



# 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 : BSc. (IT)

BOOKLIST : 2022-23

Semester : I				
Sr. No.	Subject Name / Title of the Book	Publication	Notebook	Reference Book
1	Programming Principles with C	Techknowledge	1 Notebook, A4 size, 196 pages	1. Pro McGraw-Hillith C, Byron Gottfried, Tata McGraw Hill 2. Programming Logic and Design, Joyce Farell, Cengage Learning
2	Digital Logic and Applications	Techknowledge	1 Notebook, A4 size, 196 pages	1. Digital Electronics and Logic Design, N. G.Palan, Technova 2. Digital Principles and Applications, Malvino and Leach, Tata McGraw Hill
3	Fundamentals of Database Management Systems	Techknowledge	1 Notebook, A4 size, 196 pages	1. Modern Operating Systems, Andrew S.Tanenbaum, Herbert Bos, Pearson 2. Operating Systems, Godbole and Kahate, McGraw Hill
4	Computational Logic and Discrete Structure	Techknowledge	1 Notebook, A4 size, 196 pages	1. Discrete Mathematics with Applications, Sussana S. Epp, Cengage Learning 2. Discrete Mathematics, Schaum's Outlines Series McGrawour Lipschutz, Marc Lipson, Tata McGraw Hill
5	Technical Communication Skills	Techknowledge	1 Notebook, A4 size, 196 pages	1. Business Communication, Edited by Meenakshi Raman and Prakash Singh, Oxford University Press 1 2. Professional Communication, Aruna Koneru, Tata McGraw Hill

## Kindly Note -

- The student can purchase the Pvt. Publication Textbooks from the below address also under 50% Cash Back Policy\*.  
The Book Shop - Books Emporium  
Address - Opp. Chinai College, Old Nagardas Road, Andheri East. Mumbai - 400 069  
\* The refund of 50% of the cost of the books in next year is sole activity/responsibility of the book shop 'Books Emporium' under its terms and conditions. The college has no responsibility for the same under any circumstances.
- 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

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

## Softwares

- Visual Studio
- Python 3.10.6
- MySQL Workbench
- Anaconda / Google Colab / Kaggle notebook
- Eclipse ide for Java

**Semester : II**

<b>Sr. No.</b>	<b>Subject Name / Title of the Book</b>	<b>Notebook</b>	<b>Reference Book</b>
1	Object Oriented Programming with C++	1 Notebook, A4 size, 196 pages	1. Object-Oriented, Timothy Budd, TMH 2. Object-Oriented Programming with C++, E.Balagurusamy, Tata McGraw Hill
2	Fundamentals of Micro Processor and Microcontrollers	1 Notebook, A4 size, 196 pages	1. Microprocessors Architecture, Programming and Apply Pograms with the 8,085, Ramesh Gaonkar, Pegram 2. Computer System Architecture, M. Morris Mano, PHI
3	Web Applications Development	1 Notebook, A4 size, 196 pages	1. Web Design the Complete Reference, ThomasPowell, Tata McGraw Hill 2. JavaScript 2.0: The Complete Reference, ThomasPowell and Fritz Schneider, Tata McGraw Hill
4	Numerical Methods	1 Notebook, A4 size, 196 pages	1. Introductory Methods of Numerical Methods, S. S. Shastri, PHI 2. Numerical Methods for Engineers, Steven C.Chapra, Raymond P, Tata Mc Graw Hill
5	Green IT	1 Notebook, A4 size, 196 pages	1. Green IT, Toby Velte, Anthony Velte, Robert Elsenpeter, Toby Velte, Anthony Velte, Robert Elsenpeter 2. Green Data Center: Steps for the Journey, Alvin Galea, Michael, Schae Distributorsbers, ShroffPublishers and Distributors

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**Softwares**

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2. Python 3.10.6
3. MySQL Workbench
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**Semester : III**

