

IoT (Internet of Things)

1. Smart Home Automation System
2. IoT-Based Health Monitoring System
3. Smart Agriculture System
4. IoT-Enabled Parking Management System
5. Intelligent Street Lighting System
6. IoT-Based Smart Grid
7. Smart Waste Management System
8. IoT-Enabled Air Pollution Monitoring
9. Smart Water Quality Monitoring System
10. IoT-Based Energy Meter

Embedded Systems

11. Real-Time Heart Rate Monitor
12. Smart Traffic Light System
13. Automated Irrigation System
14. Smart Wheelchair
15. Home Security System with Face Recognition
16. Embedded System for Industrial Automation
17. GPS-Based Location Tracker
18. Digital Voting Machine
19. Automatic Door Opener with RFID
20. Fire Detection and Alarm System

Wireless Communication

21. Wireless Power Transfer System
22. Li-Fi Data Transmission System
23. Wireless Weather Monitoring System
24. Zigbee-Based Wireless Communication
25. Wireless Sensor Network for Environmental Monitoring
26. RF-Based Home Automation System
27. Wireless Patient Monitoring System
28. Bluetooth-Based Data Logger
29. Wireless Toll Collection System
30. Wireless Audio Transmission System

Robotics

31. Autonomous Delivery Robot
32. Line Following Robot

33. Fire Fighting Robot
34. Gesture Controlled Robot
35. Surveillance Robot with Night Vision Camera
36. Obstacle Avoidance Robot
37. Swarm Robotics
38. Humanoid Robot
39. Voice-Controlled Robot
40. Underwater Exploration Robot

Signal Processing

41. Speech Recognition System
42. Image Compression Using Wavelet Transform
43. Digital Watermarking System
44. Real-Time Object Detection
45. ECG Signal Analysis
46. Noise Reduction System
47. Digital Audio Equalizer
48. Face Detection and Recognition
49. Real-Time Video Processing
50. Biomedical Signal Processing

Renewable Energy

51. Solar-Powered Mobile Charger
52. Wind Energy Harvesting System
53. Hybrid Renewable Energy System
54. Smart Grid with Renewable Energy
55. Solar Tracking System
56. Energy Harvesting from Vibrations
57. Piezoelectric Energy Harvesting
58. Solar-Powered Street Light
59. Green Energy Monitoring System
60. Micro-Hydro Power Generation

Communication Systems

61. Software-Defined Radio
62. Satellite Communication System
63. Optical Fiber Communication
64. Antenna Design and Analysis
65. 5G Communication System
66. Wireless Body Area Network
67. Underwater Communication System

- 68. Visible Light Communication
- 69. Cognitive Radio Network
- 70. Radio Frequency Identification (RFID)

VLSI (Very Large Scale Integration)

- 71. FPGA-Based System Design
- 72. ASIC Design for Low Power Consumption
- 73. Digital Signal Processor Design
- 74. VLSI for Cryptography
- 75. High-Speed Data Converter
- 76. Low Power VLSI Design
- 77. Reconfigurable Computing Systems
- 78. VLSI for Image Processing
- 79. System on Chip (SoC) Design
- 80. Mixed-Signal VLSI Design

Automation

- 81. Home Automation Using PLC
- 82. Automated Guided Vehicle (AGV)
- 83. Industrial Process Automation
- 84. Automated Assembly Line
- 85. Intelligent Transportation System
- 86. Smart Factory Automation
- 87. Automated Warehouse Management
- 88. Automated Inventory Control
- 89. Remote Monitoring System for Automation
- 90. SCADA System for Industrial Automation

Control Systems

- 91. PID Controller Design
- 92. Adaptive Control System
- 93. Robotic Arm Control System
- 94. Fuzzy Logic Controller
- 95. Distributed Control System (DCS)
- 96. Model Predictive Control
- 97. Real-Time Control System
- 98. Automatic Cruise Control
- 99. Inverted Pendulum Control
- 100. Autonomous Vehicle Control System

