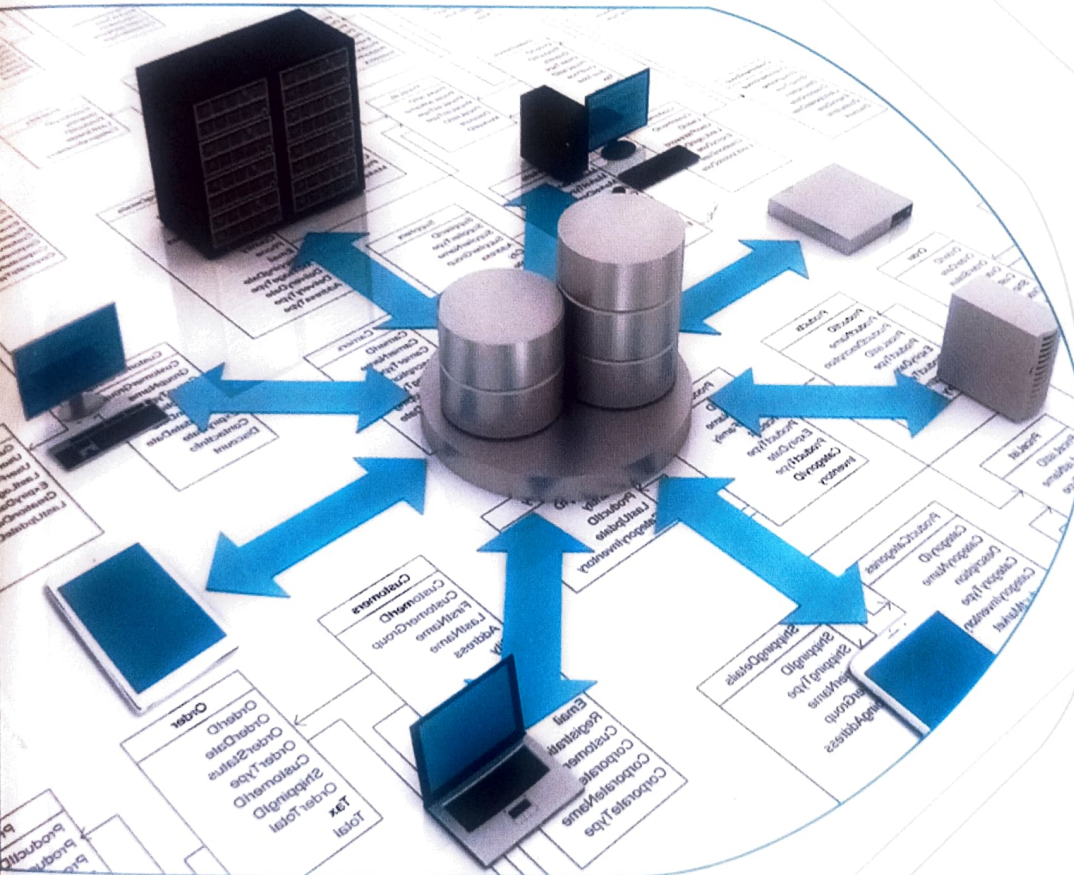


F.Y.B.C.A. SCIENCE : SEMESTER-II

NEW SYLLABUS
CBCS PATTERN

DATABASE MANAGEMENT SYSTEMS-I

ABHIJEET D. MANKAR



Author Copy.

SPPU New Syllabus

A Book Of
DATABASE
MANAGEMENT
SYSTEMS-I

For B.C.A.(Science) : Semester - II

[Course Code BCA124 : Credit - 04]

CBCS Pattern

As Per Revised Syllabus, Effective from June 2019

ABHIJEET D. MANKAR

M.C.S., SET
Assistant Professor,
Department of Computer Science,
Tuljaram Chaturchand College of Arts,
Science and Commerce (Autonomous),
BARAMATI.

Price ₹ 160.00

 **NIRALI**
PRAKASHAN
ADVANCEMENT OF KNOWLEDGE




Principal
Tuljaram Chaturchand College
Baramati

N5114

First Edition : November 2019**© : Author**

The text of this publication, or any part thereof, should not be reproduced or transmitted in any form or stored in any computer storage system or device for distribution including photocopy, recording, taping or information retrieval system or reproduced on any disc, tape, perforated media or other information storage device etc., without the written permission of Author with whom the rights are reserved. Breach of this condition is liable for legal action.

Every effort has been made to avoid errors or omissions in this publication. In spite of this, errors may have crept in. Any mistake, error or discrepancy so noted and shall be brought to our notice shall be taken care of in the next edition. It is notified that neither the publisher nor the author or seller shall be responsible for any damage or loss of action to any one, of any kind, in any manner, therefrom.

