Shri G.P.M. Degree College

Degree College : Affiliated to University of Mumbai.

Junior College : Recognized by Maharashtra State Board of Secondary & Higher Secondary Education Pune.

(Committed to Excellence in Education)

Course : B.Sc. (CS) BOOKLIST : 2025-26

Semester : I			
Sr. No.	**Subject Name / Title of the Book**	**Publication**	**Notebook**	**Reference Book**
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1	Digital System & Architecture	Tech knowledge	1 Notebook, A4 size, 196 pages	1. William Stallings (2010), Computer Organization and Architecture- designing for performance, 8th edition, Prentice Hall, New Jersy. 2. Anrew S. Tanenbaum (2006), Structured Computer Organization, 5th edition, Pearson Education Inc,
2	Fundamentals of Database Systems	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Database System Concepts, Abraham Silberschatz, HenryF.Korth, S.Sudarshan, McGraw Hill,2017. 2. MySQL: The Complete Reference, VikramVaswani , McGraw Hill, 2017.
3	Introduction to Commerce	Vipul Prakashan	1 Notebook, A4 size, 196 pages	1. Business Organisation Management Maheshwari, Rajendra P, Mahajan, J.P. International Book House. 2. Introduction to Commerce, Vikram, Amit, Atlantic Pub.
4	Environmental Management and Sustainable Development-I	Manan Prakash	1 Notebook, A4 size, 196 pages	1. Carson, R. 2002. Silent Spring. Houghton Mifflin Harcourt. 2. Gadgil, M., & Guha, R. 1993. This Fissured Land: An Ecological History of India. Univ. of California Press.
5	Introduction to Programming with Python	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Python: The Complete Reference, Martin C. Brown, McGraw Hill, 2018. 2. Beginning Python: From Novice to Professional, Magnus Lie Hetland, Apress, 2017.
6	Statistics with R Programming	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Learning R Programming, Kun Ren, Packt Publishing, 2018. 2. R Programming for Statistics and Data Science(Video), 365 Careers.ackt, 2018.
7	Introduction to Communication Skills-I	Manan Prakash	1 Notebook, A4 size, 196 pages	1. Bellare, Nirmala. Reading & Study Strategies. Books. 1 and 2. Oxford University Press, 1997, 1998. 2. Comfort, Jeremy, et al. Speaking Effectively: Developing Speaking Skills for Business English. Cambridge University Press, 1994.
8	Law related Intellectual Property Rights	Manan Prakash	1 Notebook, A4 size, 196 pages	1. W.R.Cornish and D. Llewelyn, Intellectual Property: Patents, Copyrights, Trademarks and Allied Rights, Sweet& Maxwell. 2. P. Narayanan, Intellectual Property Law, Eastern Law House.

9	Indian Knowledge System	Manan Prakash	1 Notebook, A4 size, 196 pages	1. Concise history of science in India- D.M. Bose, S.N Sen, B.V. Subbarayappa. 2. Positive sciences of the Ancient Hindus- Brajendranatha seal, Motilal Banrasidas, Delhi 1958.
10	Introduction to Cultural Activities	Manan Prakash	1 Notebook, A4 size, 196 pages	1. Rabindranath Tagore, The Centre of Indian Culture. Rupa and Co, India, 2017. 2. Patnaik Devdatta, Indian Culture, Art and Heritage. Pearson, India, 2021.

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1. The student can purchase the Pvt. Publication Textbooks from the below address also under 50% Cash Back Policy*.

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2. Dear student Practical-Work has immense value for your academic excellence in computer field. You should have a Computer System/Laptop with below configuration with you at home.

Laptop Configuration

1. Processor (CPU): Intel Core i3
2. Operating System: Microsoft Windows 10 Professional x 64bit
3. Memory: 8 GB RAM
4. Storage: 500 GB internal storage drive
5. Monitor/Display: 14" LCD monitor, resolution of 1600 x 900 or better
6. Network Adapter: 802.11ac 2.4/5 GHz wireless adapter
7. Internal or external Webcam, Headphone

Softwares

1. Visual Studio
2. Python 3.10.6
3. MySQL Workbench
4. Anaconda / Google Colab / Kaggle notebook
5. Eclipse ide for Java

