

STE Micro Project Topics For Final Year

List of STE Micro Project Topics For Final Year:

Environmental Monitoring and Sustainability

1. Smart Plant Watering System Using Soil Moisture
2. Solar-Powered Air Quality Monitor for City Streets
3. Automatic Pet Feeder with Food Level Alert
4. Rain Collector That Measures Daily Water Amount
5. Wind Speed Checker for Safe Outdoor Activities
6. Home Energy Usage Monitor with LED Display
7. Smart Recycling Bin That Sorts Different Materials
8. Temperature Alert System for School Classrooms
9. Noise Level Meter for Quiet Zone Areas
10. Sun Tracking Solar Panel for Better Energy
11. Garden Light That Uses Stored Solar Power
12. Water Tank Level Checker with Phone Alert
13. Smart Window That Opens When Too Hot
14. Weather Station That Predicts Rain Coming Soon
15. Plant Growth Monitor Using Light Sensors
16. Trash Can That Sorts Plastic and Paper
17. School Bus Air Quality Warning System
18. Water Leak Detector for Home Pipes
19. Smart Compost Bin Temperature Controller
20. Bird Feeder That Counts Daily Visitors
21. River Water Cleanliness Checking Device
22. Tree Health Monitor Using Leaf Color
23. Smart Greenhouse Temperature Control System
24. Rainfall Collector with Digital Display Screen
25. Beach Water Safety Testing Device
26. Forest Fire Early Warning System
27. Smart Fish Tank Water Quality Monitor
28. Indoor Air Freshness Measuring Tool
29. School Garden Soil Health Checker
30. Playground Air Quality Warning Light
31. Smart Sprinkler for Water-Saving
32. Wind Direction Finder for Weather Study
33. Sky Darkness Meter for Star Watching
34. Smart Trash Sorter with Moving Parts
35. Farm Soil Moisture Map Maker
36. City Noise Pollution Warning System
37. Smart Street Light That Saves Energy
38. Park Wildlife Activity Monitor System
39. Beach Clean Water Testing Robot
40. School Playground Weather Station Kit

2. Home and Daily Life Automation

41. Smart Door Bell with Face Recognition
42. Automatic Room Light Based on Movement
43. Kitchen Timer with Visual Color Alerts
44. Smart Mirror That Shows Weather Info
45. Bedroom Temperature Control with Fan
46. Automatic Plant Watering Mini System
47. Smart Shoe Rack with Rain Alert
48. Voice Controlled Room Light Switch
49. Smart Closet with Clothes Counter
50. Kitchen Safety Gas Leak Detector
51. Bathroom Mirror Fog Prevention System
52. Smart Window Blinds That Follow Sun
53. Home Security Camera with Motion Detect
54. Voice Command TV Remote Control
55. Smart Fridge That Lists Missing Food
56. Automatic Pet Door with Timer
57. Smart Mailbox with Package Alert
58. Voice Controlled Fan Speed Controller
59. Smart Medicine Box with Time Reminder
60. Automatic Garage Door Light System
61. Smart Door Lock with Phone Control
62. Kitchen Smoke Detection Alert System
63. Smart Wall Clock with Weather Display
64. Voice Command Light Color Changer
65. Smart Doormat That Counts Steps
66. Bathroom Mirror with Time Display
67. Smart Toy Box with Item Counter
68. Voice Controlled Bedroom Fan Switch
69. Smart Chair That Checks Posture
70. Kitchen Timer with Light Signals
71. Smart Desk Lamp with Eye Protection
72. Voice Command Music Player System
73. Smart Coat Rack Weather Advisor
74. Automatic Room Air Freshener System
75. Smart Mirror with News Display
76. Voice Controlled Window Opener
77. Smart Bed with Sleep Monitor
78. Kitchen Helper Robot with Timer
79. Smart Shelf with Item Counter
80. Voice Command Room Temperature Control

