability and Statistical Applications, Oxford (1970) 2nd ed.
[T3]Johnson, R., Miller, I. and Freunds, J., Miller and Freund's"Probability and Statistics for Engineers, Pearson Education(2005) 7th ed.
REFERENCE BOOKS:
[R1]Mathew, J.H., Numerical Methods for Mathematics, Science and Engineering, Prentice Hall Inc.J (2002).
[R2]Walpole, Ronald E., Myers, Raymond H., Myers, Sharon L. and, Keying Ye, Probability and Statistics for Engineers and Scientists, Pearson Education (2007) 8th ed.

2. Basic Programming Concepts
TEXT BOOKS
[T1]The complete reference HTML, by Thomas A powell, TMH publication.
 [T2]Mastering HTML 4.0 by Deborah S. Ray and Erich J. Ray. BPB Publication.
[T3] Internet and World Wide Web Deitel HM, Deitel ,Goldberg , Third Edition
REFERNCES
[R1]HTML Black Book , Stephen Holzner, Wiley Dreamtech.
[R2]Rajkamal, "Web Technology", Tata McGraw-Hill, 2001.
[R3]Jeffrey C. Jackson, "Web Technologies : A Computer Science Perspective", Pearson.
[R4]XML How to Program by Deitel Deitel Nieto.

3. Java Programming
TEXT BOOKS:
 [T1]Patrick Naughton and Herbert Schildt, "Java-2 The Complete Reference", TMH.
[T2]Y. Daniel Liang, "Introduction to Java Programming, Comprehensive Version, 7/e" Pearson.
REFERENCE BOOKS:
[R1]Krishnamoorthy R, Prabhu S,"Internet and Java Programming", New Age Intl.
[R2]David Flanagan, Jim Farley, William Crawford and Kris Magnusson, "Java Enterprise in a Nutshell", O'Reilly.

4. Software Engineering
TEXT BOOKS:

[T1]Patrick Naughton and Herbert Schildt, "Java-2 The Complete Reference", TMH.
[T2]Y. Daniel Liang, "Introduction to Java Programming, Comprehensive Version, 7/e" Pearson.
REFERENCE BOOKS:
[R1]Krishnamoorthy R, Prabhu S,"Internet and Java Programming", New Age Intl.
[R2]David Flanagan, Jim Farley, William Crawford and Kris Magnusson, "Java Enterprise in a Nutshell", O'Reilly.

5. **Computer Networks**
Text Books
T[1]. A. S. Tenanbaum, "Computer Networks"; Pearson Education Asia, 4th Ed., 2003.
T[2]. Behrouz A. Forouzan, "Data Communication and Networking", 2nd edition, Tata Mc Graw Hill. .
Reference Books
R[1]. D. E. Comer, "Internetworking with TCP/IP", Pearson Education Asia, 2001.
R[2]. William Stallings, "Data and computer communications", Pearson education Asia, 7th Ed., 2002.

6. **Operating System**
TEXT:
[T1] Silbersachatz and Galvin, "Operating System Concepts", John Wiley & Sons,7th Ed.2005
[T2] Haldar/Aravind, "Operating System", Pearson Edu.
REFERENCES:
[R1] Madnick E., Donovan J., "Operating Systems", Tata McGraw Hill, 2001
[R2]Tannenbaum, "Operating Systems", PHI, 4th Edition, 2000
[R3]An Introduction to Operating Systems: Concepts & Practice, Bhatt, PHI

- **5th Semester**

1. **Computer Graphics**
TEXT BOOKS:
[T1] Foley, Van Dam, Feiner, Hughes, Computer Graphics Principles & Practice, 2000, Pearson
[T2] Chennakesava R. Alavla "Computer Graphics", PHI Learning Pvt. Limited
REFERENCES BOOKS:
[R1] D. Hearn & Baker: Computer Graphics with OpenGL, Pearson Education, Third Edition, 2009.
[R2] Foley, J.D. & Van Dam, A: Fundamentals of Interactive Computer Graphics.
[R3] Rogers & Adams, "Mathematical Elements for Computer Graphics", McGraw Hill, 1989.

2. **E-Commerce**
TEXT BOOKS:
[T1]e-commerce: Strategy, Technologies and Applications, David Whiteley, Tata McGraw Hill
[T2]E-Commerce: The Cutting Edge of Business, KK Bajaj & Debjani Nag, McGraw Hill.
REFERENCES:
[R1]The Complete Reference: Internet, Margaret Levine Young, Tata McGraw Hill.
[R2]e-Commerce: Concepts, Models, Strategies, CSV Murthy, Himalayas Publishing House.
[R3]Frontiers of Electronic Commerce, Ravi Kalakota & Andrew B. Wilson, Addison-Wesley (An Imprint of Pearson Education)
[R4]Network Security Essentials: Applications & Standards, William Stallings, Pearson Education.