Semester : II				
Sr. No.	Subject Name / Title of the Book	Publication	Notebook	Reference Book
1	Design and Analysis of Algorithms	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Introduction to the Design and Analysis of Algorithms", Anany Levitin, Pearson, 3rd Edition, 2011 2. Design and Analysis of Algorithms", S. Sridhar, Oxford University Press, 2014.
2	Advanced Python Programming	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Programming in Python 3, Mark Summerfield, Pearson Education, 2nd Ed, 2018 2. Python: The Complete Reference, Martin C. Brown, McGraw Hill, 2018
3	Introduction to OOPs using C++	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Mastering C++ by Venugopal, Publisher: McGraw-Hill Education, 2017 2. Let Us C++ by Kanetkar Yashwant, Publisher: BPB Publications, 2020
4	Database Systems	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Database System Concepts", Abraham Silberschatz, Henry F. Korth, S. Sudarshan, McGraw Hill, 2017 2. MySQL: The Complete Reference", Vikram Vaswani , McGraw Hill, 2017
5	Calculus	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Calculus and analytic geometry (9th edition): George B Thomas, Ross L Finney, Addison Wesley, 1995 2. Calculus: Early Transcendentals (8th Edition): James Stewart, Brooks Cole, 2015
6	Statistical Methods	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Mood, A. M. and Graybill, F. A. and Boes D.C. (1974). Introduction to the Theory of Statistics, Ed. 3, McGraw Hill Book Company. 2. Hoel P. G. (1971). Introduction to Mathematical Statistics, John Wiley and Sons, New York.
7	E-Commerce & Digital Marketing	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Hoel P. G. (1971). Introduction to Mathematical Statistics, John Wiley and Sons, New York. 2. Fundamentals of Digital Marketing, Punit Singh Bhatia, Pearson, 2nd Edition

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Softwares

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3. MySQL Workbench
4. Anaconda / Google Colab / Kaggle notebook
5. Eclipse ide for Java

Semester : III			
Sr. No.	Subject Name / Title of the Book	Publication	Notebook	Reference Book
1	Principles of Operating Systems	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Achyut S. Godbole, Atul Kahate, Operating Systems, Tata McGraw Hill 2. Naresh Chauhan, Principles of Operating Systems, Oxford Press
2	Theory of Computation	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Theory of Computation, Kavi Mahesh, Wiley India 2. Elements of The Theory of Computation, Lewis, Papadimitriou, PHI
3	Data Structures	Tech knowledge	1 Notebook, A4 size, 196 pages	1. An Introduction Jean-Paul Structure with Applications, Jean- Paul Tremblay and Paul Sorenson, Tata MacGraw Hill 2. Data structure and Algorithm Analysis in C, Weiss, Mark Allen, Addison Wesley
4	Web Design & Development	Tech knowledge	1 Notebook, A4 size, 196 pages	1. HTML, XHTML, and CSS Bible Fifth Edition, Steven M. Schafer, WILEY, 2011 2. Learning PHP, MySQL, JavaScript, CSS & HTML5, Robin Nixon, O'Reilly, 2018
5	Psychology of Motivation & Leadership	Manan Prakash	1 Notebook, A4 size, 196 pages	**1.** Robbins, SP, & Judge, TA (2023). Organizational Behavior. 19th edition. Pearson. **2.** Mine, JB. (2005). Organizational Behavior: Essential Theories of Motivation and Leadership. Routledge.
6	Java Programming	Manan Prakash	1 Notebook, A4 size, 196 pages	1. E. Balagurusamy, Programming with Java- A Primer, Tata McGraw-Hill Education India, 2023 2. Programming in JAVA, 2nd Ed, Sachin Malhotra & Saurabh Choudhary, Oxford Press, 2018
7	Hindi Bhasha	Manan Prakash	1 Notebook, A4 size, 196 pages	1. बाबूराम सक्सेना- सामान्य भाषा विज्ञान, हिंदी साहित्य सम्मेलन, प्रयाग 2. कामताप्रसाद गुरु- हिंदी व्याकरण, लोकभारती प्रकाशन, इलाहाबाद
8	Indian Theatre: Classical Roots and Contemporary Expressions	Manan Prakash	1 Notebook, A4 size, 196 pages	1. Ankur, D. R. (2021). Doosare Natyashastra ki Khoj (in Hindi). Vani Prakashan. ISBN: 978-9350004302 2. Bhatia, N. (Ed.). (2009). Modern Indian theatre: A reader. Oxford University Press.

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Softwares

1. Visual Studio
2. Python 3.10.6
3. MySQL Workbench
4. Anaconda / Google Colab / Kaggle notebook
5. Eclipse ide for Java