Biomedical Engineering

101. Wearable Health Monitoring System
102. Portable ECG Device
103. Smart Prosthetic Limb
104. Automated Insulin Pump
105. Telemedicine System
106. Biomedical Signal Acquisition System
107. Health Monitoring Wearable for Elderly
108. Non-Invasive Glucose Monitoring
109. Smart Hearing Aid
110. Biometric Authentication System

Power Electronics

111. Smart Inverter System
112. Power Factor Correction System
113. Electric Vehicle Charging Station
114. Wireless Power Transmission
115. High-Efficiency DC-DC Converter
116. Solid State Transformer
117. Power Quality Monitoring System
118. Switched Mode Power Supply (SMPS)
119. Solar Power Converter
120. Uninterruptible Power Supply (UPS)

Artificial Intelligence and Machine Learning

121. Predictive Maintenance System
122. Autonomous Drone Navigation
123. AI-Based Traffic Prediction
124. Machine Learning for Medical Diagnosis
125. Intelligent Chatbot System
126. Fraud Detection System
127. AI-Powered Surveillance System
128. Speech to Text Converter
129. AI-Based Stock Market Prediction
130. Automated Essay Scoring System

Nanotechnology

131. Nanoelectronics for Data Storage
132. Nanosensors for Environmental Monitoring
133. Nanorobots for Medical Applications
134. Nano-Optoelectronic Devices
135. Nanoscale Transistors

136. Nanotechnology for Drug Delivery
137. Nanomaterials for Energy Storage
138. Nano-Coatings for Corrosion Protection
139. Nano-Bio Sensors
140. Nano-Fabrication Techniques

Cybersecurity

141. Intrusion Detection System
142. Secure Communication System
143. Blockchain-Based Security System
144. Cybersecurity for IoT Devices
145. Secure Data Transmission Using Cryptography
146. AI for Cyber Threat Detection
147. Network Security Monitoring System
148. Biometric-Based Authentication System
149. Secure Cloud Storage System
150. Malware Analysis and Detection

Cloud Computing

151. Cloud-Based IoT Platform
152. Cloud-Based Data Backup System
153. Cloud-Enabled Smart Home
154. Cloud Computing for Big Data Analysis
155. Cloud-Based Healthcare System
156. Cloud-Based Resource Management
157. Cloud Storage Optimization
158. Cloud-Based Learning Management System
159. Cloud-Based Financial Management System
160. Cloud-Based Collaboration Tools

Networking

161. Software-Defined Networking (SDN)
162. Network Traffic Analysis
163. Wireless Mesh Network
164. Network Security System
165. IoT Network Design
166. Network Protocol Simulation
167. Network Performance Monitoring
168. Virtual Private Network (VPN)
169. Network Function Virtualization (NFV)
170. Internet Exchange Point (IXP) Design

Renewable Energy Integration

171. Smart Grid with IoT
172. Renewable Energy Management System
173. Energy Storage System for Solar Power
174. Wind Turbine Control System
175. Microgrid Design and Implementation
176. Hybrid Energy System Optimization
177. Renewable Energy Forecasting
178. Smart Charging Stations for EVs
179. Grid-Tied Solar Power System
180. Distributed Energy Resource Management

Advanced Sensors

181. MEMS-Based Sensor Design
182. Smart Gas Sensor
183. Optical Sensors for Environmental Monitoring
184. Smart Pressure Sensor
185. Biosensors for Health Monitoring
186. Intelligent Temperature Sensor
187. Smart Motion Sensor
188. Wireless Sensor Networks
189. Smart Humidity Sensor
190. Sensor Fusion for Robotics

Miscellaneous

191. Smart Helmet for Safety
192. Automated Traffic Management System
193. Gesture Recognition System
194. Smart Shopping Cart
195. Smart Mirror with Voice Assistant
196. Augmented Reality System
197. Smart City Infrastructure
198. Virtual Reality Headset
199. Intelligent Home Appliances
200. Smart Campus Solutions