

3.3.2.1. Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years

Sr. No	Particulars	Page No.
1.	Cover page, content page and first page of the selected publication	1-60
2.	Web-link of book showing ISBN number to be given by title, author, Department/ School/ Division/ Centre/ Unit/ Cell, name and year of publication	61-62


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

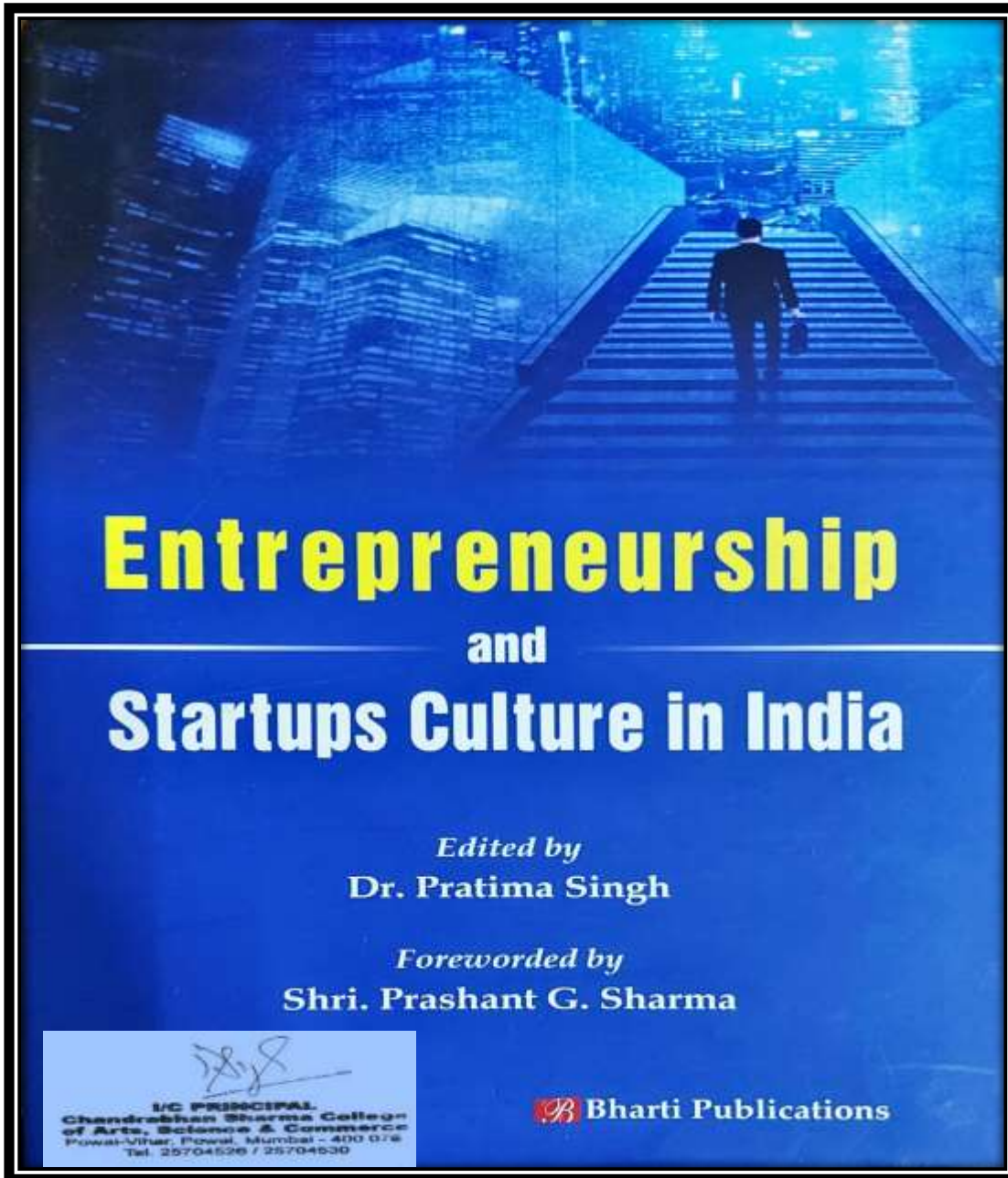
1. COVER PAGE, CONTENT PAGE AND FIRST PAGE OF THE PUBLICATION INDICATING ISBN NUMBER AND YEAR OF YEAR OF PUBLICATION FOR BOOKS/CHAPTERS

SR. NO	YEAR	Book Name	Publication	ISBN NO	Name of the Author	PAGE NO
1.	2021-22	Entrepreneurship and Start-up Culture in India	BHARTI PUBLICATION	978-93-91681-55-5	Dr. Pratima Singh	3-6
2.	2020-21	Core java	HIMALAYA PUBLICATION	978-93-5273-756-7	Mr. Sandeep Vishwakarma	7-10
3.	2020-21	Data structures	SHETH PUBLICATION	978-93-87877-80-1	Mr. Sandeep Vishwakarma	11-14
4.	2019-20	Accountancy and Financial Management – I	HIMALAYA PUBLICATION	978-93-5367-581-3	Mrs. Pratima Singh	15-18
5.	2019-20	Accountancy and Financial Management – III	HIMALAYA PUBLICATION	978-93-5367-494-6	Mrs. Pratima Singh	19-22
6.	2019-20	Business Ethics and Corporate Governance	HIMALAYA PUBLICATION	978-93-5299-288-1	Mr. Tushar Agarwal	23-26
7.	2019-20	Direct Taxation	HIMALAYA PUBLICATION	978-93-5367-513-4	Mrs. Pratima Singh	27-32
8.	2019-20	Internet of Things	HIMALAYA PUBLICATION	978-93-5299-445-8	Mr. Nitesh Shukla	33-36
9.	2019-20	Security in computing	HIMALAYA	978-93-5299-	Mr. Sandeep	37-39


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

			PUBLICATION	704-6	Vishwakarma	
10.	2019-20	Web programming	HIMALAYA PUBLICATION	978-93-5273-018-6	Mr. Ravindra Jaiswal	40-43
11.	2018-19	Enterprise java	HIMALAYA PUBLICATION	978-93-5299-376--5	Mr. Sandeep Vishwakarma	44-48
12.	2018-19	Software testing	HIMALAYA PUBLICATION	978-93-5299-420-5	Mr. Arvind Singh	49-52
13.	2017-18	Accountancy and Financial Management – III	HIMALAYA PUBLICATION	978-93-5262-149-1	Mrs. Pratima Singh	53-56
14.	2017-18	Data structures	SHETH PUBLICATION	978-93-5149-846-9	Mr. Sandeep Vishwakarma	57-60


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020



VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

Contents

<i>Foreword</i>	<i>iii</i>
<i>Preface</i>	<i>iv-v</i>
1. A Study on Start-Up Ecosystem and its Future Scope in India Sandeep Vishwakarma	1-14
2. Aatmanirbhar Bharat Krishnakant Pandey & Arun Vishwakarma	15-23
3. Women Entrepreneurs' Accomplishment: An Experimental Study of Indian Female Entrepreneurs Dr. Kajal Chheda	24-33
4. Role of Microfinance on Women Entrepreneurship Anjana Verma	34-38
5. Women Entrepreneurship and Business Janvi P. Ailani	39-48
6. Social Media and Marketing for the Entrepreneur Smita Mangesh Junnarkar	49-57
7. Entrepreneurship Propensity Among Students in India Dipti Parab	58-67
8. India's Upcoming Entrepreneur Community, Generation Z Dr. Anita S. Pandey	68-78
9. Pradhan Mantri Kaushal Vikas Yojana: A Pathway to Entrepreneurs Umesh Kabadi	79-86


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

viii

- | | |
|--|---------|
| 10. Role of Commercial Banks in Enhancing Small & Medium Enterprises
Namrata Vikas Dube | 87-95 |
| 11. Rural Innovation: A Game Changer in Inclusive Growth
Raju N. Savkare | 96-106 |
| 12. Web 4.0 and its Possible Applications in Library Services
Sunil Ubale & Snehal Sambhar | 107-115 |
| 13. Women Entrepreneur and Self-Help Groups
Dr. Radhika Iyer | 116-127 |
| 14. Women Entrepreneurship
Sharlet Bhaskar | 128-138 |
| 15. A Study on Marketing, Social and Psychological Challenges of Women in Startup Business in Mumbai
Dr. A. Mahesh Kumar | 139-150 |


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

About the Book



The present edited volume titled "Entrepreneurship and Startups Culture in India" is collection of 15 papers on different aspects of Entrepreneurship and Startups Culture. Key feature of this book is that it gives in-depth information about Business Incubation as well as Startups Culture in India. The present book is an amalgamation of thoughts, experiences and research studies conducted by various scholars and professionals which is addressing a wide range of subtopics related to Entrepreneurship Start-Up Ecosystem and its Future, Aatmanirbhar Bharat campaign, Pradhan Mantri Kaushal Vikas Yojna, Women Entrepreneurs, Social Media and Marketing, generation Z, Self Help Groups Entrepreneurs etc.

This book will be extremely useful to all of the country's young and creative minds who wish to become entrepreneurs and contribute to India's rising economy. Apart from that, the book will be useful to students, researchers, and professors who want to stay up to date on the subject.

About the Editor



Dr. Pratima Singh is the Principal of Chandrabhan Sharma College of Arts, Science & Commerce affiliated to University of Mumbai. She has 20 years of academic and 6 years of corporate and consultancy experience. She is Doctorate in commerce and has been associated with teaching of Banking, Auditing and Direct taxation at undergraduate and post graduate level. She has been recognized as post graduate teacher by University of Mumbai. Her research work includes Minor research projects submitted to University of Mumbai, papers presented at Conferences, Journals, M.Phil and PhD. She has published several research papers in reputed national and international journals. She is member of the Board of Studies of the University of Mumbai in the subject of Financial Markets. She is been part of Syllabus revision committee of university of Mumbai for post graduate level. She has to her credit books authored on Direct taxation and Accountancy & Financial Management for undergraduate level. She is also a member of Indian Commerce Association.



Bharti Publications, New Delhi

E-mail: bhartipublications@gmail.com, info@bhartipublications.com,
www.bhartipublications.com

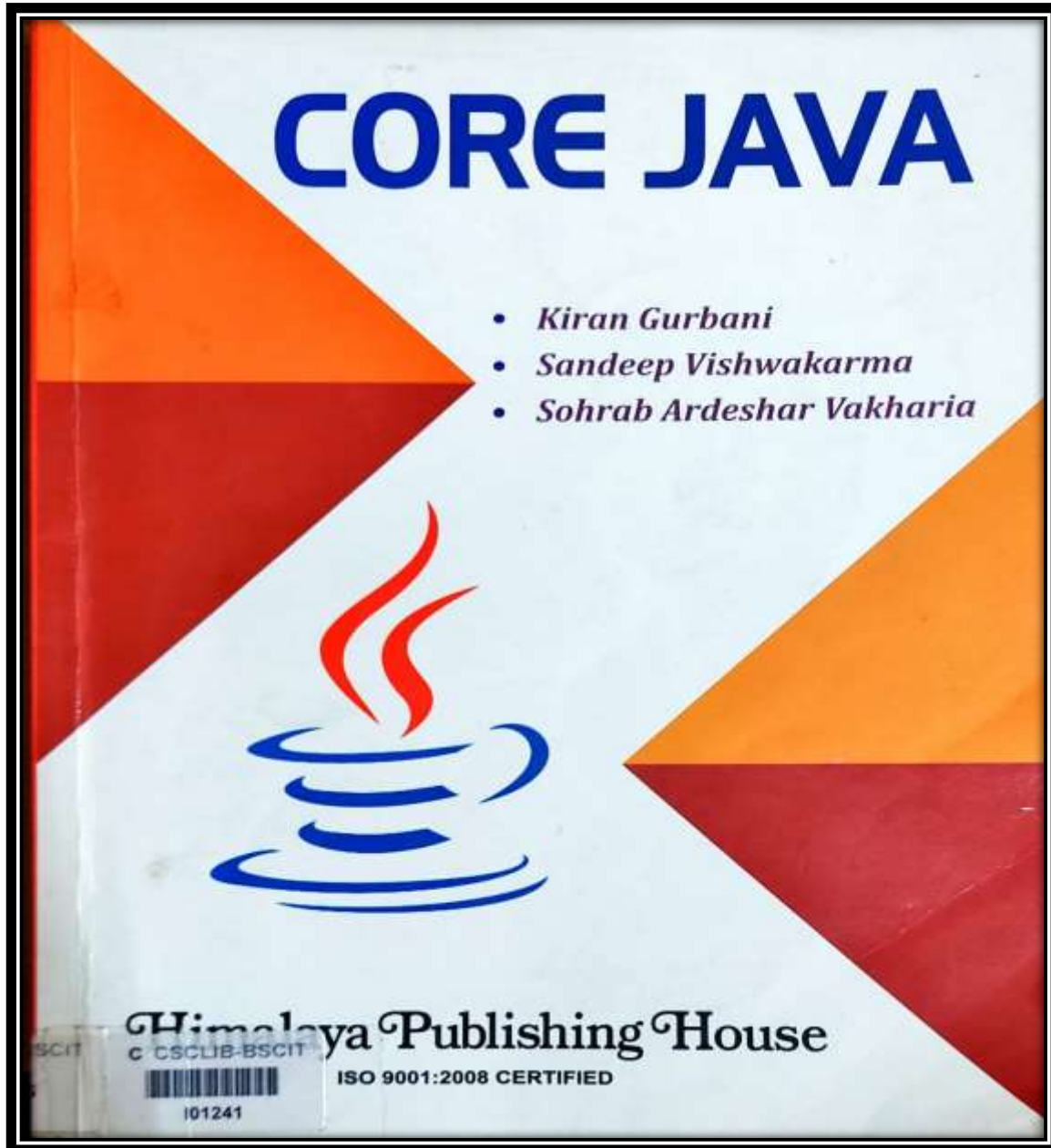
978-93-91681-55-5



Price- Rs. 680/-

AS

VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020




VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

Contents

UNIT I		
1.	Introduction to Java Languages	1 – 62
UNIT II		
2.	Control Flow Statements	63 – 75
3.	Iterations	76 – 87
4.	Class	88 – 119
UNIT III		
5.	Inheritance	120 – 139
6.	Packages	140 – 146
UNIT IV		
7.	Enumerations and Arrays	147 – 158
8.	Multithreading	159 – 170
9.	Exception Handling	171 – 186
10.	Byte Streams	187 – 221
UNIT V		
11.	Event Handling	222 – 233
12.	Abstract Window Toolkit (AWT)	234 – 259
	Practicals	260 – 298
	Model Question Paper	299



