

**List Of Books Needed For The Introduction Of
PGDCA, M.Sc.(Computer Science) And MCA Course
Through Distance Mode**

PGDCA- First semester

MS -01: Introduction to Information technology

- 15/6
1. J.B.Dixit, "Fundamental of Computer & Programing in C", Luxmi Publication.
 2. ITL ESL, "Introduction to Computer Science", Pearson Education.
 3. E. Balagurswami, " Object Oriented Programming using C++", TMH.
 4. B.Ram, "Fundamental of Computer ", New Age International (P) Ltd.
 5. Nortorn, " Fundamental of Computer", TMH.

MS-02: Computer Programming for Problem Solving

1. E.Balagurswamy,"Introduction to C", TMH.
2. Kernighan, B.W.,and Ritchie, D.M.,"The C Programming Language", PHI.
3. Jeri, Hanly, " Problem Solving and Program Design in C", Addison Wesley, 2000.
4. Kanetker, "Let us C", BPB Publications.
5. Gottfried, "Programming with C", TMH.
6. Dharminder Kumar and Varun Kumar, "Computer Programming and Problem Solving Through C", Excel Publisher, Delhi.

MS-03: Digital Electronics.

1. Jain, "Modern Digital Electronics", TMH.
2. Schilling, "Digital Integrated Electronic", Mc Graw Hill.
3. Ghoshal and et. Al., " Digital Electronics" Galgotia Booksource, Delhi.
4. Malvino & Leach, "Digital Principles and Applications:, McGraw Hill.
5. Morris Mano, "Digital Design", PHI.

MS-04: System Analysis and Design

1. Lee, "System Analysis and Design, Vol I&II", Galgotia Publication.
2. Awadh, "System Analysis and Design", Galgotia Booksource.
3. Hoffer, " Modern System Analysis & Design", Addison-Wesley.
4. Gore, "Elements of System Analysis", Galgotia Booksource.
5. Goodman, S.E. & Hedetnieni, "Introduction to Design and Analysis of Algorithm", 1997, MGH.
6. Jean Paul Trembley, Richard B.Bunt, "Introduction to Computers Science- An algorithms approach", 2002, TMH.
7. Knuth, D.E., "Fundamentals of Algorithms: The Art of Computer Programming", Vol I, 1985. Naresh Publ.

GDCA- Second semester

MS-05: Data Structure and Algorithms.

1. Yedidyah Langsam, Moshe J. Auegenstein, Auromn. Tenenebaum, "Data Structure Using C & C++".
2. Sartaj Sahani, "Data Structure using C", Galgotia Publication Pvt. Ltd.
3. LIPSCHUTZ, "Data Structure", TMH.
4. Aho, "Data Structures and Algorithms", Pearson Education.
5. Bandyopadhyoy, "Data Structure using C", Pearson Education.
6. Salaria, "Data Structures and Algorithms", Khanna Book Publishing Co. (P) Ltd.
7. A.V. Aho, J.E. Hopcroft and T.D. Ullman, "Data Structures and Algorithms", Addison-Wesley 1999, Low Priced Edition.
8. Robert Kruse, "Data Structures and Program Design in C", PHI,
9. Jr. Seymour Lipschetz, "Theory & Problems of Data Structures", Schaum's outline by TMH.
10. Jean Paul Tremblay, Richard B. Bunt, "Introduction to Computers Science -An algorithms Approach", 2002, TMH.
11. Willam J. Collins, "Data Structure and the Standard Template library", 2003, TMH.

MS-07: Computer Organization and Architecture

1. J.P.Hayes, "Computer Organization & Architecture" Mc Graw Hill.
2. Manon.M, "Computer System and Architecture" Pearson Education.
3. Rajaraman, "An Introduction to Digital Computer Design", PHI.
4. Heuring, "Computer System Design and Architecture", Addison Wesley.
5. Govindarajalu, "Computer Architecture and Organization", TMH.
6. Nicholas Carter, "Computer Architecture", 2002, TMH.

MS-08: Operating System

1. Galvin, "Operating System Concept", John Willey & Sons.
2. Stalling, "Operating Systems", PHI.
3. Donovan, "Operating Systems", McGraw Hill.
4. Milenkovic, "Operating Systems", TMH.
5. Deitel, "Operating Systems", Pearson Education.
6. A. Tanenbaum, "Modern Operating Systems", 1992, Prentice-Hall.
7. Peterson, "Operating System", 1985, AW.
8. Mandrik & Donovan, "Operating Systems", TMH.