**Semester : IV**
Sr. No.	**Subject Name / Title of the Book**	**Publication**	**Notebook**	**Reference Book**
1	Theory of Computation	Tech knowledge	1 Notebook , A4 size, 196 pages	1. Theory of Computation, Kavi Mahesh, Wiley India 2. Elements of The Theory of Computation, Lewis, Papadimitriou, PHI
2	Computer Networks	Tech knowledge	1 Notebook , A4 size, 196 pages	1. Computer Network, Bhushan Trivedi, Oxford University Press 2. Data and Computer Communication, William Stallings, PHI
3	Software Engineering	Tech knowledge	1 Notebook , A4 size, 196 pages	1. Software Engineering: Principles and Practices", Deepak Jain, OXFORD University Press, 2. Software Engineering: Principles and Practices", Deepak Jain, OXFORD University Press,
4	IoT Technologies	Tech knowledge	1 Notebook , A4 size, 196 pages	1. Abusing the Internet of Things, Nitesh Dhanjani, O'Reilly 2. Learning Internet of Things, Peter Waher, Packt Publishing (2015)
5	Android Application Development	Tech knowledge	1 Notebook , A4 size, 196 pages	1. Head First Android Development: A Learner's Guide to Building Android Apps with Kotlin Dawn Griffiths, 3rd Edition, O'Reilly Media, 2021 2. "Beginning Android 4 Application Development", Wei-Meng Lee, March 2012, WROX.
6	Advanced Application Development	Tech knowledge	1 Notebook , A4 size, 196 pages	1. Full Stack Javascript Development with Mean - MongoDB, Express, AngularJS, and Node.JS by Adam Bretz, Colin J Ihrig, Shroff/Site Point, 2015 2. Practical Flutter by Zammetti Frank, Apress, 2019
7	Research Methodology	Tech knowledge	1 Notebook , A4 size, 196 pages	1. Research Methodology: Methods and Techniques, Dr. R. K. Jain, , Fifth Edition, VEI, 2021 2. Research Methodology, R. Panneerselvam, Second Edition, PHI, 2014

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Softwares

1. Visual Studio
2. Python 3.10.6
3. MySQL Workbench
4. Anaconda / Google Colab / Kaggle notebook
5. Eclipse ide for Java

Semester : V				
Sr. No.	Subject Name/ Title of the Book	Publication	Notebook	Reference Book
1	Artificial Intelligence	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Artificial Intelligence: Foundations of Computational Agents, David L Poole,Alan K. Mackworth, 2nd Edition, Cambridge University Press ,2017 2. Artificial Intelligence: A Modern Approach, Stuart Russell and Peter Norvig, 3rd Edition, Pearson, 2010.
2	Software Testing & Quality Assurance	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Software engineering: An Engineering approach, J.F. Peters, W. Pedrycz , John Wiley,2004" 2. Software Testing and Quality Assurance Theory and Practice, Kshirsagar Naik, Priyadarshi Tripathy , John Wiley & Sons, Inc., Publication, 2008
3	Information & Network Security	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Cryptography and Network Security, Atul Kahate, Tata McGraw-Hill, 2013. 2. Cryptography and Network, Behrouz A Fourouzan, Debdeep Mukhopadhyay, 2nd Edition, TMH, 2011
4	Project Management	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Introduction to Software Project Management by Adolfo Villafiorita · 2016, CRC press, e book format 2. Project Management Professional Workbook, Claudia M. Baca, Patti M. Jansen, Sybex Publication, 2013
5	Cyber Forensic	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Bill Nelson,Amelia Philips and Christopher Steuart, "Guide to computer forensics and investigations", course technology,6th edition 2. Kevin Mandia, Chris Prosise, "Incident Response and computer forensics",Tata McGrawHill
6	Project Work - I			

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5. Eclipse ide for Java

Semester : VI			
Sr. No.	Subject Name/ Title of the Book	Publication	Notebook	Reference Book
1	Wireless Sensor Networks and Mobile Communication	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Fundamentals of Wireless Sensor Networks, Theory and Practice, Waltenegus Dargie, Christian Poellabauer, Wiley Series on wireless Communication and Mobile Computing, 2011. 2. Networking Wireless Sensors, Bhaskar Krishnamachari , Cambridge University Press, 2005.
2	Cyber Forensic	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Guide to computer forensics and investigations, Bill Nelson, Amelia Philips and Christopher Steuart, course technology,5th Edition,2015" 2. Incident Response and computer forensics, Kevin Mandia, Chris Prosise, Tata McGrawHill, 2nd Edition, 2003
3	Information Retrieval	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Information Retrieval Implementing and Evaluating Search Engines, Stefan Büttcher, Charles L. A. Clarke and Gordon V. Cormack, The MIT Press; Reprint edition (February 12, 2016) 2. Search Engines: Information Retrieval in Practice, Bruce Croft, Donald Metzler and Trevor Strohman, 1st Edition, Pearson, 2009."
4	Digital Image Processing	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Digital Image Processing 3rd Edition, Rafael C Gonzalez, Richard E Woods, Pearson, 2008 2. Scilab Textbook Companion for Digital Image Processing, S. Jayaraman, S. Esakkirajan And T. Veerakumar,2016_(https://scilab.in/textbook_comp anion/generate_book/125)
5	Ethical Hacking	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Certified Ethical Hacker Study Guide v9, Sean-Philip Oriyano, Sybex; Study Guide Edition, 2016 2. Certified Ethical Hacker: Michael Gregg, Pearson Education,1st Edition, 2013

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