3. **Software Testing**
TEXTBOOKS:
[T1]Paul C. Jorgensen, "Software Testing-A Craftsman's Approach", Second Edition, CRC Press, 2008
[T2]Glenford Myers, "The Art of Software Testing", John Wiley & Sons Inc., New York, 1979.
REFERENCES:

[R1]Paul Ammann and Jeff Offutt, Introduction to Software Testing, Cambridge University Press, Cambridge, UK, ISBN 0-52188-038-1, 2008.

[R2]Mauro Pezze,Michal Young, "Software Testing and Analysis: Process, Principles and Techniques",Wiley India , 2008

[R3]. William Perry, "Effective Methods for Software Testing", John Wiley & Sons, New York, 1995.

[R4]. Cem Kaner, Jack Falk, Nguyen Quoc, "Testing Computer Software", Second Edition, Van NostrandReinhold, New York, 1993.

[R5]. Boris Beizer, "Software Testing Techniques", Second Volume, Second Edition, Van Nostrand Reinhold, New York, 1990.

[R6]. Louise Tamres, "Software Testing", Pearson Education Asia, 2002

[R7]. Roger S. Pressman, "Software Engineering–A Practitioner's Approach", Fifth Edition, McGraw-Hill International Edition, New Delhi, 2001.

[R8]. K.K. Aggarwal & Yogesh Singh, "Software Engineering", New Age International Publishers, New Delhi, 2003.

4. Microprocessor

TEXT BOOKS:

[T1]Microprocessor Architecture, Programming & Application with 8085, Gaonkar, Penram Int. publication 2000.

[T2]. Lyla B. Das," The X86 Microprocessors" ,Pearson 2011

REFERENCE BOOK:

[R1]. Y.-C. Liu and G. A. Gibson, "Microprocessor Systems: The 8086/8088 family Architecture, Programming & Design", PHI, 2000.

[R2]4. A. K. Ray and K M Bhurchandi, "Advanced Microprocessors and Peripherals", TMH, 2000.

[R3]D.V. Hall, "Microprocessors and Interfacing", TMH, 2nd Ed. 1991.

5. Advance Computer Networks

TEXT BOOKS:

[T1] Computer Networks, Fifth Edition: A Systems Approach (The Morgan Kauf Man Series).

REFERENCE BOOKS:

[R1] Computer Networking: A Top Down Approach (Fifth Edition), James F. Kurose.

[R2] W. Stallings, Networks Security Essentials: Application & Standards, Pearson Education, 2000.

6. Web Based Programming(PHP)

TEXT BOOKS:

[T1]Programming PHP. Rasmus Lerdorf, Kevin Tatroe. (O'Reilly, ISBN 1565926102). [T2]PHP,MySQL, andJavaScript: A Step-By-Step Guide to Creating Dynamic Websites by Robin Nixon O'Reilly Media; 1 edition

REFERNCE BOOKS:

[R1]Core PHP Programming. Leon Atkinson (Prentice Hall, ISBN 0130463469).

[R2]Beginning PHP5 and MySQL: From Novice to Professional, W. Jason Gilmore, 2004, Apress, ISBN: 1-893115-51-8

7. Business Economics

TEXT BOOKS:

[T1] Ahuja H.L., "Business Economics", S. Chand & Co., New Delhi, 2001

[T2] Karl E. Case & Ray C. Fair, "Principles of Economics", Pearson Education, Asia, 2000

[T3] Ferfuson P.R., Rothschild, R and Ferguson G.J. "Business Economics", Mac-Millan, Hampshire, 1993.

[T4] D N Dwivedi, "Micro Economics", 2nd edition, Pearsons

[T5] Nellis, Joseph, Parker David, "The Essence of Business Economics", Prentice Hall, New Delhi, 1992.

- ## 6th Semester

1. Data Warehousing and Data Mining
TEXT BOOKS:
[T1]Kamber and Han, "Data Mining Concepts and Techniques", Hartcourt India P. Ltd.,2001.
[T2]Paul Raj Poonia, "Fundamentals of Data Warehousing", John Wiley & Sons, 2003.
REFERENCE BOOKS:
[R1]Margaret Dunham, " Data Mining: Introductory and Advanced Topics, 1/e", Pearson
[R2]G. K. Gupta, "Introduction to Data Mining with Case Studies", PHI, 2006.
[R3]W. H. Inmon, "Building the Operational Data Store",2nd Ed., John Wiley, 1999
[R4]B. M. Shawkat Ali, Saleh A. Wasimi, "Data Mining Methods and Techniques", Cengage Learning, 2009