<b>Sr. No.</b>	<b>Subject Name / Title of the Book</b>	<b>Publication</b>	<b>Notebook</b>	<b>Reference Book</b>
1	Python Programming	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Think Python, Allen Downey, O'Reilly Computer Science using Python 3 2. Introduction to Problem Solving with Python, E. Balagurusamy, TMH
2	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
3	Computer Networks	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Data Communication and Networking, Behrouz A. Forouzan, Tata McGraw Hill 2. Computer Networks, Andrew Tanenbaum, Pearson
4	Database Management Systems	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Database System and Concepts McGraw-Hill Schatz, H Korth, S Sudarshan, McGraw Hill 2. Introduction to Database System, C.J. Date, Pearson
5	Applied Mathematics	Tech knowledge	1 Notebook, A4 size, 196 pages	1. A textbook of Applied Mathematics Vidyarthi, P. N. Wartikar and J. N. Pune Vidyarthi Graha 2. Higher Engineering Mathematics, Dr. B. S. Grewal Khanna Publications

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**Softwares**

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5. Eclipse ide for Java

**Semester : IV**

Sr. No.	Subject Name / Title of the Book	Publication	Notebook	Reference Book
1	Core Java	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Java: The Complete Reference, Herbert Schildt, McGraw Hill 2. Core Java, Volume I: Fundamentals, Hortsman, Pearson
2	Introduction to Embedded System	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Introduction to embedded systems, Shibu K V, Tata Mcgraw-Hill 2. The 8051 Microcontroller and Embedded Systems, Muhammad Ali Mazidi, Pearson
3	Computer Oriented Statistical Techniques	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Statistics, Murray R. S International J. Stephens. McGraw – Hill International 2. Fundamental of mathematical statistics S.C. Gupta and V.K. Kapoor, Sultan Chand And Sons
4	Software Engineering	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Software Engineering, edition, Ian Somerville, Pearson Education. 2. Software engineering, a practitioner's approach, Roger Pressman, Tata Mcgraw-hill
5	Computer Graphics and Animation	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Computer Graphics - Principles and Practice, J. D. Foley, A. Van Dam, S. K. Feiner and J. F. Hughes, Pearson 2. Principles of Interactive Computer Graphics, William M. Newman and Robert F. Sproull, TMH

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**Softwares**

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Semester : V				
Sr. No.	Subject Name / Title of the Book	Publication	Notebook	Reference Book
1	Software Project Management	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Software Project Management, Bob Hughes, Mike Cotterell, Rajib Mall, TMH 2. Software Project Management, Walker Royce, Pearson
2	Internet of Things	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Designing the Internet of Things, Adrian McEwen, Hakim Cassimally, WILEY 2. Internet of Things – Architecture and Design, Raj Kamal, McGraw Hill
3	Advanced Web Programming	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Beginning ASP.NET 4.5 in C#, Matthew MacDonald, Apress 2. Hill programming, J. Kanjilal, Tata McGraw Hill
4	Linux System Administration	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Red Hat Enterprise Linux 6 Administration, Sander van Vugt, John Wiley and Sons 2. Red hat Linux Networking and System Administration, Terry Collings and Kurt Wall, Wiley
5	Enterprise Java	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Java EE 7 For Beginners, Sharanam Shah, Vaishali Shah, SPD 2. Advanced Java Programming, Uttam Kumar Roy, Oxford Press

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**Semester : VI**

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1	Software Quality Assurance	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Software Testing: Principles, Techniques, and Tools, M. G. Limaye, TMH 2. Foundations of Software Testing, Dorothy Graham, Erik van Veenendaal, Isabel Evans, Rex Black Cengage Learning
2	Security in Computing	Tech knowledge	1 Notebook, A4 size, 196 pages	1. The Complete Reference: Information Security, Mark Rhodes Ousley, McGraw Hill 2. Principles of Computer Security TIA Security+ and Beyond, Wm. Arthur Conklin, Greg White, McGraw Hill
3	Business Intelligence	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Business Intelligence: Data Mining and Optimization for Decision Mak Supportrlo Vercellis, Wiley 2. Decision Support and Business Intelligence Systems, Efraim Turban, Ramesh Sharda, Dursun Delen, Pearson
4	Principles of Geographic Information Systems	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Principles of Geographic Information Systems an Introductory Text Book, Editors: Otto Huisman and Rolf A., The International Institute of Geographic Information Science and Earth Observation 2. Introduction to Geographic Information McGraw-Hilltems, Chang Kang-tsung (Karl)
5	Cyber Laws	Tech knowledge	1 Notebook, A4 size, 196 pages	1. Cyber Law Simplified, Vivek Sood, TMH Education 2. Cybersecurity Law, Jeff Kosseff, Wiley

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