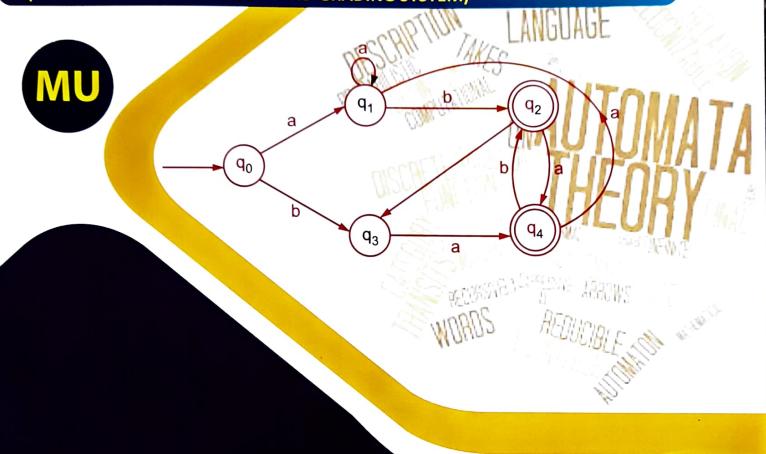
43_Automata Theory

STRICTLY AS PER THE NEW REVISED SYLLABUS (REV-2019 'C' SCHEME)
OF MUMBAI UNIVERSITY W.E.F ACADEMIC YEAR 2020-21
(AS PER CHOICE BASED CREDIT AND GRADING SYSTEM)



AUTOMATA THEORY

Bachelor of Engineering
Second Year (S.E.) Degree Course
in Information Technology Engineering | Semester 4

Dr. MADHAVI WAGHMARE

Mrs. VAISHALI SHIRSATH



HEAD

Dept. of Information Technology
Vidyavardhim's College of
Engineering and Technology.

Vasai Road 401 202.



www.pragationline.com

facebook.com/niralibooks

@ @nirali.prakashan

A Text Book Of

AUTOMATA THEORY

(ITC404)

Semester - IV BACHELOR OF ENGINEERING

SECOND YEAR DEGREE COURSE IN INFORMATION TECHNOLOGY

NEW SYLLABUS AS PER REV - 2019 'C' SCHEME OF MUMBAI UNIVERSITY
WITH EFFECT FROM 2020 - 2021

Dr. MADHAVI WAGHMARE

Ph.D. M.Tech.
Assistant Professor
Deptt. of Information Technology,
Vidyavardhini's College of Engineering & Technology,
Vasai, Mumbai

Mrs. VAISHALI SHIRSATH

M.E. Computer
Assistant Professor
Deptt. of Information Technology,
Vidyavardhini's College of Engineering & Technology,
Vasai, Mumbai

Price ₹ 230.00



HEAD

Dept. of Information Technology
Vidyawardhior's College of
Engineering and Technology.
Vasai Road 4rd 208.



N6048

AUTOMATA THEORY

: April 2023 First Edition

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 shall be 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

PRINT CORNER

1025 Sadashiv Peth

Vishal Apartment, Shop No. 4/5

ISBN 978-81-19115-70-9

Opposite Shivaji Mandir Next to Indian Bank, Pune 411030

Mobile: 9145009800, Email: pod@printcorners.in

DISTRIBUTION CENTRES

PUNE

Nirali Prakashan

(For orders outside Pune)

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

Tel: (020) 24690204; Mobile: 9657703143 Email: bookorder@pragationline.com

Nirali Prakashan

(For orders within Pune)

119, Budhwar Peth, Jogeshwari Mandir Lane Pune 411002, Maharashtra

Tel: (020) 2445 2044; Mobile: 9657703145 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: niralimumbai@pragationline.com

DISTRIBUTION BRANCHES

DELHI

Nirali Prakashan

Room No. 2 Ground Floor 4575/15 Omkar Tower, Agarwal Road Darya Ganj, New Delhi 110002 Mobile: 9555778814/9818561840

Email: delhi@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

BENGALURU

Nirali Prakashan

Maitri Ground Floor, Jaya Apartments, No. 99, 6th Cross, 6th Main, Malleswaram, Bengaluru 560003 Karnataka; Mob: 9686821074

Email: bengaluru@niralibooks.com

JALGAON

Nirali Prakashan

34, V. V. Golani Market, Navi Peth, Jalgaon 425001, Maharashtra

> Tel: (0257) 222 0395 Mob: 94234 91860

Email: jalgaon@niralibooks.com

NAGPUR

Nirali Prakashan

Above Maratha Mandir, Shop No. 3, First Floor, Rani Jhanshi Square, Sitabuldi Nagpur 440012 (MAH)

Tel: (0712) 254 7129

Email: nagpur@niralibooks.com

SOLAPUR

Nirali Prakashan

R-158/2, Avanti Nagar, Near Golden Gate, Pune Naka Chowk Solapur 413001, Maharashtra

Mobile 9890918687

solapur@niralibooks.com

Dept. of Information Technology Vidyavardhini's College of

Vasai Road 4rd 202.

marketing@pragationline.com | www.pragationline.com

Also find us on f www.facebook.com/niralibookept.

About The Authors



Dr. Madhavi Harish Waghmare, Assistant Professor, Dept. of Information Technolgy, Vidyavardhini's College of Engineering and Technology, Vasai. She received her M. Tech. in 2004 from CEDTI, Aurangabad and Ph.D. in 2019 from Sardar Patel Institute of Technology, University of Mumbai.



Vaishali Anil Shirsath received her M.E. degree in 2011 on Computer Engineering from D. Y. Patil Engineering College, Pune, and currently pursuing her Ph.D. from Veermata Jijabai Technological Institute, Mumbai. Since 2004 she is associated with Vidyavardhini's College of Engineering and Technology, Mumbai, and is currently designated as an Assistant Professor in the Department of Information Technology. She has been worked as a TPC member for the subject "Internet of Things — Considerations and Applications" in IEEE international conference, IndiaCom 2016 - 2022 at New Delhi.

BOOKS AVAILABLE AT

Pragati Book Corner - Email: pragatibookcorner@gmail.com

Apurva Building, Shop No. 1, Bhavani Shankar Road, Opp. Shardashram Society, Dadar (W), Mumbai 400028, Tel: (O22) 24223526 | Mobile/Whatsapp : 9819935759

And Book Stores Near You - #AskforNIRALI

amazon

www.pragationline.com

Flipkart



E-BOOK AVAILABLE ON PRAGATIONLINE.COM

Scan QR Code to Access Pragationline E-Reader and Store

Mobile App for Additional Content (Sound Papers, Videos, etc.)



HEAD

Dept. of Information Technology
Vidyavardhim's College of
Engineering and Technology.
Vasai Road 401 202.



NIRALI PRAKASHAN - MUMBAI

Rasadhara Co-op Hsg. Soc. Ltd., 'D' Wing, Ground Floor, 385, S.V.P Road, Opp. New Harkisandas Reliance Hospital, Mumbai – 400004.

Tel.: +91 2223869976

Mobile/Whatsapp: 7045821020 Email: mumbai@niralibooks.com

ISBN 978-81-19115-70-9