AS
VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

CORE JAVA

(As per the New Syllabus of Mumbai University for B.Sc. IT, Semester IV, 2017-18)



004
GUP/vis
101241

Prof. Kiran Gurbani

*B.E., MCA, M.Phil.,
Head of Computer Science and Information
Technology Department,
R.K. Talreja College of Arts, Science and
Commerce,
Ulhasnagar (West).*

Prof. Sandeep Vishwakarma

*B.Sc., MCA,
B.Sc. (IT) Co-ordinator,
Chandrabhan Sharma College of Arts,
Science & Commerce
Powai, Mumbai.*

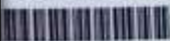
Sohrab Ardeshar Vakharia

*B.Sc. (IT), M.Sc. (IT),
Visiting Lecturer at Various Colleges of Mumbai University and
Professional Web Developer/Consultant.
Mumbai.*



Himalaya Publishing House

CSCLIB-BSCIT



101241

ISO 9001:2008 CERTIFIED

VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

ABOUT THE AUTHORS



Prof. Kiran Gurbani is currently Head of Computer Science Department of R.K. Taireja College of Arts, Science & Commerce. Overall 18+ years of experience as a Trainer/Academic in-charge/SME on varied technology platform. She is a Professor from last 16 years for various technologies, Object Oriented C++, Java, Visual Basic, DoT Net (VB.NET & ASP.NET), Unix Shell Scripting, Linux Administration, Oracle, SQL, Cloud Computing, Virtualization and Cloud Management, Web Technologies, Software Engineering, Software Testing, JBOSS and Web Logic, Parallel and Distributed Computing, ADBMS, C#, CCNA and Internet Technologies.

She is freelancer corporate trainer for the companies Caggemini, Oracle, o-Edge and Seed. She is a Guest faculty for ICWA, MMS Systems and Technologies and M.Sc. Computer Science and Information Technology. She has published books on Visual Basic, C++ Programming, Linux Operating System, Java and Data Structures, Linux Administration, Imperative Programming and Web Programming.

Forthcoming Book:

Big Data Analytics (Reference Book)

She has published several papers:

(1) Different ICT Devices, (2) Problems Faced by Women in Career Building, (3) Different Mechanisms of Cloud Storage, (4) OpenStack Private Cloud with GitHub and (5) Probabilistic Independence Virtualization Database with NOSQL Database System Analysis in Bigdata.

She is Reviewer and Editor of IT/CS Books for Himalaya Publishing House.



Sandeep Vishwakarma is currently Head of Department of Chandrabhan Sharma College of Science, Arts and Commerce. He has more than 12 years of experience in teaching and 2 year industry experience. He has been teaching various Technologies - OOPS, Advanced Java, Linux Admin, Software Engineering, DBMS, ORACLE, C Programming, Data Structure, Operating System, Logical Discrete Mathematics, C# and Internet Technologies.

He is Visiting Faculty for M.Sc. (IT/CS) and MMS.

He has published book on Fundamental of Digital Computing, Java and Data Structure, Advanced Java, Web Programming and Data Structures.



Sohrab Ardeshar Vakharia is self-motivated and resilient entrepreneur and teaching faculty since 2014. He is a technology enthusiast who loves to work with different technologies. He had published a research paper and developed a programming language "myLanguage" under the guidance of Prof. Mahendra Kanojia and Prof. Fatuni Parekh. Having keen interest in Artificial Intelligence and Information Security, Sohrab have been conducting several workshops and seminars in the same, and have been teaching subjects such as Artificial Intelligence, Neural Networks, Network and Information Security, Computer Forensics and Ethical Hacking in various colleges and institutions. He has also co-authored a book on "Web Development" which is highly accepted in the market and appreciated by faculties and students. He has recently developed an online educational platform for students www.wisemonkeys.in - an initiative to spread knowledge worldwide.

www.himpub.com

ISBN: 978-93-5273-756-7



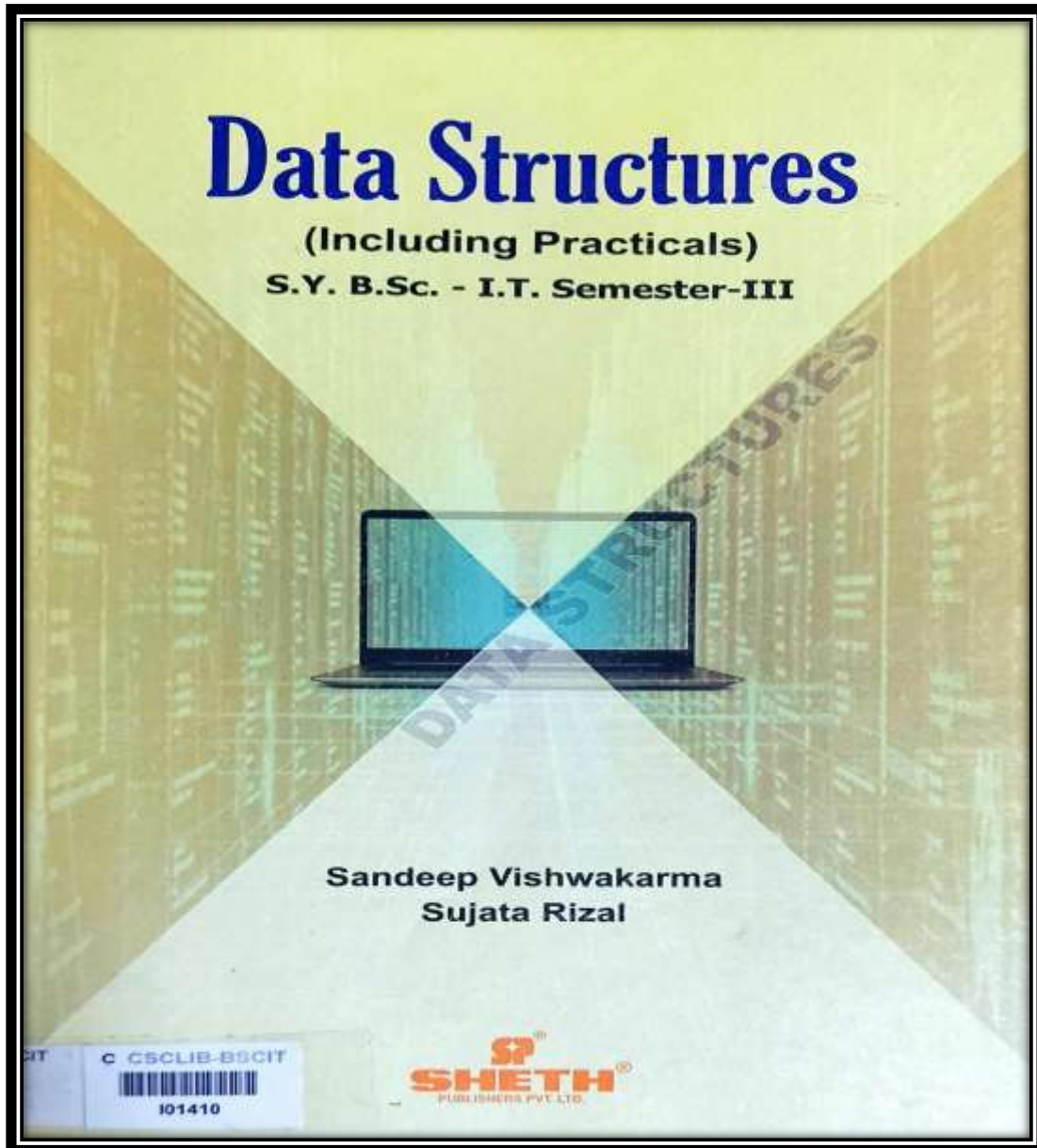
9 789352 737567

ISBN: 978-93-5273-756-7

PSM 720

₹260.00

VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020



AS
VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

CONTENTS	
UNIT - I	
1. Introduction	1 - 14
2. Array	15 - 31
UNIT - II	
3. Linked List - I	32 - 43
4. Advanced Linked List	44 - 56
UNIT - III	
5. Stack	57 - 68
6. Gueue	69 - 78
UNIT - IV	
7. Sorting and Searching Techniques	79 - 92
8. Tree	93 - 120
9. Advanced Tree Structure	121 - 134
UNIT - V	
10. Hashing Techniques	135 - 145
11. Graph	146 - 165
Practicals	166 - 213
Model Question Paper	214 - 214
Mumbai University Question Paper Nov., 2017	215 - 216
Mumbai University Question Paper Mar., 2018	217 - 218
Mumbai University Question Paper Mar., 2019	219 - 220
(ix)	


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

Prepared as per the Syllabus prescribed by Mumbai University

DATA STRUCTURES
(Including Practicals)

S. Y. B. Sc. – (I.T.) (Semester – III)

PROF. SANDEEP VISHWAKARMA
(B.Sc., M.C.A.)
B.Sc. (I.T.) Co-ordinator,
Chandrabhan Sharma College of Arts, Science & Commerce,
Powai, Mumbai.



PROF. SUJATA RIZAL
B.Sc. (I.T.), M.Sc. (I.T.), ISTQB
Assistant Professor,
S. M. Shetty College of Science, Commerce and Management Studies,
Powai, Mumbai.

SECOND EDITION

When you care enough to be better than the best


SP SHETH
PUBLISHERS PVT. LTD.
MUMBAI

GOA ☆ NAGPUR ☆ VADODARA ☆ BHAVNAGAR


W US:  /shethpublishers  /sheth.publishers

C CSCLIB-BSCIT
101410

1/S.Y.B.Sc.-(I.T.)-Data Structure-(Sem-III)



005-73
U15/212
201410




VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

About the Authors



Prof. Sandeep Vishwakarma

Sandeep Vishwakarma is currently Head of Department of Chandrabhan Sharma College of Science, Arts and Commerce. He has more than 12 Years of Experience in Teaching and 2 Year Industry Experience. He has been teaching various Technologies-OOPS, Advanced Java, Linux Admin, Software Engineering, DBMS, ORACLE, C Programming, Data Structure, Operating System, Logical Discrete Mathematics, C#, Internet Technologies.

He is visiting Faculty for MSc(IT/CS) and MMS.

He has published Book on Fundamental of Digital Computing, Java and Data Structure, Advanced Java, Web Programming.





Prof. Sujata Rizal

Sujata Rizal is currently an Assistant Professor of S.M.Shetty College of Science, Commerce and Management Studies, Powai. She has been teaching subjects like Advanced Java, DBMS, Data Structures, Operating System, Fundamentals of Digital Computing, Green Computing, Advanced SQL, Data Warehousing, Advanced Computers (SY BMM), Introduction to Computers (FY BMS), Information Technology in Accountancy (SY BAF), Information Technology (SY BBI).

She has two years of teaching experience.



Unit No.4, Ground Floor, Lalwani Industrial Estate, 14, G.D. Ambekar Marg, Wadala, Mumbai-400 031
Tel.: (022) 6662 4553, 6662 4554. Fax: 6662 4556. e-mail: support@shethpublishers.com

Follow us:  /shethpublishers  /sheth.publishers

ISBN - 978-93-87877-80-1



Price - ₹ 175.00


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

ACCOUNTANCY AND FINANCIAL MANAGEMENT - I



• Rajiv Mishra
• Pratima Singh • Hemal Vora
• Nutan Lokhande

Himalaya Publishing House
ISO 9001:2015 CERTIFIED


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

Contents

1. Accounting Standards	1 – 23
2. Stock Valuation	24 – 64
3. Capital and Revenue Expenditure	65 – 87
4. Final Accounts	88 – 139
5. Departmental Accounts	140 – 168
6. Accounting for Hire Purchase	169 – 199


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

Accountancy and Financial Management – I

(As Per the Revised Syllabus 2016-17 of Mumbai University for
F.Y.B.Com., Semester I)

Rajiv Mishra

*M.Com., MBA, M.Phil., UGC-NET, Ph.D. (Pursuing).
Recognised UG Professor by University of Mumbai.
Assistant Professor in BBI & Co-ordinator, M.Com.,
N.E.S. Ratnam College of Arts, Science and Commerce,
Bhandup (W), Mumbai - 400 078.*

*Visiting Faculty at N.G. Acharya, D.K. Marathe, V.K. Menon College, Pragati College,
Chandrabhan Sharma College, Dnyansadhana College and Vikas College
for M.Com., BBI, BMS, BFM and BAF.*

Dr. Pratima Singh

*M.Com., M.Phil., B.Ed., Ph.D.
I/C Principal,
Chandrabhan Sharma College, Powai.*

Dr. Hemal Vora

*M.Com., B.Ed., MBA, M.Phil., NET, Ph.D.
Assistant Professor, Gurukul College of Commerce,
Ghatkopar, Mumbai.*