2. Mobile Computing
TEXT BOOKS
[T1] Jochen Schiller, "Mobile Communications", PHI/Pearson Education, Second Edition, 2003.
 [T2] Sandeep Singhal, "The Wireless Application Protocol, Writing Applications for Mobile Internet", Pearson Education, 2000
[T3] Learning WML, and WMLScript, Programming the Wireless Web, Martin Frost, Publisher: O'Reilly 2000
REFERENCE BOOKS
[R1]William Stallings, "Wireless Communications and Networks", PHI/Pearson Education, 2002
[R2]Theodore S Rappaport, "Wireless Communication Principles and Practice", 2nd Ed, Pearson Education. 2002
[R3]C. Y. Lee and William, "Mobile Cellular Telecommunications", 2nd Ed, McGraw Hill. 2001

3. Linux Environment
TEXT BOOKS:
[T1] Sumitabha Das, "Unix Concepts and Application", TMH
[T2] Robert Love,"Linux Kernel Development", Pearson Education
[T3] Sumitabha Das, "Your Unix The Ultimate Guide", TMH
REFERENCE BOOKS:
[R1]Sivaselvan, Gopalan, "A Beginner's Guide to UNIX", PHI Learning
[R2]The Unix Programming Environment by Brian W. Kernighan and Rob Pike,PHI
[R3]Understanding the Linux Kernel Daniel P. Bovet; Marco Cesati, O'Reilly Media, Inc. 2005

4. Multimedia and its Applications
TEXTBOOKS:
[T1]Tay Vaughan, "Multimedia: Making it work", TMH, 1999.
[T2]Ralf Steinmetz and Klara Naharstedt, "Multimedia: Computing, Communications Applications",Pearson, 2001.
REFERENCES:
[R1] Keyes, "Multimedia Handbook", TMH, 2000.
[R2] Steve Heath, "Multimedia & Communication Systems", Focal Press, UK, 1999.
[R3] K. Andleigh and K. Thakkar, "Multimedia System Design", PHI, PTR, 2000.
[R4] Steve Rimmer, "Advanced Multimedia Programming", MHI, 2000.

5. **BioInformatics**

TEXTBOOKS

[T1]T K Attwood, D J parry-Smith, Introduction to Bioinformatics, Pearson Education, 1st Edition, 11th Reprint 2005.

[T2]S. Ignacimuthu, S.J., Basic Bioinformatics, Narosa Publishing House, 1995.

[T3]Neil C. Jones and Pavel A. Pevzner, An Introduction to Bioinformatics Algorithms, MIT Press, First Indian Reprint 2005.

[T4]Harshawardhan P BAL, Perl Programming for Bioinformatics, Tata McGraw Hill, 2003.

REFERENCES BOOKS:

[R1]Stephen A. Krawetz, David D. Womble, Introduction To Bioinformatics A Theoretical and Practical Approach, Humana Press, 2003.

[R2]Hooman H. Rashidi, Lukas K. Buehler, Bioinformatics Basics-Applications in Biological Science and Medicine, CRC press, 2005.

[R3]C S V Murthy, Bioinformatics, Himalaya Publishing House, 1st Edition 2003.

[R4]ary Benson Roderic page (Eds), Algorithms in Bioinformatics, Springer International Edition, First Indian Reprint 2004.

[R5]James Tisdall, Mastering Perl for Bioinformatics, O'Reilly, 2003.

6. **Artificial Intelligence**

TEXTBOOKS:

[T1]E. Rich and K. Knight, "Artificial intelligence", TMH, 2nd ed., 1999.

REFERENCE:

[R1]D.W. Patterson, "Introduction to AI and Expert Systems", PHI, 1999

[R2]Nils J Nilsson,"Artificial Intelligence -A new Synthesis" 2nd Edition (2000), Harcourt Asia Ltd.

7. **Computer Network and Information Security**

TEXTBOOKS:

[T1] W. Stallings, Networks Security Essentials: Application & Standards, Pearson Education, 2000

[T2] TCP/IP Protocol Suite , Behrouz A. Forouzan, "Data Communication and Networking", Tata Mc Graw Hill,

REFERENCE BOOKS:

[R1] W. Stallings, Cryptography and Network Security, Principles and Practice, Pearson Education, 2000.

8. **Network Programming**

TEXT BOOKS:

[T1] UNIX Network Programming, Vol. I, Sockets API, 2nd Edition.-W.Richard Stevens, Pearson Edn. Asia.

[T2] UNIX Network Programming, 1st Edition, -W.Richard Stevens. PHI.

REFERENCES:

[R1] UNIX Systems Programming using C++,T CHAN, PHI.

[R2] UNIX for Programmers and Users, 3rd Edition Graham GLASS, King abls, Pearson Education

[R3] Advanced UNIX Programming 2nd Edition M. J. ROCHKIND, Pearson Education.