Published By :**NIRALI PRAKASHAN**

Abhyudaya Pragati, 1312, Shivaji Nagar,

Off J.M. Road, Pune - 411005

Tel - (020) 25512336/37/39, Fax - (020) 25511379

Email : niralipune@pragationline.com

Polyplate**Printed By :****YOGIRAJ PRINTERS AND BINDERS**

Survey No. 10/1A, Ghule Industrial Estate

Nanded Gaon Road

Nanded, Pune - 411041

Mobile No. 9404233041/9850046517

> DISTRIBUTION CENTRES**PUNE**

Nirali Prakashan : 119, Budhwar Peth, Jogeshwari Mandir Lane, Pune 411002, Maharashtra
(For orders within Pune) Tel : (020) 2445 2044; Mobile : 9657703145
Email : niralilocal@pragationline.com

Nirali Prakashan : S. No. 28/27, Dhayari, Near Asian College Pune 411041
(For orders outside Pune) Tel : (020) 24690204; Mobile : 9657703143
Email : bookorder@pragationline.com

MUMBAI

Nirali Prakashan : 385, S.V.P. Road, Rasdhara Co-op. Hsg. Society Ltd.,
Girgaum, Mumbai 400004, Maharashtra; Mobile : 9320129587
Tel : (022) 2385 6339 / 2386 9976, Fax : (022) 2386 9976
Email : niralimumbai@pragationline.com

> DISTRIBUTION BRANCHES**JALGAON**

Nirali Prakashan : 34, V. V. Golani Market, Navi Peth, Jalgaon 425001, Maharashtra,
Tel : (0257) 222 0395, Mob : 94234 91860; Email : niralijalgaon@pragationline.com

KOLHAPUR

Nirali Prakashan : New Mahadvar Road, Kedar Plaza, 1st Floor Opp. IDBI Bank, Kolhapur 416 012
Maharashtra. Mob : 9850046155; Email : niralikolhapur@pragationline.com

NAGPUR

Nirali Prakashan : Above Maratha Mandir, Shop No. 3, First Floor,
Rani Jhanshi Square, Sitabuldi, Nagpur 440012, Maharashtra
Tel : (0712) 254 7129; Email : niralinagpur@pragationline.com

DELHI

Nirali Prakashan : 4593/15, Basement, Agarwal Lane, Ansari Road, Daryaganj
Near Times of India Building, New Delhi 110002 Mob : 08505972553
Email : niralidelhi@pragationline.com

BENGALURU

Nirali Prakashan : Maitri Ground Floor, Jaya Apartments, No. 99, 6th Cross, 6th Main,
Malleswaram, Bengaluru 560003, Karnataka; Mob : 9449043034
Email : niralibangalore@pragationline.com

Other Branches : Hyderabad, Chennai

Note : Every possible effort has been made to avoid errors or omissions in this book. In spite this, errors may have crept in. Any type of error or mistake so noted, and shall be brought to our notice, shall be taken care of in the next edition. It is notified that neither the publisher, nor the author or book seller shall be responsible for any damage or loss of action to any one of any kind, in any manner, therefrom. The reader must cross check all the facts and contents with original Government notification or publications.

Contents ...

1. File Organization	1.1 - 1.19
2. Introduction to DBMS	2.1 - 2.18
3. Conceptual Design (E-R Model)	3.1 - 3.28
4. Structure of Relational Databases	4.1 - 4.17
5. SQL	5.1 - 5.44
6. Relational Database Design	6.1 - 6.30
* Bibliography	B.1 - B.1




Principal
Tujaram Chaturchand College
Baramati

SALIENT FEATURES OF THE BOOK

- Recommended, Useful Text Books for F. Y. B.C.A. Science: Semester-II
- Carefully Written, for Best of the Inputs for Students
- Prepared Strictly According to the New Syllabus
- Well Suited for the General Referencing, for Any Other Course
- Written in a Simple and Lucid Language
- All Topics Covered in Great Detail

BEST COVERAGE ON

This book on **DATABASE MANAGEMENT SYSTEMS-I** covers the following topics:

- File Organization
- Introduction to DBMS
- Conceptual Design (E-R Model)
- Structure of Relational Databases
- Relational Database Design

OUR MOST RECOMMENDED TEXT BOOKS FOR F.Y. B.C.A. SCIENCE: SEMESTER-II

- Computer Organization : Mrs. Meghana Tikhe-Palkar
Mrs. Varsha Bhagatpatil, Rahul Patil
- Advanced C Programming : Mrs. Deepali N. Bhoskar, Kamil Ajmal Khan
- Operating Systems Concepts : Dr. Sunita D. Patil, Mrs. Archana Kothawade,
Gajanan Deshmukh
- Database Management Systems-I : Abhijeet D. Mankar

BOOKS AVAILABLE AT

PRAGATI BOOK CENTER - Email: pbcpune@pragationline.com

- 157 Budhwar Peth, Opp. Ratan Talkies, Next To Balaji Mandir, Pune 411002 • **Mobile** : 9657703148
- 676/B Budhwar Peth, Opp. Jogeshwari Mandir, Pune 411002
Tel : (020) 2448 7459 • **Mobile** : 9657703147 / 9657703149
- 152 Budhwar Peth, Near Jogeshwari Mandir, Pune 411002
Mobile : 8087881795
- 28/A Budhwar Peth, Amber Chambers, Appa Balwant Chowk, Pune 411002 • **Tel** : (020) 6628 1669 • **Mobile** : 9657703142

PRAGATI BOOK CORNER - Email: niralimumbai@pragationline.com

- Indira Niwas, 111 - A, Bhavani Shankar Road, Dadar (W), Mumbai 400028.
Tel: (022) 2422 3526/6662 5254



niralipune@pragationline.com | www.pragationline.com

Also find us on  www.facebook.com/niralibooks

 @nirali.prakashan




Principal
Tuljaram Chaturchand College
Baramati