Nutan Lokhande

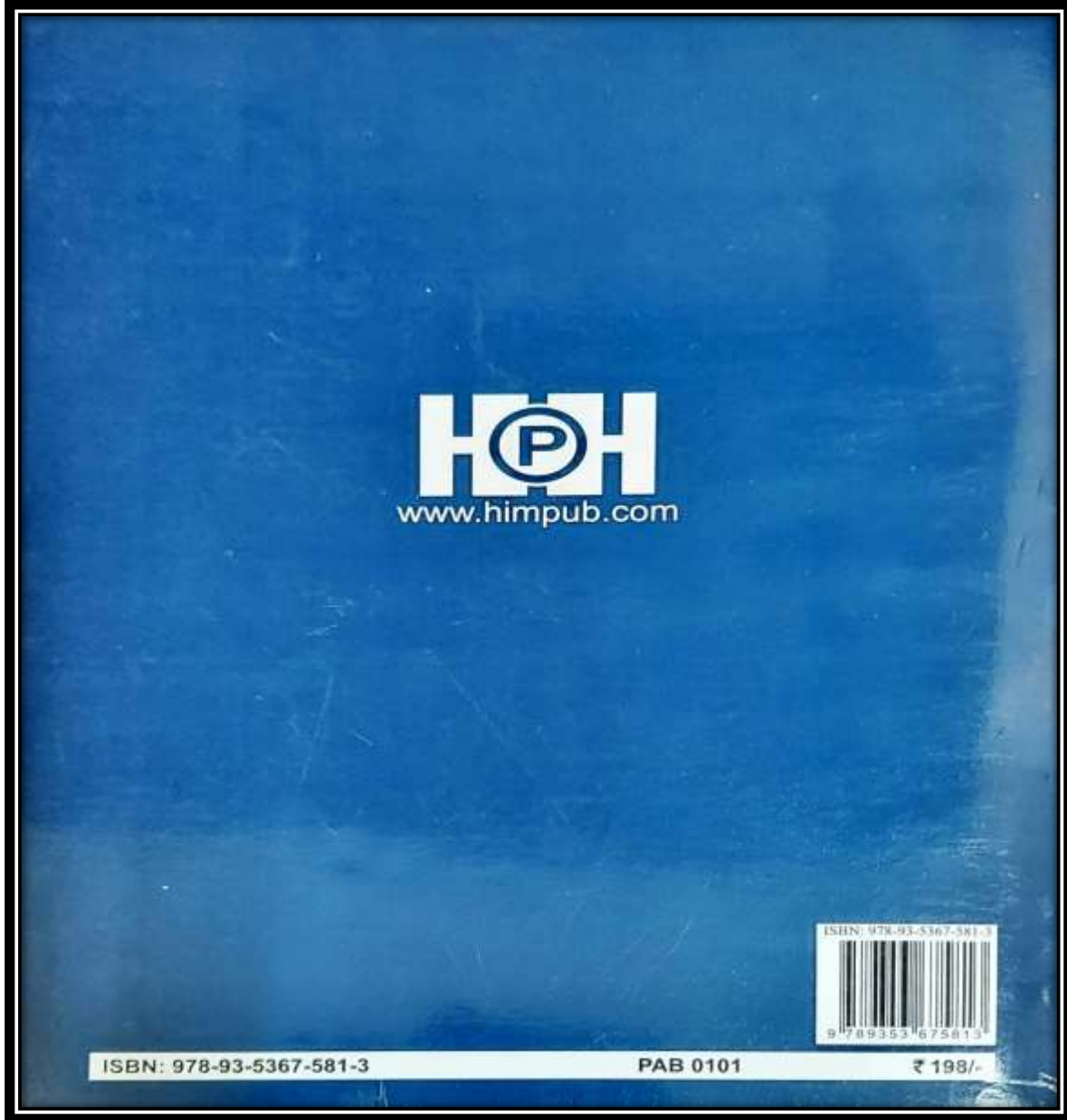
*M.Com., NET,
Lecturer, N.E.S. Ratnam College of
Arts, Science and Commerce,
Bhandup (W), Mumbai - 400 078.*



Himalaya Publishing House

ISO 9001:2015 CERTIFIED

I/C PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020




VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

Accountancy and Financial Management - III



- Rajiv Mishra
- Pratima Singh • Asif Baig
- Aruna Singham

Himalaya Publishing House
ISO 9001:2015 CERTIFIED


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

Contents

1. Partnership Final Account	1 – 46
2. Piecemeal Distribution of Cash	47 – 81
3. Amalgamation of Partnership	82 – 121
4. Conversion/Sale of a Partnership Firm into a Ltd. Company	122 – 170


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

Accountancy and Financial Management – III

(As Per the Revised Syllabus of S.Y. B.Com., 2017-18, Semester III,
University of Mumbai)

Rajiv Mishra

*M.Com., MBA, M.Phil., UGC-NET, Ph.D. (Pursuing).
Recognised UG Professor by University of Mumbai.
Assistant Professor in BBI & Co-ordinator, M.Com.,
N.E.S. Ratnam College of Arts, Science and Commerce,
Bhandup (W), Mumbai - 400 078.
Visiting Faculty at N.G. Acharya, D.K. Marathe, V.K. Menon College, Pragati College,
Chandrabhan Sharma College, Dnyansadhana College and Vikas College
for M.Com., BBI, BMS, BFM and BAF.*

Dr. Pratima Singh

*M.Com., M.Phil., B.Ed., Ph.D.
I/C Principal,
Chandrabhan Sharma College, Powai.*

Dr. Asif Baig

*M.Com., B.Ed., M.Phil., MBA, NET, Ph.D.
HOD, Accounts at Gurukul College, Ghatkopar &
Visiting Faculty at NES Ratnam College for M.Com.*

Dr. Aruna Singham

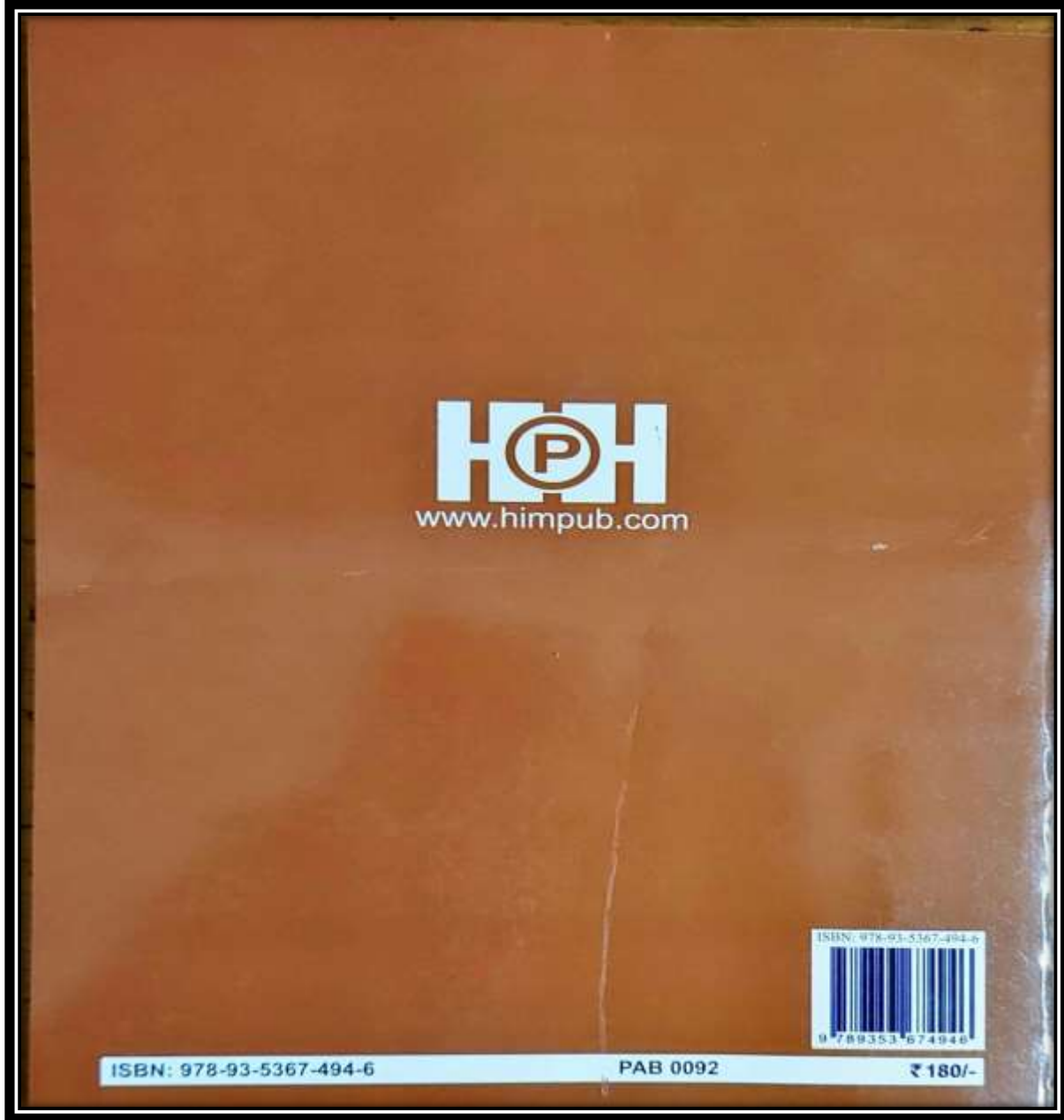
*M.Com., M.Phil., Ph.D.
Assistant Professor, S.K. Somaiya Degree College of Arts, Science & Commerce
Vidyavihar, Mumbai.*



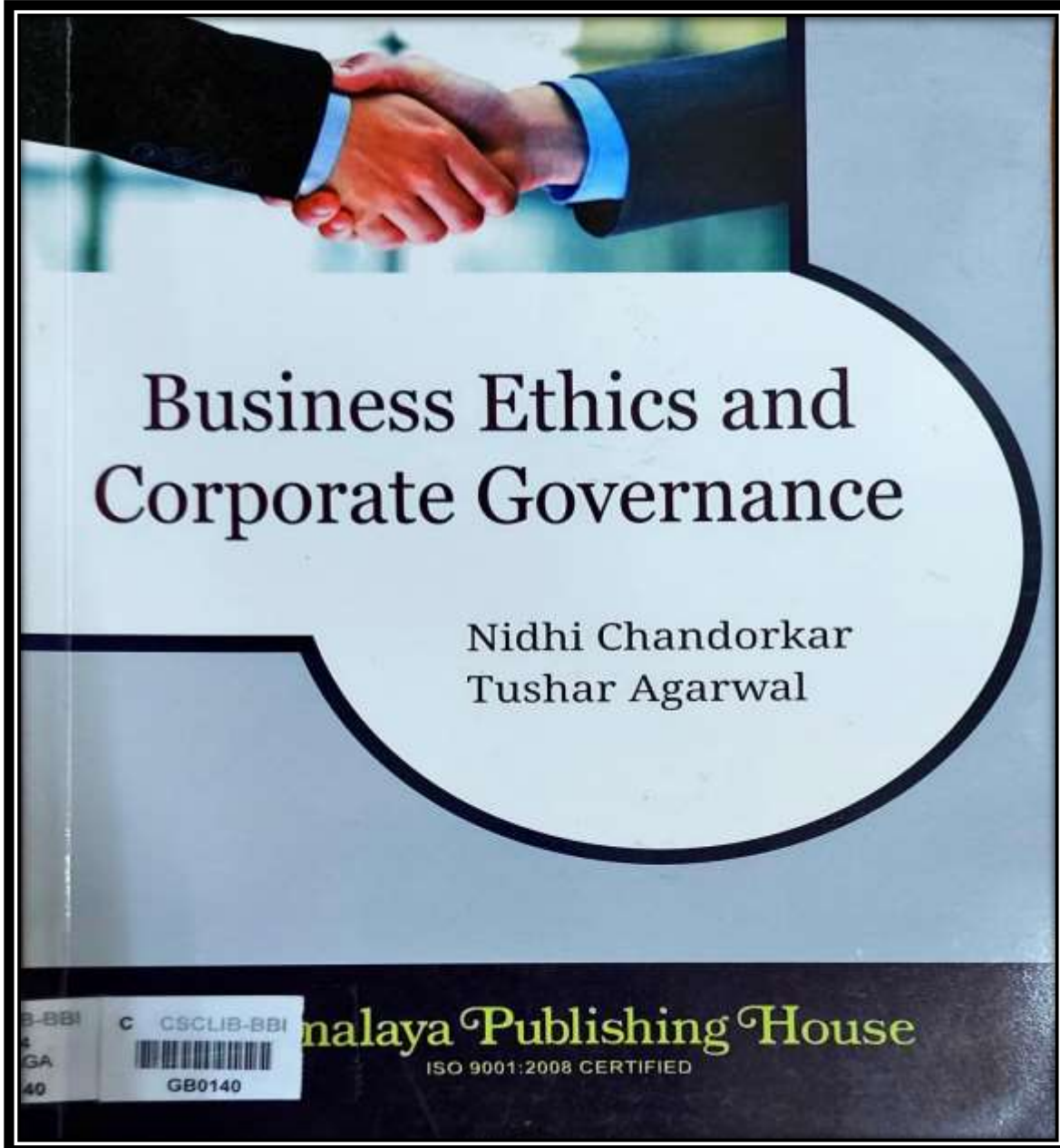
Himalaya Publishing House

ISO 9001:2015 CERTIFIED


I/C PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020




VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020




VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

CONTENTS

Chapter 1	
Introduction to Business Ethics	1 - 17
Chapter 2	
Application of Ethical Theories in Business	18 - 28
Chapter 3	
Introduction to Corporate Governance	29 - 61
Chapter 4	
Genesis and Implementation of Corporate Governance in India	62 - 87
Chapter 5	
Global Scenario Business Ethics in Global Economy	88 - 101


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

Business Ethics and Corporate Governance

(As per the New Syllabus 2018-19 of Mumbai University for BBI, Semester V)

1744
CHAIAGA
GB0140



Nidhi Chandorkar

NET, MBA (HRM),
HOD – Department of Management Studies,
S.M. Shetty College of Science, Commerce
and Management Studies, Powai.

Tushar Agarwal

SET, Ph.D. Scholar, MBA (Marketing),
MBA (Corporate Governance),
M.Com. (Management),
BMS Coordinator,
Chandrabhan Sharma College of Arts,
Science and Commerce, Powai.