MS-09: Business Data Processing

1. Sten & Sten, "COBOL Programing", McGraw Hill.
2. Roy and Dastidar, "COBOL Programming", TMH.
3. Sarda, NL, "COBOL Programming".
4. V. Rajaraman, "COBOL Programming".

A.Sc(Computer Science)- Third semester

MS-11: Relational Data Base Management System

1. Ramez Elmasri, Shamkant B.Nawthe, "Fundamental of Data Base System", Pearson Education
2. C.J. Date, "Data Base System", Pearson Education.
3. Silberschatz, "Data Base System Concepts", McGraw Hill.
4. Rama Krishnan, "Data Base Management Systems", McGraw Hill.
5. Connolly, "Database Systems", Pearson Education.
6. Loomis, "Data Management & File Structure", 1989, PHI.
7. Bipin Desai, "Introduction to Database Management System", 1991, Galgotia Pub.
8. R. Elmasri and S.B. Navathe, "Fundamentals of Database Systems", 3rd edition, 2000, Addison-Wesley, Low Priced Edition.

MS-12: Software Engineering

1. Pressman, "Software Engineering-A Practioner Approach", McGraw Hill.
2. Agarwal, "Software Engineering", New Age International Pub.
3. Jalota, "An Integrated Approach to Software Engineering", Narosa Pub.
4. GHEZZI, "Fundamental of Software Engineering", PHI.
5. Sommerville, "Software Engineering", Pearson Education.
6. David Gustafson, "Software Engineering", 2002, TMH.
7. Ali Behforooz and Frederick J. Hudson "Software Engineering Fundamentals", Oxford University, 1995, JW&S.

MS-13: Computer Graphics

1. Plastock, "Computer Graphics, Schaum's series, McGraw Hill.
2. Newman, "Principles of Interactive Graphics", McGraw Hill.
3. N. Krishnamurthy, "Introduction to Computer Graphics", TMH.
4. Foley, "Computer Graphics", Pearson Education.
5. Baker, "Computer Graphics", Pearson Education.
6. James D. Foley, Andeies van Dam, Stevan K. Feiner and Johb F. Hughes, "Computer Graphics Principle and Practices", Second edition, 2000, Addison Wesley.
7. Donald Hearn and M.Pauline Baker, "Computer Graphics", 2nd Edition, 1999, PHI.
8. Corrign John, "Computer Graphics Secrets and Solutions", 1994, BPV.
9. Alan Watt, "Fundamentals of 3Dimensional Computer Graphics", 1999, Addison Wesley.
10. David F. Rogers, "Procedural Elements for Computer Graphics", 2001, T.M.H Second Edition.

MS-14: Management Information System

1. Robert G. Mudrick, Jeol E.Ross, James R Claggett, "Information System for Modern Management".
2. James A.O'Brien, "Management Information System".
3. Banerjii & Sachdeva(Vikas Pub.).
4. Dharminder Kumar and Sangeeta Gupta, "Management Information Systems: A computer oriented approach for business operations", Excel Publisher, New Delhi.

5. W. S. Jawadekar, "Management Information System", 2002, Tata McGraw Hill.
6. Davis Olson "Management Information System", Mac Graw Hill.
7. "Information System; a Management Perspective", Alter Addison Wesley.
8. "Introduction to Information System", McGraw Hill.

M.Sc(Computer Sc.)- Fourth semester

MS-16: Computer Networks

1. Tanenbaum, A.S., "Computer Networks", Pearson Education.
2. Forouzan, "Data Communication & Networking", TMH.
3. Stallings, W. "Computer Communication Networks", Prentice Hall Of India.
4. Godbole, "Computer Networking", Pearson Education.
5. Black, "Computer Networks", PHI.
6. Halsall Fred, "Data Communications, Computer Networks and Open Systems", 4th edition, 2000, Addison Wesley, Low Price Edition.
7. Fitzgerald Jerry, "Business Data Communications".
8. Larry L. Peterson & Bruce S. Davie, "Computer Networks – A System Approach", 2nd Edition.
9. ED Tittel, "Computer Networking", 2002, TMH.

