

Contents

S.No	Chapter Name	Pages
1.	Foundations of IoT Security and the Evolving Threat Landscape <i>Dr. G. Jose Moses</i>	1–12
2.	Authentication and Authorization Mechanisms for IoT Devices and Networks <i>Sandeep Kumar Agrawal</i>	13–23
3.	Encryption Standards and Cryptographic Protocols for IoT Communication <i>Dr. Anup Bhang</i>	24–34
4.	Securing Edge Devices and Embedded Systems in IoT Deployments <i>Allanki Sanyasi Rao</i>	35–45
5.	Network Security Architecture for Large-Scale IoT Infrastructure <i>K. P. V. Pinkeyroshan</i>	46–55
6.	Privacy-Preserving Data Collection and User Consent Management <i>B. Spandana</i>	56–66
7.	Secure Data Transmission and Protection Against Man-in-the-Middle Attacks <i>Dr. M. Thirupathi Reddy</i>	67–76
8.	Vulnerability Assessment and Penetration Testing in IoT Environments <i>N. Shilpa</i>	77–86
9.	Secure Cloud Integration and Data Storage for IoT Applications <i>Shaga Akhila</i>	87–97
10.	Identity Management and Device Registration in Distributed IoT Systems <i>Dr. Gajanan Badhe</i>	98–108
11.	Anomaly Detection and Intrusion Prevention for IoT Networks <i>Haseeba Yaseen</i>	109–120

12.	Scalable Database Solutions for Managing Massive IoT Data Volumes	121–134
	<i>B. Gnana Deepthi</i>	
13.	Data Governance and Compliance with GDPR and IoT Regulations	135–143
	<i>Dr. Yogini B. Patil</i>	
14.	Incident Response and Forensics in Compromised IoT Systems	144–154
	<i>J. Srilatha</i>	
15.	Building Trust and Implementing Security Best Practices Across IoT Ecosystems	155–165
	<i>Dr. Thammadi Esther Ratna</i>	