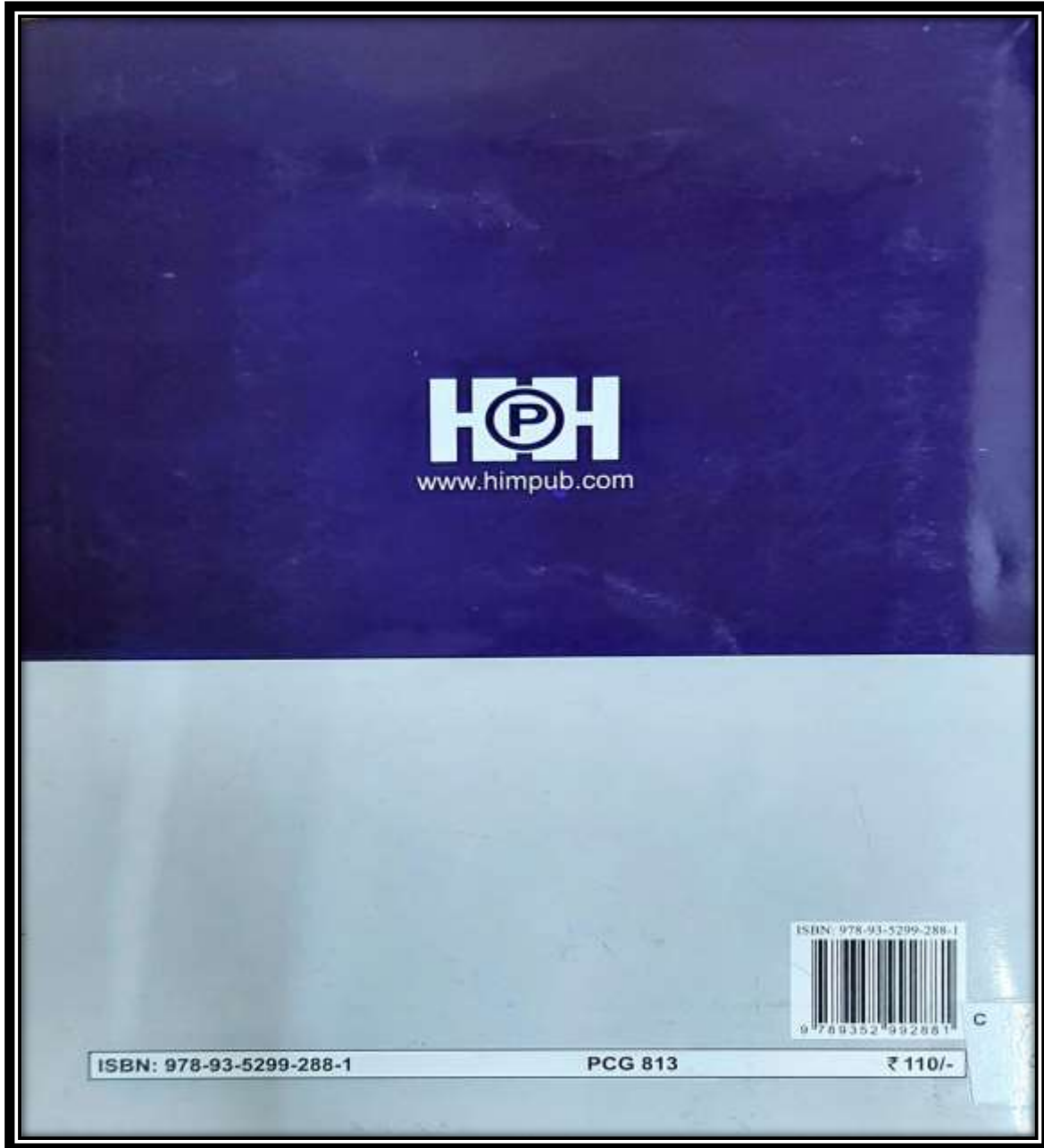
SPECIMEN COPY
For
Review & Recommendation



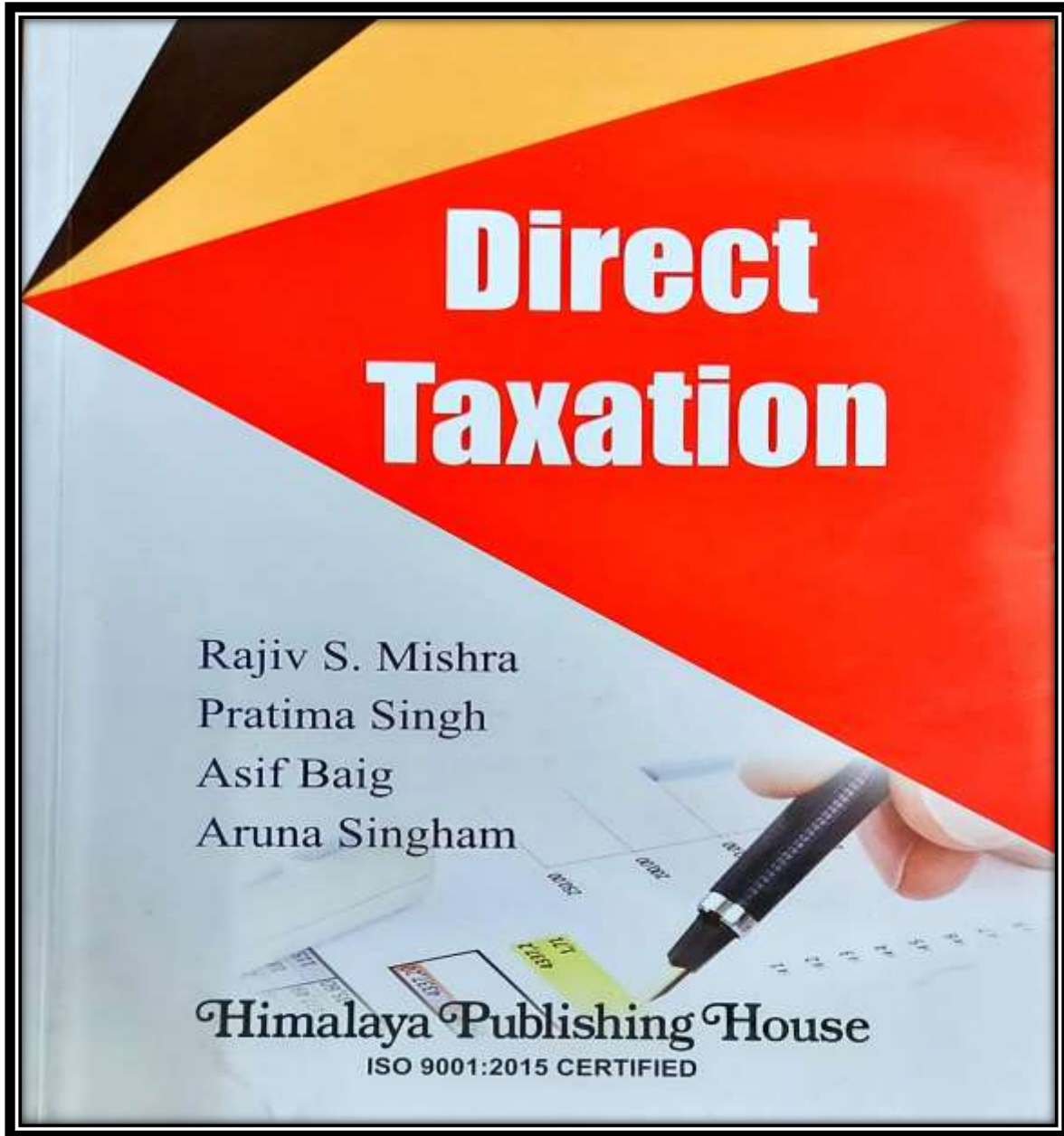
Himalaya Publishing House

ISO 9001:2008 CERTIFIED


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020




V/C PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020




V.C. PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

Contents

1. Introduction and Definition	1 – 13
✦ Introduction	
✦ Definition and Meaning of Taxation	
✦ Definitions (Secs. 2 and 3)	
✦ Exhaustive vs. Inclusive Definitions	
✦ Income – Definition and Meaning	
✦ Income Includes	
✦ Exempted Income	
✦ Some Important Definitions	
2. Basis of Charge and Scope of Total Income	14 – 30
✦ Introduction	
✦ Charge of Income Tax (Sec. 4)	
✦ Classification According to Residential Status	
✦ Scope of Total Income	
3. Income Exempted from Tax	31 – 41
✦ Introduction	
✦ Incomes Not Included in Total Income	
✦ Tabular Form of Exempted Income	
4. Heads of Income	42 – 44
✦ Introduction	
✦ Heads of Income u/s 14	
✦ Importance	
✦ Expenditure Incurred with Respect to Exemption	
5. Income from Salary [Secs. 15 to 17]	45 – 76
✦ What is Salary?	
✦ What Incomes Come under Head of Salary?	
✦ What is Leave Encashment?	
✦ What is Annuity?	
✦ What is Gratuity?	


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

- ✦ What is Allowance?
- ✦ What is Perquisite?
- ✦ Different Forms of Salary and Tax Treatment
- ✦ Deductions from Salaries [u/s 16]
- 6. Income from House Property [Secs. 22 to 27] 77 - 100**
 - ✦ Introduction
 - ✦ Properties Included under the Term 'Building'
 - ✦ Basic Questions for Understanding House Property
 - ✦ Basic Charge [u/s 22]
 - ✦ Definition of Building
 - ✦ Annual Value is RLV or Actual Rent
- 7. Income from Business and Profession [Secs. 28 to 44D] 101 - 118**
 - ✦ Introduction
 - ✦ Disallowed Expenditure for Business
 - ✦ Exempted Income from Business
 - ✦ Format
 - ✦ Provisions
 - ✦ Basis of Charge [u/s 28]
 - ✦ What Conditions must be Satisfied for an Income to Fall under the Head of Income from Profits and Gains of Business?
 - ✦ What Income will be Chargeable to Income Tax under the Head 'Profits and Gains of Business or Profession'?
 - ✦ Deductions Which are Allowed in Computing Income from Profits and Gains of Business or Profession
- 8. Income from Capital Gain [Secs. 45, 48, 49, 50, 54 and 54EC] 119 - 139**
 - ✦ Capital Asset
 - ✦ Are the Gains, Arising from Sale or Transfer of Property, Subject to Income Tax?
 - ✦ What Transactions are Not Regarded as Transfers?
 - ✦ In What Circumstances are Capital Gains that Arise from the Transfer of House Property Exempt?
 - ✦ What are the Consequences if a New House is Transferred within 3 Years?


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

<ul style="list-style-type: none"> ✦ What is the Amount of Exemption Available on Capital Gains that Arise from Transfer of House Property? ✦ What is the Mode of Computation? ✦ What is the Indexed Cost of Acquisition? ✦ What is the Indexed Cost of Improvement? ✦ Is There Any Tax Shelter for Avoiding Capital Gains Tax? ✦ What is Cost Inflation Index (CII)? 	
9. Income from Other Sources [Secs. 56 to 59]	140 – 154
<ul style="list-style-type: none"> ✦ Introduction ✦ Items Included under the Head "Income from Other Sources" ✦ Things that can be Charged under Income from Other Sources is Not Listed in any Other Heads ✦ Is the Dividend Income of All Assessee Liable to Tax? ✦ What are the Deductions Allowed under the Head 'Income from Other Sources'? ✦ Income from Securities by Way of Interest ✦ Personal Expenses of Assessee 	
10. Deductions to be Made in Computing Total Income	155 – 178
<ul style="list-style-type: none"> ✦ Deduction vs. Exemption ✦ Tabular Format of All Applicable Deductions ✦ Tax upon Clubbing Total Income ✦ Avoiding Double Taxation ✦ Filing Tax Returns 	
11. Computation of Total Income for Individual	179 – 203
<ul style="list-style-type: none"> ✦ Introduction ✦ Format for Computation of Total Income 	


V/C PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

Direct Taxation

[As per the Revised Syllabus 2019-20 of Mumbai University for
B.Com. (Semester V) & BAF (Semester III)]

Rajiv S. Mishra

M.Com., MBA, M.Phil., UGC-NET, Ph.D. (Pursuing),
Recognised IIG Professor by University of Mumbai,
Assistant Professor in BBI & Co-ordinator, M.Com.,
N.E.S. Ratnam College of Arts, Science and Commerce,
Bhandup (W), Mumbai - 400 078.
Visiting Faculty at N.G. Acharya, D.K. Marathe, V.K. Menon College, Pragati College,
Chandrabhan Sharma College, Dnyansadhana College and Vikas College
for M.Com., BBI, BMS, BFM and BAF.

Dr. Pratima Singh

M.Com., M.Phil., B.Ed., Ph.D.
I/C Principal,
Chandrabhan Sharma College, Powai.

Dr. Asif Baig

M.Com., B.Ed., M.Phil., MBA, NET, Ph.D.
HOD, Accounts at Gurukul College, Ghatkopar &
Visiting Faculty at NES Ratnam College for M.Com.

Dr. Aruna Singham

M.Com., M.Phil., Ph.D.
Assistant Professor, S.K. Somaiya Degree College of
Arts, Science & Commerce
Vidyavihar, Mumbai.