MS-17: Object Oriented Programming using C++

1. E. Balagurwami, "Object Oriented Programming Using C++", TMH.
2. Laffore, "Object Oriented Programming", Galgotia Publication.
3. Schildt, "C++: The Complete Reference", TMH
4. Stroustrup, "The C++ Programming Language", Addison-Wesley.
5. Rumbaugh, "Object-Oriented Modelling and Design", PHI.
6. H M Deitel and P J Deitel, "C++ How to Program", 1998, Prentice Hall.
7. Robert Lafore, "Object Oriented Programming in Turbo C++", 1994, The WAITE Group Press.
8. D Ravichandran, "Programming with C++", 2003, TMH.
9. E Balagurusamy, "Object oriented Programming with C++", 2001, Tata McGraw-Hill.
10. Horstmann, "Computing Concepts with C++ Essentials", 2003, John Wiley,

MS-18: Internet and Web Programming

1. Kris Jamsa, "Web Programming", Frank Bros. & Co.
2. Ned Snell, "Teach Yourself Internet", Techmedia.
3. E. Balagurwamy, "Programming with JAVA", TMH.
4. Raymond Greenlaw and Ellen Hepp, "Fundamentals of the Internet and the World Wide Web", 2001, TMH .
5. Deitel, Deitel & Nieto, "Internet & World Wide Programming", 2000, Pearson Education.
6. Duane A. Bailey , Duane W. Bailey, "Java Elements – Principles of Programming in Java", 2000, T.M.H
7. Patrick Naughton, "The Java Handbook", TMH.

MS-19: Computer Based Optimisation Methods

1. V.K. Kapoor, "Operational Research".
2. S.D. Shrama, "Operational Research", Kedar Nath and Ram Nath, Meerut.
3. Gupta P.K., "Operation Research", Sultan Chand & Sons, New Delhi.
4. Kanti Swarup, "Operation Research", Sultan Chand & Sons, New Delhi.
5. Mittal, K.V., "Optimization Methods in Operations Research and System Analysis", New Age International (P) Ltd.
6. Hamdy A. Taha, "Operations Research".
7. Hiller and Dieherman, "Introduction to Operations Research", TMH.
8. S.S. Rao, "Optimization Theory and Application", John Wiley.

MCA-Fifth Semester

MS-31: Data Warehousing and Data Mining

1. Han, "Data Mining Concepts & Techniques", Elsevier.
2. Berson, "Data Warehousing, Data Mining & OLAP", TMH.
3. Marakas, "Modern Data Warehousing, Mining, Visualization", Pearson Education.
4. Hand, "Data Mining", PHI.
5. Sam Anahory & Dennis Murray; "Data Warehousing In the Real World", 1997, Pearson.
6. Jiawei Han & Micheline Kamber, "Data Mining- Concepts & Techniques", 2001, Morgan Kaufmann.
7. Arun Pujar, "Data Mining Techniques", 2001, University Press; Hyderabad.
8. Pieter Adriaans & Dolf Zantinge "Data Mining", 1997, Pearson.
9. Alex Berson, "Data Warehousing, Data Mining and OLTP", 1997, Mc Graw Hill.
10. Mallach, "Data warehousing System", 2000, Mc Graw Hill.

MS-32: C SHARP(C#)Programming

1. E. Balgurswami, "Programing With C#", TMH.
2. Jain, "The Complete Guide to C# Programming", Dreamtech Press.
3. Schildt, "C#: A Beginner's Guide", TMH.
4. Christoph Wille, "Presenting C#", SAMS Techmedia.
5. Vijay Mukhi, "C# Nuts & Bolts", BPB Publication.

MS-33: Advanced Computer Architecture

1. Hwang, "Advanced Computer Architecture, Parallelism, Scalability, Programmability", MGH.
2. Michael J. Flynn, "Computer Architecture, Pipelined & Parallel Processor Design", 1995, Narosa.
3. Hayes, "Computer architecture & Organization", MGM.
4. Briggs, "Computer Architecture & Parallel Processing", McGraw Hill.
5. Kain, "Advanced Computer Architecture", PHI.
6. Hwang & Briggs, "Advance Computer Architecture", 1993, TMH.

MS-34: High Speed Network

1. Tere Parnell, "Building High Speed Network", TMH.
2. Cooper E., "Broadband Network Technology", Prentice Hall.
3. Tanenbaum, "Computer Networks", PHI.
4. Green P.E., "Fibre Optics Networks", Prentice Hall.
5. Goralski, "Introduction to ATM Ntworking", MGH.