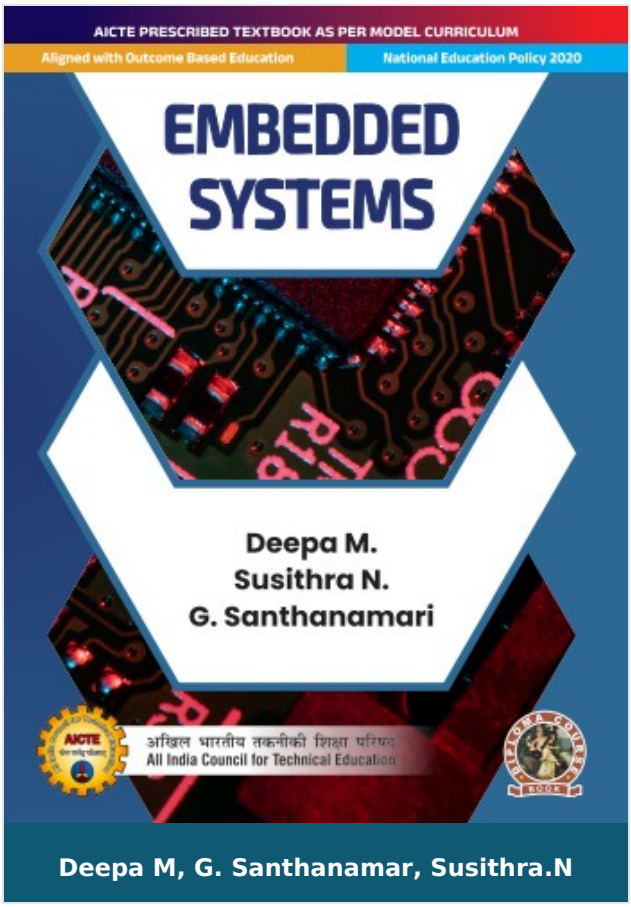

Embedded Systems

Author :	Deepa M, G. Santhanamar, Susithra.N
ISBN 13 :	978-93-55384-69-0
ISBN 10 :	9355384696
E-ISBN 13 :	978-93-55384-69-0
Edition :	First
Pages :	232
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 428.00
Categories :	English Books, Book Store, AICTE Prescribed Textbooks
Condition Type :	New
Country Origin :	India

Product Description

Embedded Systems

This book presents the materials in a way that is both lucid and engaging. Through detailed explanations, real-world examples, and hands-on projects, the book provides knowledge and skills needed to excel in this dynamic field of embedded systems.

Salient Features:

- Introduction to the Arduino IDE, basics of programming with Arduino (Syntax, structure, functions), and detailed examples of sketches (programs) for various projects.
- Step-by-step guide to create simple to complex projects, including illustrations and diagrams for wiring and assembling, along with over 30 code examples and explanations for each project.
- Detailed description of different types of sensors (temperature, light, motion, etc.) and how to control them using Arduino.
- Advanced concepts like PWM, serial communication, and interrupts, as well as network communication using wi-fi and Bluetooth.
- Troubleshooting common issues and suggested solutions.
- A list of inspiring project ideas for aspiring project enthusiasts.
- Unit-wise recap to summarize important points and mind map as a tool for visual interpretation and summary of the unit.
- IKS insights offering analogies and relevance of the Indian Knowledge System to the contemporary practices and technologies.

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Guidelines for Teachers
- Guidelines for Students
- Abbreviations and Symbols
- List of Figures
- List of Tables
- Embedded C basics and operators for Arduino
- Embedded C control structure blocks
- Introduction to Arduino mega
- Communication with Arduino
- References
- Project inspirations
- Troubleshooting Q&A
- Appendices
- CO and PO Attainment Table
- Index

Author

Deepa M

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Deepa M, Susithra N, Dr. G. Santhanamari Department of Electronics and Communication, PSG Institute of Technology and Applied Research, Avinashi Road, Neelambur, Coimbatore, Tamil Nadu, India.

G. Santhanamar

Deepa M, Susithra N, Dr. G. Santhanamari Department of Electronics and Communication, PSG Institute of Technology and Applied Research, Avinashi Road, Neelambur, Coimbatore, Tamil Nadu, India.

Susithra.N

Deepa M, Susithra N, Dr. G. Santhanamari Department of Electronics and Communication, PSG Institute of Technology and Applied Research, Avinashi Road, Neelambur, Coimbatore, Tamil Nadu, India.