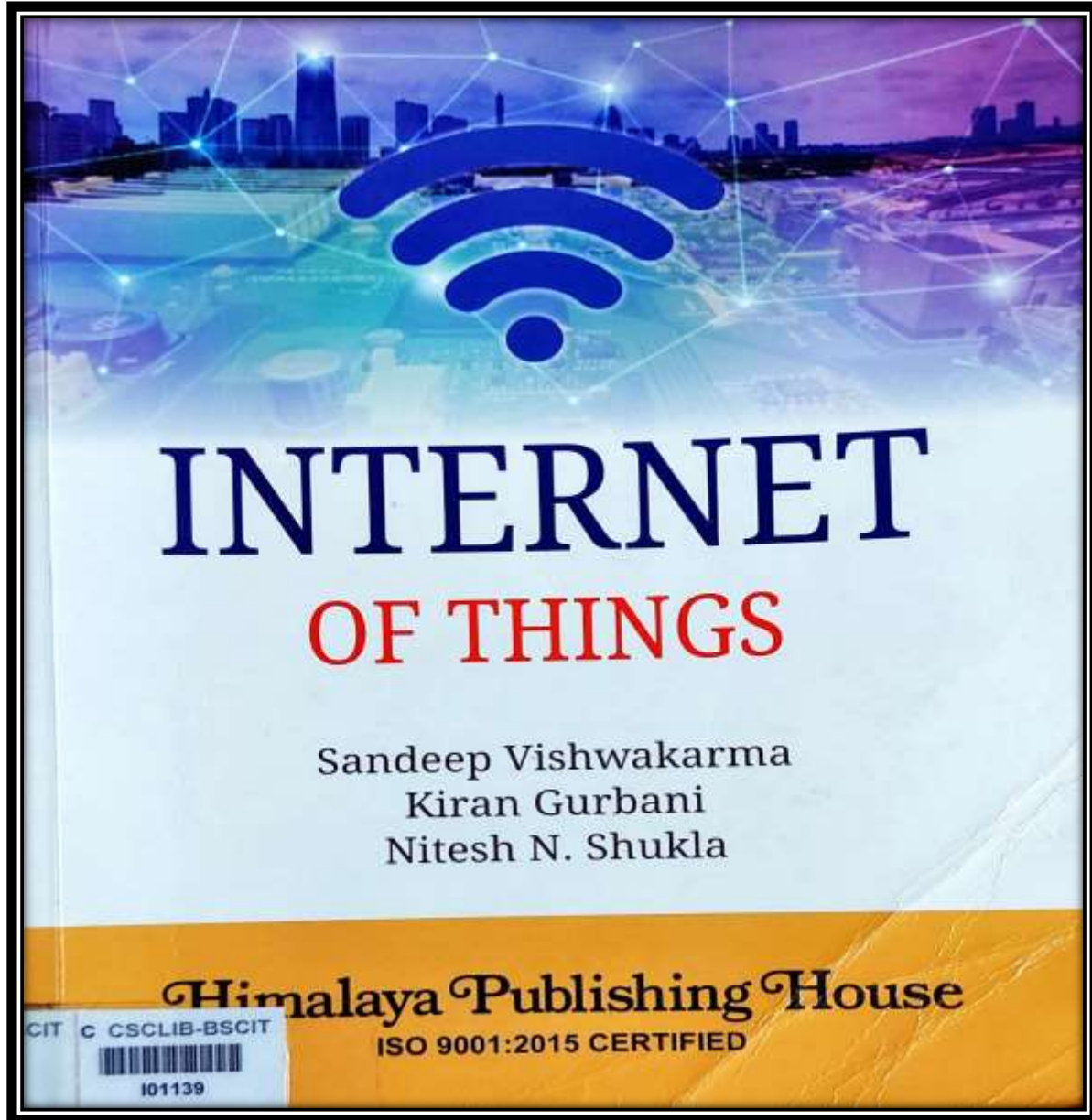
Himalaya Publishing House

ISO 9001:2015 CERTIFIED


I/C PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020




V/C PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

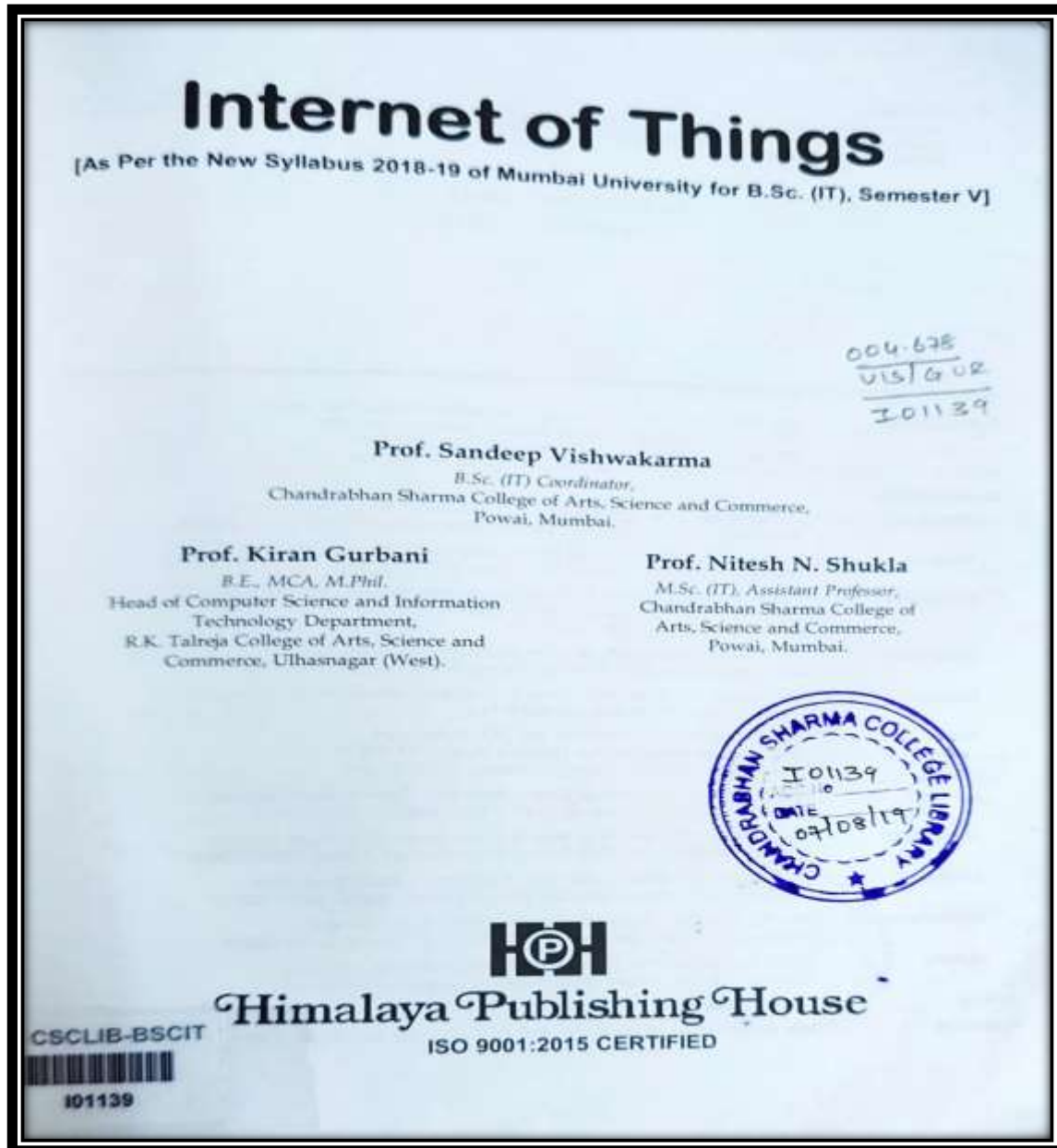



VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

CONTENTS

Sr. No.	Modules/Units	Page No.
Unit - I		
1	The Internet of Things: An Overview	1 – 10
2	Design Principles for Connected Devices	11 – 30
3	Internet Principles	31 – 53
Unit - II		
4	Thinking About Prototyping	54 – 77
5	Prototyping Embedded Devices	78 – 133
Unit - III		
6	Prototyping the Physical Design	134 – 150
7	Prototyping Online Components	151 – 172
Unit - IV		
8	Techniques for Writing Embedded Code	173 – 184
9	Business Model	185 – 198
Unit - V		
10	Moving to Manufacture	199 – 214
11	Ethics	215 – 225
	Appendix-I Know the Differences	226 – 232
	Appendix-II Know the Inventory	233 – 245
	Internet of Things Practicals	246 – 344


VC PRINCIPAL
 Chandrabhan Sharma College
 of Arts, Commerce & Science
 Powai-Vihar, Powai, Mumbai - 400 076.
 Tel. 022-45266020




VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

ABOUT THE AUTHORS



Prof. Sandeep Vishwakarma is currently Head of Department of Chandrabhan Sharma College of Science, Arts and Commerce. He has more than 15 years of experience in teaching and 2 years of industry experience. He has been teaching various technologies — OOPS, Advanced Java, Linux Admin, Software Engineering, DBMS, ORACLE, C Programming, Data Structure, Operating System, Logical Discrete Mathematics, C# and Internet Technologies. He is a Visiting Faculty for M.Sc. (IT/CS) and MMS.

He has published books on Fundamental of Digital Computing, Java and Data Structure, Web Programming, Core Java, Advanced Java and Data Structures.



Prof. Kiran Gurbani is currently Head of Computer Science Department of R.K. Talreja College of Arts, Science and Commerce. Overall 18+ years of experience as a Trainer/Academic In-charge/SME on varied technology platform. She is a Professor from last 18 years for various technologies, Object Oriented C++, Java, Visual Basic, DoT Net (VB.NET & ASP.NET), Unix Shell Scripting, Linux Administration, Oracle, SQL, Cloud Computing, Virtualization and Cloud Management, Web Technologies, Software Engineering, Software Testing, JBOSS and Web Logic, Parallel and Distributed Computing, ADBMS, C#, CCNA and Internet Technologies.

She is freelancer corporate trainer for the companies Capgemini, Oracle, e-Edge and Seed. She is a Guest faculty for ICWA, MMS Systems and Technologies and M.Sc. Computer Science and Information Technology.

She has published books on Visual Basic, C++ Programming, Linux Operating System, Java and Data Structures, Linux Administration, Imperative Programming and Web Programming.

Forthcoming Book:

Big Data Analytics (Reference Book)

She has published several papers:

(1) Different ICT Devices, (2) Problems Faced by Women in Career Building, (3) Different Mechanisms of Cloud Storage, (4) OpenStack Private Cloud with GitHub and (5) Probabilistic Independence Virtualization Database with NOSQL Database System Analysis in Bigdata.

She is Reviewer and Editor of IT/CS Books for Himalaya Publishing House.



Prof. Nitesh Shukla is currently working as an Assistant Professor for B.Sc. (IT) in Chandrabhan Sharma College of Arts, Science & Commerce, Powai, Mumbai. He has in all 3 years of teaching experience. He has completed his graduation and post-graduation in Information Technology. He has been teaching various technologies like Operating System, Embedded System, C++ Programming, Java, ASP.Net with C#, Database Management System, Cloud Technology, Computer Graphics, Virtualization, Ethical Hacking and Internet of Things. He is Visiting Faculty for M.Sc. (IT). He has published paper on the topic "Centralized Enterprise Resources using System Center Configuration Manager 2012" in international journal. He has completed Certification course for VCP-DCV (VMWare Certified Professional and Data Center Virtualization).

www.himpub.com

ISBN: 978-93-5299-445-8



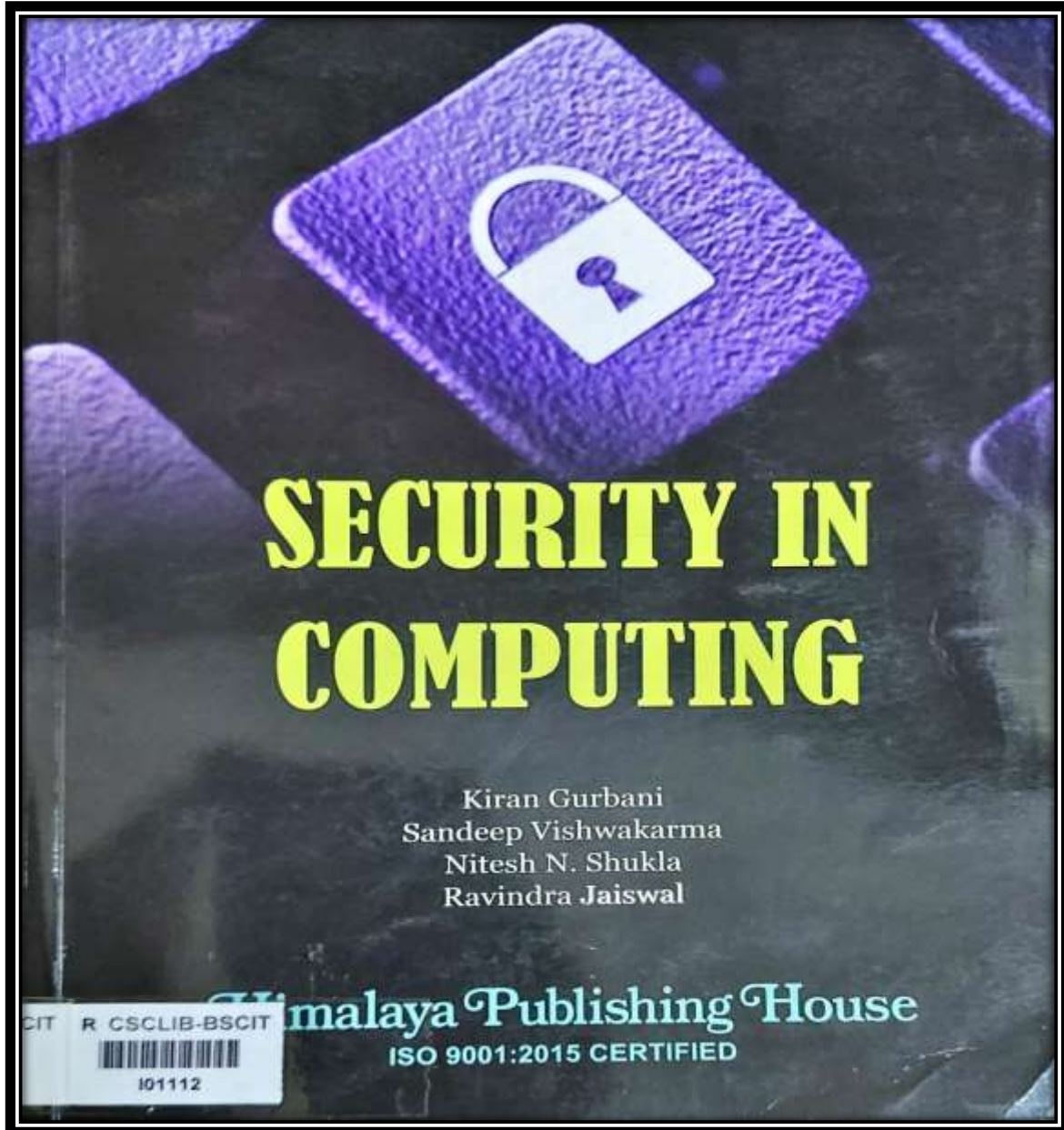
9 789352 994458

ISBN: 978-93-5299-445-8

PSM 771

₹ 340/-

VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020




V/C PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

SECURITY IN COMPUTING

[As Per the New Syllabus 2018-19 of Mumbai University for B.Sc. (IT), Semester VI]

Prof. Kiran Gurbani

B.E., MCA, M.Phil.
Head of Computer Science and Information Technology Department,
R.K. Talreja College of Arts, Science and Commerce, Ulhasnagar (West).

