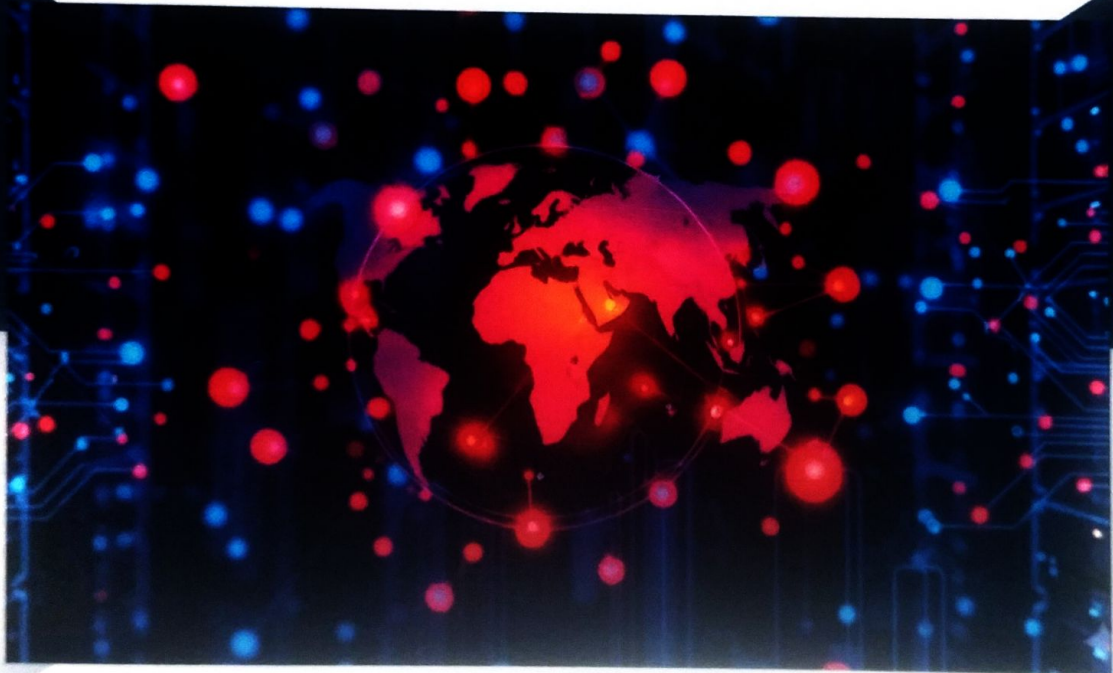


As Per New NEP 2.0 Syllabus 2025
Shivaji University, Kolhapur
B.Sc. Computer Science : Entire Part-II
Semester - IV

COMPUTER NETWORKING

(MINOR-VII)



A. S. ATHANIKAR
N. M. KUMBHARE

R. A. DESHMUKH
Dr. D. B. PATIL

 **NIRALI**
PRAKASHAN
ADVANCEMENT OF KNOWLEDGE

A TEXT BOOK OF

COMPUTER NETWORKING

(MINIOR-VII)

For

B.Sc. Computer Science Entire Part - II

Subject II Electronics: Semester-IV

*As Per New Revised NEP-2.0 Pattern Syllabus of
Shivaji University, Kolhapur w.e.f. June 2025-26*

Mr. A. S. ATHANIKAR

M.Sc., NET, SET

Assistant Professor,
Department of Electronics,
S.M. Dr. Bapuji Salunkhe College,
Miraj.

Mr. R. A. DESHMUKH

M.Sc., SET

Assistant Professor,
Department of Electronics,
Vivekanand College (E. Autonomous),
Kolhapur.

Mr. N. M. KUMBHARE

M.Sc, NET, SET

Assistant Professor,
Department of Electronics,
S.M. Dr. Bapuji Salunkhe College
Miraj.

Dr. D.B. PATIL

M.Sc., Ph.D.

Assistant Professor,
Department of Computer Science Entire
The New College, Kolhapur.

Price ₹ 90.00

B.Sc. II (Computer Science Entire) (Sem.IV) : Computer Networking
First Edition : March 2026
ISBN : 978-93-6993-849-0

© : Authors

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 Authors 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 brought to our notice shall be taken care of in the next edition. It is notified that neither the publisher nor the authors or 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.

Published By :
NIRALI PRAKASHAN

Abhyudaya Pragati, 1312, Shivaji Nagar,
Off J.M. Road, Pune - 411005
Tel - (020) 25512336/37/39
Email : niralipune@pragationline.com

Polyplate

Printed By :
YOGIRAJ PRINTERS AND BINDERS

Survey No. 10/1A, Ghule Industrial Estate
Nanded Gaon Road
Nanded, Pune - 411041

DISTRIBUTION CENTRES

PUNE

Nirali Prakashan
(For orders outside Pune)

S. No. 28/27, Dhayari Narhe Road, Near Asian College
Pune 411041, Maharashtra
Mobile : 9049672225

Nirali Prakashan
(For orders within Pune)

119, Budhwar Peth, Jogeshwari Mandir Lane
Pune 411002, Maharashtra
Mobile : 96577031450, 9890997937
Email : niralilocal@pragationline.com

MUMBAI

Nirali Prakashan

Rasdhara Co-op. Hsg. Society Ltd., 'D' Wing Ground Floor, 385 S.V.P. Road
Girgaum, Mumbai 400004, Maharashtra
Mobile : 7045821020, Tel : (022) 2385 6339 / 2386 9976
Email : Mumbai@niralibooks.com

DISTRIBUTION BRANCHES

DELHI

Nirali Prakashan

Room No. 2 Ground Floor
4575/15 Omkar Tower, Agarwal
Road Darya Ganj, New Delhi
110002

Mobile : 9818561840
Email : delhi@niralibooks.com

BENGALURU

Nirali Prakashan

Maitri Ground Floor, Jaya Apartments,
No. 99, 6th Cross, 6th Main,
Malleswaram, Bengaluru 560003
Karnataka, Mob : 9686821074
Email : bengaluru@niralibooks.com

NAGPUR

Nirali Prakashan

Above Maratha Mandir, Shop
No. 3, First Floor, Rani Jhansi
Square, Sitabuldi Nagpur
440012 (M.H.)
Tel : (0712) 254 7128
Email : nagpur@niralibooks.com

KOLHAPUR

Nirali Prakashan

438/2, Bhosale Plaza, Ground Floor
Khasbag, Opp. Balgopal Talim
Kolhapur 416 012 Maharashtra
Mob : 9850046155
Email : kolhapur@niralibooks.com

JALGAON

Nirali Prakashan

34, V. V. Golani Market, Near Peth, Jalgaon
429001, Maharashtra
Tel : (0260) 232 8085
Mob : 94234 91860
Email : jalgaon@niralibooks.com

SOLAPUR

Nirali Prakashan

R-15A/2, Avasari Nagar, Near Gadar
Gate, Pune-Naka Chowk
Solapur 413001, Maharashtra
Mobile : 9890918687
Email : solapur@niralibooks.com

For Order Enquiries : marketing@pragationline.com | www.niralibooks.com

Also find us on  www.facebook.com/niralibooks