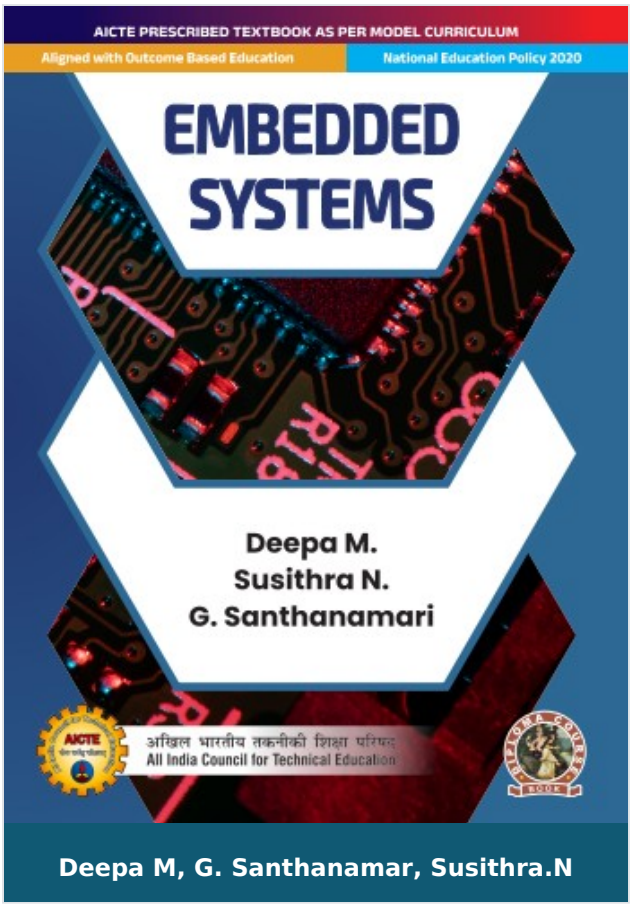



# Embedded Systems

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## 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.

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