Prof. Sandeep Vishwakarma

B.Sc. (IT) Coordinator,
Chandrabhan Sharma College of
Arts, Science and Commerce,
Powai, Mumbai.

Prof. Nitesh N. Shukla

M.Sc. (IT), Assistant Professor,
Chandrabhan Sharma College of
Arts, Science and Commerce,
Powai, Mumbai.

Ravindra Jaiswal

Lecturer, B.Sc. (CS & IT) Department,
SST College of Arts, Science and Commerce,
Ulhasnagar - 5.

0058
GUR/VIS
I0112



R CSCLIB-BSCIT



I0112

Himalaya Publishing House

ISO 9001:2015 CERTIFIED


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

ABOUT THE AUTHORS



Prof. Kiran Gurbahl is currently Head of Computer Science Department of R.K. Talreja College of Arts, Science and Commerce. Overall 18+ years of experience as a Trainer/Academic In-charge/SME on varied technology platform. She is a Professor from last 18 years for various technologies, Object Oriented C++, Java, Visual Basic, DoT NoJ (VB.NET & ASP.NET), Unix Shell Scripting, Linux Administration, Oracle, SQL, Cloud Computing, Virtualization and Cloud Management, Web Technologies, Software Engineering, Software Testing, JBOSS and Web

Logic, Parallel and Distributed Computing, ADBMS, C#, CCNA and Internet Technologies.

She is freelancer corporate trainer for the companies Capgemini, Oracle, e-Edge and Seed. She is a Guest faculty for ICWA, MMS Systems and Technologies and M.Sc. Computer Science and Information Technology.

She has published books on Visual Basic, C++ Programming, Linux Operating System, Java and Data Structures, Linux Administration, Imperative Programming and Web Programming.

Forthcoming Book:

Big Data Analytics (Reference Book)

She has published several papers:

(1) Different ICT Devices, (2) Problems Faced by Women in Career Building, (3) Different Mechanisms of Cloud Storage, (4) OpenStack Private Cloud with GitHub and (5) Probabilistic Independence Virtualization Database with NOSQL Database System Analysis in Bigdata.

She is Reviewer and Editor of IT/CS Books for Himalaya Publishing House.



Sandeep Vishwakarma is currently Head of Department of IT at Chandrabhan Sharma College of Science, Arts and Commerce. He has more than 12 years of experience in teaching and 2 years of industry experience. He has been teaching various technologies - OOPS, Advanced Java, Linux Admin, Software Engineering, DBMS, ORACLE, C Programming, Data Structure, Operating System, Logical Discrete Mathematics, C# and Internet Technologies.

He is visiting Faculty for MSc(IT/CS) and MMS.

He has published book on Fundamental of Digital Computing, Java and Data Structure, Advanced Java, Web Programming, Core Java, Data Structures, Enterprise Java, Internet of Things and Software Testing.



Nitesh Shukla is currently working as an Assistant Professor for B.Sc. (IT) in Chandrabhan Sharma College of Arts, Science & Commerce, Powai, Mumbai. He has in all 3 years of teaching experience. He has completed his graduation and post-graduation in Information Technology. He has been teaching various technologies like Operating System, Embedded System, C++ Programming, Java, ASP.Net with C#, Database Management System, Cloud Technology, Computer Graphics, Virtualization, Ethical Hacking and Internet of Things. He is Visiting Faculty for M.Sc. (IT). He

has published paper on the topic "Centralized Enterprise Resources using System Center Configuration Manager 2012" in international journal. He has completed Certification course for VCP-DCV (VMWare Certified Professional and Data Center Virtualization).



Prof. Ravindra Jaiswal is currently working at SST College of Arts, Science and Commerce, Uthasagar. He has more than 7 years of experience in teaching. He has been teaching various technologies - PHP, SQL, Web Programming, Software Engineering Programming, Project Management, Software Testing, OOPs, Advanced Java, Computer Graphics, Digital Signal System, DIP, Speech Recognition, Robotics, ACN and AI.

www.himpub.com

ISBN: 978-93-5299-704-6

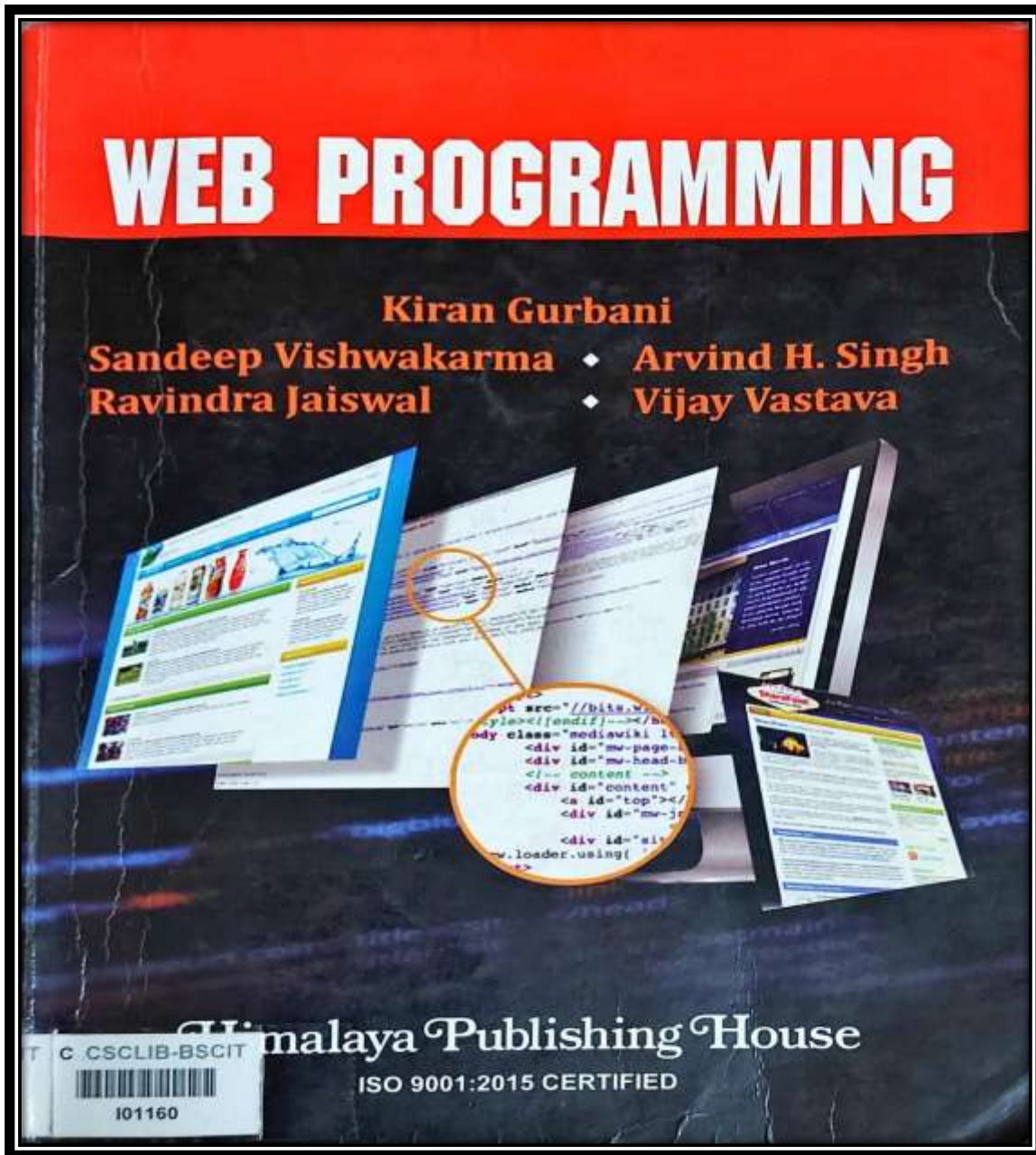


ISBN: 978-93-5299-704-6

PSM 784

₹ 375/-

VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020



AS
VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

CONTENTS

UNIT I

1. Internet and the World Wide Web	1 – 21
2. HTML5	22 – 51

UNIT II

3. Page Layout and Navigation	52 – 70
4. Tables, Forms and Media	71 – 126

UNIT III

5. Java Script	127 – 155
----------------	-----------

UNIT IV

6. PHP	156 – 187
--------	-----------

UNIT V

7. Advanced PHP and MySQL	188 – 206
---------------------------	-----------

PRACTICALS

Practical 1	207 – 222
Practical 2	223 – 232
Practical 3 & 4	233 – 254
Practical 5	255 – 263
Practical 6	264 – 266
Practical 7	267 – 268
Practical 8	269 – 275
Practical 9	276 – 277
Model Question Paper	278 – 278


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

Web Programming

(As per the Syllabus 2016-17 of Mumbai University for B.Sc. (IT), Semester II)

005
Gup/Vic
101160



Prof. Kiran Gurbani

B.E., MCA, M.Phil.,
Head of Computer Science Department,
R.K. Talreja College of Arts, Science & Commerce,
Ulhasnagar - 3.

Prof. Sandeep Vishwakarma

B.Sc. (IT) Co-ordinator,
Chandrabhan Sharma College of Arts,
Science & Commerce, Powai, Mumbai.

Prof. Ravindra Jaiswal

Lecturer, B.Sc. (CS & IT) Department,
SST College of Arts, Science & Commerce,
Ulhasnagar - 5.

Prof. Arvind Harendra Singh

Lecturer, B.Sc. (IT) Department,
Chandrabhan Sharma College of Arts,
Science & Commerce, Powai, Mumbai.

Prof. Vijay Vastava

MCA,
Professor, B.Sc. (CS & IT) Department,
K.M. Agrawal College of Arts,
Science & Commerce, Kalyan.



Himalaya Publishing House

ISO 9001:2015 CERTIFIED

C CSCLIB-BSCIT



101160


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

ABOUT THE AUTHORS



Prof. Kiran Gurbani is currently Head of Computer Science Department of R.K. Talreja College of Arts, Science & Commerce. Overall 18+ years of experience as a Trainer/Academic In-charge/SME on varied technology platform. She is a professor from last 18 years for various technologies, object oriented C++, Java, Visual Basic, Dot Net (VB.NET & ASP.NET), Unix Shell Scripting, Linux Administration, Oracle, SQL, Cloud Computing, Virtualization and Cloud Management, Web Technologies, Software Engineering, Software Testing, JBOSS & Web Logic, Parallel and Distributed Computing, ADHMS, C#, CCNA and Internet Technologies.

She is freelancer corporate trainer for the companies Capgemini, Oracle, e-Edge and Seed. She is a Guest faculty for ICWA, MMS Systems and Technologies and M.Sc. Computer Science and Information technology.

She published books on Visual Basic, C++ Programming, Linux Operating System, Java & Data Structures, Linux Administration, Imperative Programming and Web Programming.

Forthcoming Books

Big Data Analytics (Reference Book)

She has published several papers

(1) Different ICT Devices, (2) Problems faced by women in career-building, (3) Different mechanisms of Cloud Storage, (4) OpenStack private cloud with GitHub and (5) Probabilistic independence virtualization database with NOSQL database system analysis in Bigdata.

She is Reviewer and Editor of IT/CS Books for Himalaya Publishing House.



Prof. Sandeep Vishwakarma is currently Head of Department of Chandrabhan Sharma College of Science, Arts and Commerce. He has more than 12 years of experience in teaching and 2 years industry experience. He has been teaching various technologies OOPS, Advanced Java, Linux Admin, Software Engineering, DBMS, ORACLE, C Programming, Data Structure, Operating System, Logical Discrete Mathematics, C# and Internet Technologies.

He is visiting faculty for M.Sc. (IT/CS) and MMS.

He has published book on Fundamental of Digital Computing, Java and Data Structure and Advanced Java.



Prof. Arvind Singh is currently working at Chandrabhan Sharma College of Arts, Science and Commerce, Powai, Mumbai - 76. He has more than 10 years of experience in teaching and 1 year of industry experience. He has been teaching various technologies-PHP, SQL, Web Programming, Software Engineering, C Programming, Project Management and Software Testing.

He has published a book on Software Testing.



Prof. Ravindra Jaiswal is currently working at SST College of Arts, Science and Commerce, Ujhasnagar - 5. He has more than 7 years of experience in teaching. He has been teaching various technologies-PHP, SQL, Web Programming, Software Engineering Programming, Project Management, Software Testing, OOPS, Advanced Java, Computer Graphics, Digital Signal System, DIP, Speech Recognition, Robotics, ACN and AI.



Mr. Vijay Vastava is a Assistant Professor in K.M. Agrawal College of Arts, Commerce and Science, Kalyan from last 11 years. He completed his MCA degree, PGD&SA from Mumbai University and Microsoft Certified Professional (MCP) course conducted by Microsoft Corp.

Mr Vijay Vastava is leading project guide for final year students of Under Graduate students for .NET, Java, Android, VB, C# and Web Development projects.

Paper Publication

(1) Role of ICTS in Creating Awareness about Human Rights, (2) A Study of Social Networking in Education and Society, (3) Biometric and its Applications in Different Areas of Science and (4) Skill Development under Make in India.

Book Published

Programming with Python - II, P.Y. CS

www.himpub.com



ISBN: 978-93-5273-018-6

PSM 662

₹ 298/-

AS

VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

ENTERPRISE JAVA



Kiran Gurbani
Sandeep Vishwakarma
Shaikh Ahtesham Arif
Gauravi Desai

CIT

C CSCLIB-BSCIT



101040

malaya Publishing House

ISO 9001:2015 CERTIFIED


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

CONTENTS

Sr. No.	Modules/Units	Page No.
Unit - I		
1	Understanding Java EE	1 – 10
2	Java EE Architecture, Server and Containers	11 – 19
3	Introduction to Java Servlets	20 – 26
4	Servlet API and Life cycle	27 – 42
5	Working with Servlets	43 – 57
6	Working with Database	58 – 75
Unit - II		
7	RequestDispatcher	76 – 79
8	Cookies	80 – 86
9	Sessions	87 – 95
10	Working with Files	96 – 113
11	Working with Non-blocking I/O	114 – 133
Unit - III		
12	Introduction to Java Server Pages	134 – 147
13	Getting Started with Java Server Pages	148 – 171
14	Actions Elements	172 – 178
15	Implicit Objects, Scope and EL Expressions	179 – 188
16	Java Server Pages Standard Tag Libraries	189 – 209
Unit - IV		
17	Introduction to Enterprise JavaBeans	210 – 219
18	Working with Session Beans	220 – 233
19	Working with Message-driven Beans	234 – 236
20	Interceptors	237 – 245
21	Java Naming and Directory Interface	246 – 251


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

Unit - V		
22	Persistence, Object/Relational Mapping and JPA	252 – 259
23	Introduction to Java Persistence API	260 – 265
24	Writing JPA Application	266 – 282
25	Introduction to Hibernate	283 – 290
26	Writing Hibernate Application	291 – 298
	Practicals	299 – 372


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

Enterprise JAVA

(As Per the New Syllabus 2018-19 of Mumbai University for B.Sc. - IT, Semester V)

Prof. Kiran Gurbani

B.E., MCA, M.Phil.

Head of Computer Science and Information Technology Department,
R.K. Talreja College of Arts, Science and Commerce, Ulhasnagar (West).

Prof. Sandeep Vishwakarma

B.Sc. (IT) Co-ordinator,
Chandrabhan Sharma College of Arts,
Science and Commerce,
Powai, Mumbai.

Prof. Shaikh Ahtesham Arif

MCA, MBA (IS)
Head of Department – IT
Anjuman-i-Islam's, Akbar Peerbhoy College,
Grant Road(E), Mumbai.

Prof. Gauravi Desai

M.Sc. Computer Science,
B.Sc.(IT), M.Sc(IT) Co-ordinator,
Wilson College,
Charni Road, Mumbai.



Himalaya Publishing House

ISO 9001:2015 CERTIFIED

C CSCLIB-BSCIT



101040


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

ABOUT THE AUTHORS



Prof. Kiran Gurbani is currently Head of Computer Science Department of R.K. Talreja College of Arts, Science and Commerce. Overall 18+ years of experience as a Trainer/Academic In-charge/SME on varied technology platform. She is a Professor from last 18 years for various technologies, Object Oriented C++, Java, Visual Basic, DoT Net (VB.NET & ASP.NET), Unix Shell Scripting, Linux Administration, Oracle, SQL, Cloud Computing, Virtualization and Cloud Management, Web Technologies, Software Engineering, Software Testing, JBOSS and Web Logic, Parallel and Distributed Computing, ADBMS, C#, CCNA and Internet Technologies.

She is freelancer corporate trainer for the companies Captergini, Oracle, e-Edge and Seed. She is a Guest faculty for ICWA, MMS Systems and Technologies and M.Sc. Computer Science and Information Technology.

She has published books on Visual Basic, C++ Programming, Linux Operating System, Java and Data Structures, Linux Administration, Imperative Programming and Web Programming.

Forthcoming Book:

Big Data Analytics (Reference Book)

She has published several papers:

(1) Different ICT Devices, (2) Problems Faced by Women in Career Building, (3) Different Mechanisms of Cloud Storage, (4) OpenStack Private Cloud with GitHub and (5) Probabilistic Independence Virtualization Database with NOSQL Database System Analysis in Bigdata.

She is Reviewer and Editor of IT/CS Books for Himalaya Publishing House.



Prof. Sandeep Vishwakarma is currently Head of Department of Chandrabhan Sharma College of Science, Arts and Commerce. He has more than 15 years of experience in teaching and 2 year industry experience. He has been teaching various technologies - OOPS, Advanced Java, Linux Admin, Software Engineering, DBMS, ORACLE, C Programming, Data Structure, Operating System, Logical-Discrete Mathematics, C# and Internet Technologies. He is a Visiting Faculty for M.Sc. (IT/CS) and MMS.

He has published books on Fundamental of Digital Computing, Java and Data Structure, Web Programming, Core Java, Advanced Java and Data Structures.



Prof. Altesham Shaikh is the Head of the Department - IT at Anjuman-i-Islam's Akbar Peerbhoy College of Commerce and Economics, Mumbai. He has done his MCA, MBA (Information System), Microsoft's MTSF and Google Certification. He is having 15 years of teaching and industry experience. He has presented and/or published 12 National and International Research Papers, including an award winning paper at the International Conference on Business Intelligence. He is associated as a Visiting Faculty with 13 colleges for B.Sc. IT, B.Sc. CS, BMS, MMS, MCA and M.Sc. IT.



Prof. Gauravi Desai is currently working as an I/C Co-ordinator in Wilson College, Charni Road. She has more than 7 years of experience in teaching. She has been teaching subjects like Enterprise Java, Imperative Programming, DBMS, OOP, Discrete Mathematics and Introduction to Embedded Systems.

She is also working as a visiting faculty for M.Sc. IT and BAF. She has published a book on Introduction to Embedded Systems for S.Y. B.Sc. IT, Semester IV.

www.himpub.com

ISBN: 978-93-5299-376-5



ISBN: 978-93-5299-376-5

PEE 068

₹ 298/-


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

Software Testing and Quality Assurance


I/C PRINCIPAL
Chandrabhan Sharma College
of Arts, Science & Commerce
Powai-Vihar, Powai, Mumbai - 400 076
Tel. 25704528 / 25704530

- Kiran Gurbani
- Sandeep Vishwakarma
- Anju Manral
- Archana Jadhav
- Arvind Harendra Singh

Himalaya Publishing House
ISO 9001:2015 CERTIFIED


I/C PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

Contents

Unit I

- | | | |
|----|--|---------|
| 1. | Software Testing and Introduction to Quality | 1 – 14 |
| 2. | Verification and Validation | 15 – 25 |
| 3. | Software Testing Techniques | 26 – 39 |

Unit II

- | | | |
|----|-----------------------------|---------|
| 4. | Software Testing Strategies | 40 – 44 |
| 5. | Software Metrics | 45 – 51 |
| 6. | Defect Management | 52 – 58 |

Unit III

- | | | |
|----|-----------------------------|-----------|
| 7. | Software Quality Assurance | 59 – 79 |
| 8. | Quality Improvement | 80 – 96 |
| 9. | Quality Costs | 97 – 104 |
| | Software Testing Practicals | 105 – 134 |


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

Software Testing and Quality Assurance

As per the New Syllabus of Mumbai University for T.Y.B.Sc. (Computer Science), Semester V, 2018-19

Prof. Kiran Gurbani

B.E., MCA, M.Phil
Head of Computer Science and Information Technology Department,
R.K. Talreja College of Arts, Science and Commerce,
Ulhasnagar (West).

Prof. Sandeep Vishwakarma

M.C.A., B.Sc. (IT) Co-ordinator,
Chandrabhan Sharma College of
Arts, Science and Commerce,
Powai, Mumbai.

Anju Manral

MCA (Mumbai University),
Lecturer in B.Sc. (IT/CS),
N.G. Acharya & D.K. Marathe College,
Chembur, Mumbai.

Archana Jadhav

MCS (Pune University),
Coordinator, Dept. of Computer Science,
N.G. Acharya & D.K. Marathe College,
Chembur, Mumbai.

Arvind Harendra Singh

M.Sc. (Computer Science),
Assistant Professor,
Chandrabhan Sharma College of
Arts, Science and Commerce,
Powai, Mumbai.



Himalaya Publishing House

ISO 9001:2015 CERTIFIED


V.C. PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020




VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

Accountancy and Financial Management - III

**Rajiv Mishra
Asif Baig
Pratima Singh
Nutan Lokhande
Ravindra Singh**



Himalaya Publishing House
ISO 9001:2008 CERTIFIED

Chitra

Dr. Chitra Natarajan
Principal

AS

VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

Contents

1. Partnership Final Account	1 – 46
2. Piecemeal Distribution of Cash	47 – 81
3. Amalgamation of Partnership	82 – 121
4. Conversion/Sale of a Partnership Firm into a Ltd. Company	122 – 170



Dr. Chitra Natarajan
Principal



VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

Accountancy and Financial Management – III

(As Per the Revised Syllabus of S.Y. B.Com., 2017-18, Semester III,
University of Mumbai)

Rajiv Mishra

M.Com., MBA, M.Phil., UGC-NET, Ph.D. (Pursuing),
Recognised UG Professor by University of Mumbai,
Assistant Professor in BBI & Co-ordinator, M.Com.,
N.E.S. Ratnam College of Arts, Science and Commerce,
Bhandup (W), Mumbai - 400 078.
Visiting Faculty at N.G. Acharya, D.K. Marathe, V.K. Menon College, Pragati College,
Chandrabhan Sharma College, Dnyansadhana College and Vikas College
for M.Com., BBI, BMS, BFM and BAF.

Asif Baig

M.Com., B.Ed., M.Phil., MBA, NET,
HOD (Accounts) at Gurukul College,
Ghatkopar, Mumbai.

Nutan Lokhande

M.Com., NET,
Lecturer, N.E.S. Ratnam College of
Arts, Science and Commerce,
Bhandup (W), Mumbai - 400 078.

Pratima Singh

M.Com., M.Phil., B.Ed.,
Vice Principal & HOD,
Accounts Department,
Chandrabhan Sharma College, Mumbai.

Ravindra Singh

M.Phil., MBA, M.Com., PGDFM, GDCA, NET,
Ph.D. Commerce (Pursuing)
Assistant Professor,
S.I.W.S. College of Commerce and Economics,
Wadala, Mumbai.



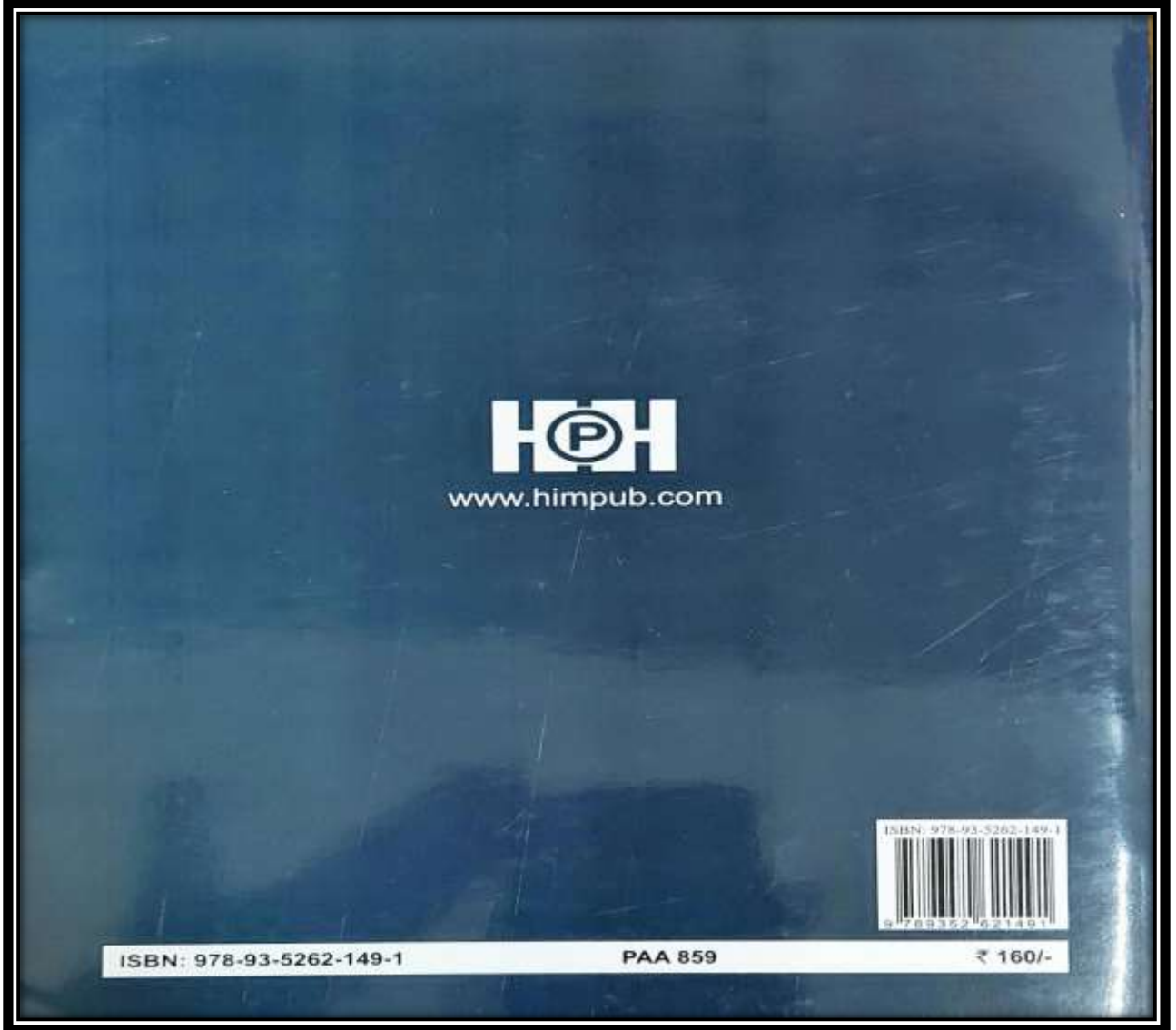
Himalaya Publishing House
ISO 9001:2008 CERTIFIED

Chitra

Dr. Chitra Natarajan
Principal

AS

VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

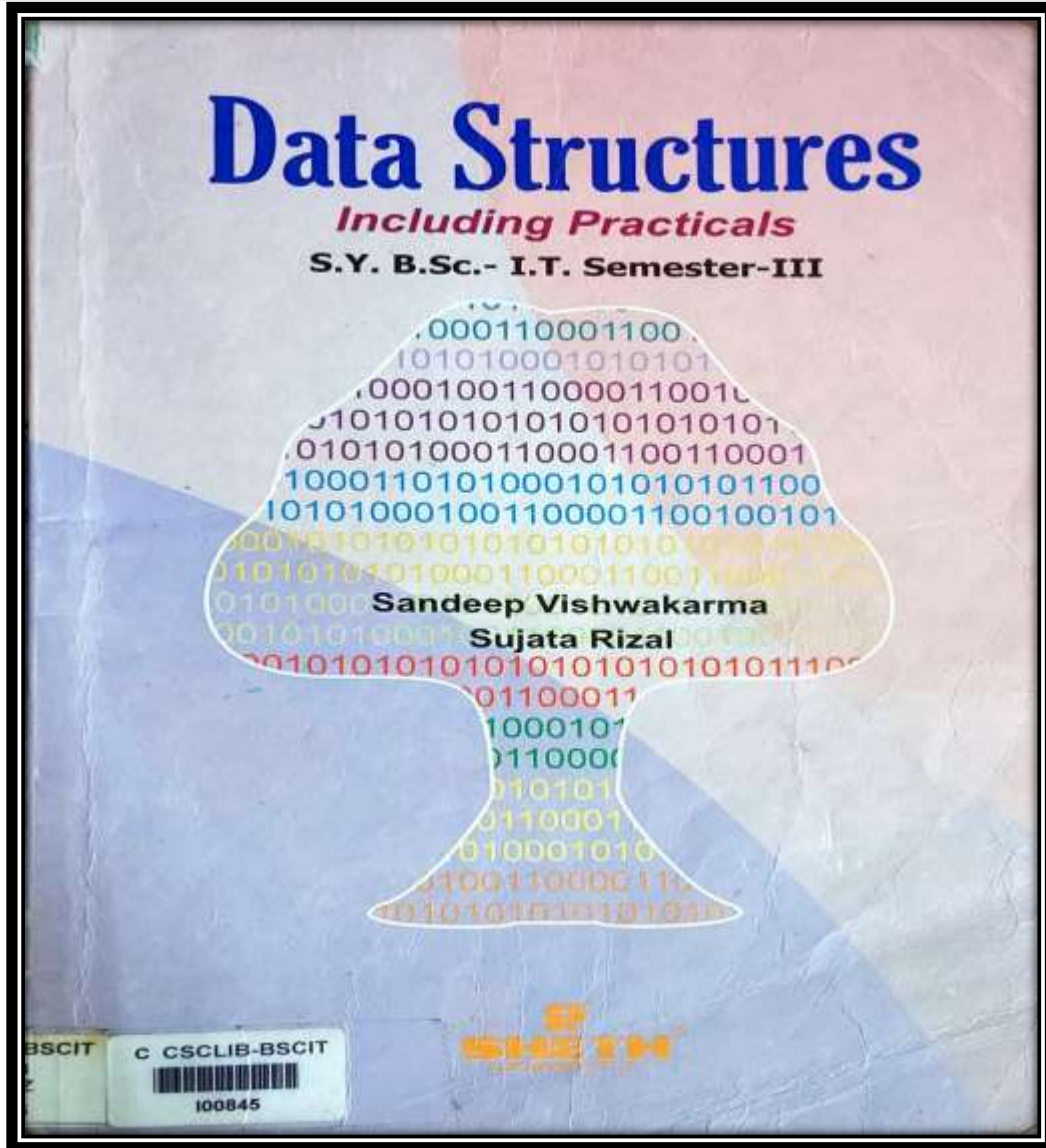


Chitra

Dr. Chitra Natarajan
Principal

SS

VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020



Chitra


Dr. Chitra Natarajan
Principal

AS

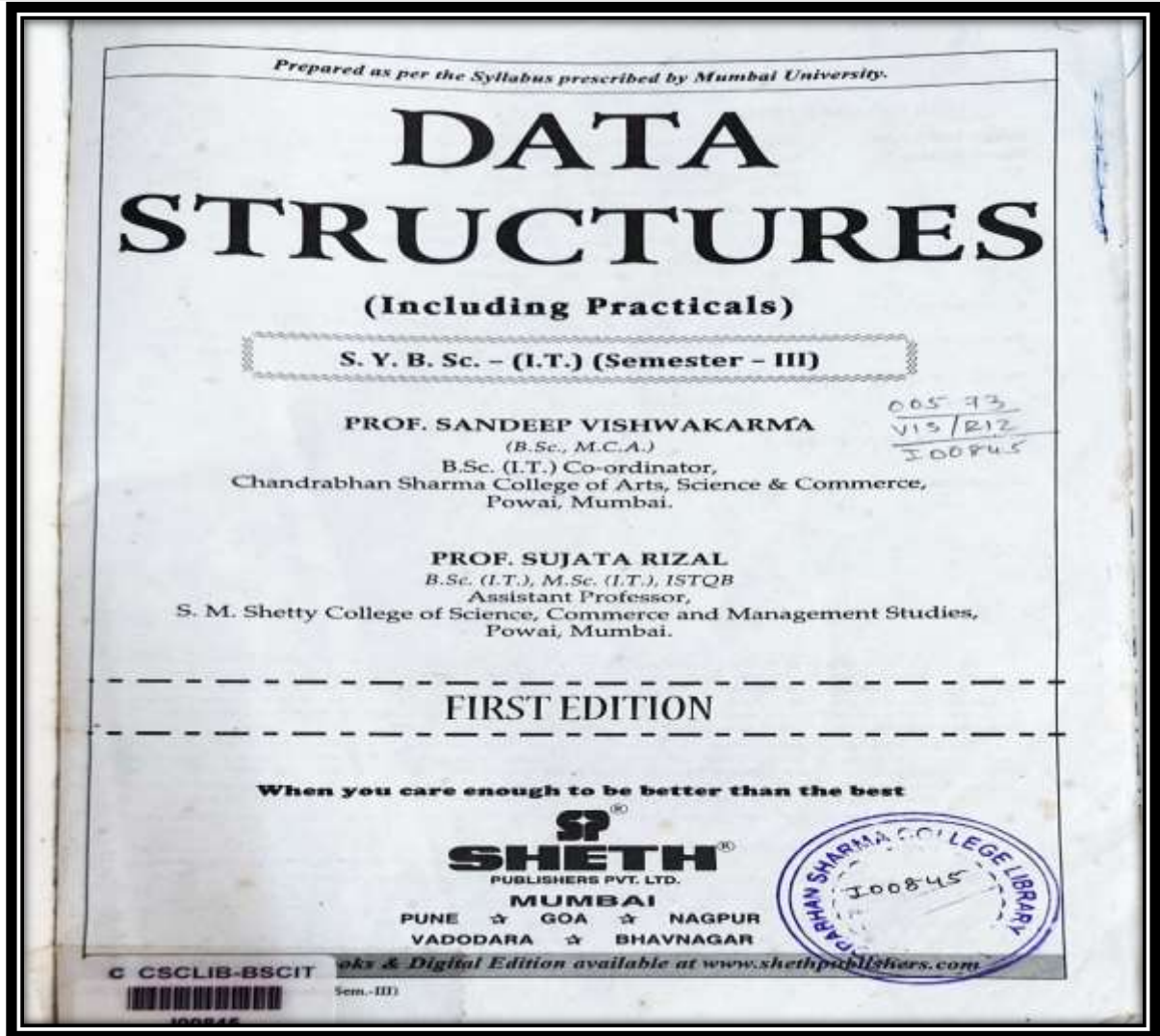
VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

CONTENTS	
UNIT - I	
1. Introduction	1 - 14
2. Array	15 - 31
UNIT - II	
3. Linked List - I	32 - 43
4. Advanced Linked List	44 - 56
UNIT - III	
5. Stack	57 - 68
6. Queue	69 - 78
UNIT - IV	
7. Sorting and Searching Techniques	79 - 92
8. Tree	93 - 120
9. Advanced Tree Structure	121 - 134
UNIT - V	
10. Hashing Techniques	135 - 145
11. Graph	146 - 165
Practicals	166 - 213
Model Question Paper	214

(ix)


Dr. Chitra Natarajan
Principal


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020



Chitra
Dr. Chitra Natarajan
Principal

Chitra
VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

About the Authors

Prof. Sandeep Vishwakarma

Sandeep Vishwakarma is currently Head of Department of Chandrabhan Sharma College of Science, Arts and Commerce. He has more than 12 Years of Experience in Teaching and 2 Year Industry Experience. He has been teaching various Technologies-OOPS, Advanced Java, Linux Admin, Software Engineering, DBMS,ORACLE,C Programming,Data Structure,Operating System, Logical Discrete Mathematics, C#, Internet Technologies.

He is visiting Faculty for MSc(IT/CS) and MMS.

He has published Book on Fundamental of Digital Computing, Java and Data Structure , Advanced Java, Web Programming.



Prof. Sujata Rizal

Sujata Rizal is currently an Assistant Professor of S.M.Shetty College of Science, Commerce and Management Studies, Powai. She has been teaching subjects like Advanced Java, DBMS, Data Structures, Operating System, Fundamentals of Digital Computing, Green Computing, Advanced SQL, Data Warehousing, Advanced Computers (SY BMM), Introduction to Computers (FY BMS), Information Technology in Accountancy (SY BAF), Information Technology (SY BBI).

She has two years of teaching experience.



Shilp No.4, Ground Floor, Laxmi Industrial Estate, 14, D.D. Ambarkar Marg, Wadala, Mumbai-400 011
Tel.: 022) 4662 4553, 4663 4554, Fax: 4663 4896, e-mail: support@shethpublishers.com



Price - ₹ 160

Books & E-books & Digital Edition available at www.shethpublishers.com

Chitra

Dr. Chitra Natarajan
Principal

AS

VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

2. Web-link of book showing ISBN number to be given by title , Author , Department / School /Division / Centre /Unit /cell , name and Year of Publication

SR. NO	Book Name	Web-link
1.	Core java	<u>https://www.himpub.com/BookDetail.aspx?BookId=4950&NB=eYZEwalLmkS3A6IE{PLUS}Av9ecNpPpy{PLUS}tdCAVnW9619IYmzrxvsJI7nb1cGzDrU//7llhgTK6r68MVoqgpJqZ47JDK{PLUS}p7PS5lRFgM7otgNf1bNtuzOm37jl4zKrhbzMybjI&BookTitleM=Core%20Java%20(Mumbai%20Univ)</u>
2.	Accountancy and Financial Management – I	<u>https://www.schoolchamp.net/data-structures-sem-3-sybsc-it-sheth-publication</u>
3.	Security in computing	<u>https://www.himpub.com/BookDetail.aspx?BookId=5465&NB=eYZEwalLmkS3A6IE{PLUS}Av9ecNpPpy{PLUS}tdCAVnW9619IYmzrxvsJI7nb1cGzDrU//7llhgTK6r68MVoqgpJqZ47JDK{PLUS}p7PS5lRFgM7otgNf1bNtuzOm37jl4zKrhbzMybjI&BookTitleM=Security%20in%20Computing%20(Mumbai%20Univ)</u>
4.	Web programming	<u>https://www.himpub.com/BookDetail.aspx?BookId=4734&NB=eYZEwalLmkS3A6IE{PLUS}Av9ecNpPpy{PLUS}tdCAVnW9619IYmzrxvsJI7nb1cGzDrU//7llhgTK6r68MVoqgpJqZ47JDK{PLUS}p7PS5lRFgM7otgNf1bNtuzOm37jl4zKrhbzMybjI&BookTitleM=Web%20Programming%20(Mumbai%20Univ)</u>


VC PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020

5.	Enterprise java	https://www.himpub.com/Searchresult.aspx?NB=eYZEwalLmkS3A6IE{PLUS}Av9ecNpPpy{PLUS}tdCAVnW9619IYmzrxvsJI7nb1cGzDrU//7llhgTK6r68MVoqgpJqZ47JDK{PLUS}p7PS5lfRFgM7otgNf1bNtuzQm37j14zKrhbzMybjI&type=ISBN&searchtext=978-93-5299-376-5
6.	Software testing	https://www.himpub.com/Searchresult.aspx?NB=eYZEwalLmkS3A6IE{PLUS}Av9ecNpPpy{PLUS}tdCAVnW9619IYmzrxvsJI7nb1cGzDrU//7llhgTK6r68MVoqgpJqZ47JDK{PLUS}p7PS5lfRFgM7otgNf1bNtuzQm37j14zKrhbzMybjI&type=ISBN&searchtext=978-93-5299-420-5


V/C PRINCIPAL
Chandrabhan Sharma College
of Arts, Commerce & Science
Powai-Vihar, Powai, Mumbai - 400 076.
Tel. 022-45266020