3. Health and Safety Projects

81. Heart Rate Monitor with Warning System
82. Step Counter with Distance Calculator

83. Medicine Time Reminder with Alarm
84. Safe Distance Keeper with Light Alert
85. Hand Washing Timer with Music
86. Body Temperature Scanner at Door
87. Exercise Counter with Motion Sensor
88. Smart First Aid Kit Inventory
89. Drink Water Reminder Clock System
90. Walking Speed Monitor for Safety
91. Smart Glasses UV Protection Alert
92. Safe Lifting Position Helper Device
93. School Bag Weight Warning System
94. Smart Face Mask Filter Checker
95. Eye Strain Prevention Computer Monitor
96. Smart Bike Helmet with Light
97. Safe Food Temperature Storage Monitor
98. Smart Watch with Health Alerts
99. School Chair Posture Helper System
100. Smart Sports Safety Equipment
101. Breathing Exercise Helper Device
102. Smart Shoe Step Counter Display
103. Safe Distance Playground Monitor System
104. Smart Sport Ball Speed Checker
105. Health Check Morning Mirror Display
106. Smart Gym Equipment Safety Monitor
107. Safe Walking Path Light System
108. Smart Knee Guard with Sensors
109. Health Alert Smart Water Bottle
110. Smart Safety Vest with Lights
111. Safe Distance Social Game System
112. Smart Health Check Door Handle
113. Safe Play Area Monitor System
114. Smart Sports Timer with Display
115. Health Monitor Smart Wristband
116. Safe Distance Learning Space Monitor
117. Smart Safety Belt with Alarm
118. Health Check Smart Mirror System
119. Safe Exercise Space Monitor Device
120. Smart Health Record Keeper Watch

4. Learning and Education Tools

121. Math Learning Game with Lights
122. Smart Spelling Practice Board System
123. Science Experiment Helper Robot
124. Language Learning Voice Recognition Tool
125. Music Note Learning Light System
126. Smart Art Drawing Helper Board
127. Geography Learning Globe with Lights

128. History Timeline Interactive Display Board
129. Chemistry Lab Safety Alert System
130. Smart Book Page Counter Display
131. Physics Learning Helper Robot
132. Math Problem-Solving Light Game
133. Smart Study Time Manager Clock
134. Reading Speed Helper Display Board
135. Science Lab Data Collector Tool
136. Smart Writing Practice Board System
137. Language Speaking Practice Robot
138. Music Rhythm Learning Light Game
139. Art Color Mixing Helper Device
140. Smart Geography Map Quiz Board
141. History Facts Learning Display
142. Chemistry Mix Safety Check System
143. Smart Homework Time Manager Clock
144. Reading Light Adjustment Helper Tool
145. Science Project Data Logger Device
146. Smart Math Quiz Game Board
147. Language Translation Helper Device
148. Music Note Reading Practice Board
149. Art Project Helper Light System
150. Smart Study Break Timer Device
151. History Date Learning Game Board
152. Chemistry Lab Temperature Monitor System
153. Smart Reading Position Helper Tool
154. Science Experiment Timer Display
155. Math Game with Moving Parts
156. Language Practice Recording System
157. Music Beat Counter Light Display
158. Art Color Matcher Helper Device
159. Smart Study Desk Light System
160. History Timeline Game Board

5. Entertainment and Gaming Projects

161. LED Dance Floor with Music
162. Smart Card Game Score Counter
163. Voice Controlled Gaming Light System
164. Motion Sensor Dance Game Board
165. Smart Board Game Move Counter
166. Light Up Music Beat Maker
167. Interactive Story Book Light Display
168. Smart Toy Car Race Timer
169. Voice Command Game Controller System
170. Motion Gaming Light Display Board
171. Smart Puzzle Helper Light System
172. Music Beat Light Show Maker

173. Interactive Gaming Score Display Board
174. Smart Toy Train Track Controller
175. Voice Activated Game Light Show
176. Motion Sensor Sports Game Timer
177. Smart Dice Roll Counter Display
178. Music Pattern Light Game Board
179. Interactive Gaming Helper Robot
180. Smart Toy Building Block Counter
181. Voice Game Score Display Board
182. Motion Control Light Game System
183. Smart Game Time Manager Clock
184. Music Making Light Display Board
185. Interactive Gaming Point Counter
186. Smart Toy Race Track Timer
187. Voice Control Game Light Board
188. Motion Sensor Dance Light System
189. Smart Game Helper Light Display
190. Music Beat Counter Game Board
191. Interactive Gaming Score Keeper
192. Smart Toy Car Speed Timer
193. Voice Gaming Light Show System
194. Motion Control Game Board Display
195. Smart Game Point Calculator
196. Music Light Show Game Board
197. Interactive Gaming Timer Display
198. Smart Toy Robot Controller System
199. Voice Command Game Score Board
200. Motion Gaming Light Show Maker

STE Micro Project Topics with Source Code

1. Automated test suite for e-commerce payment systems.
2. Mobile app testing tool using Selenium and Appium.
3. API testing framework with response verification.
4. Cross-browser testing for responsive website designs.
5. Database testing system with SQL query checking.
6. Load testing tool for performance and stress tests.
7. Security testing software for website vulnerabilities.
8. A test case manager with automated report generation.
9. GUI testing tool using Python for web applications.
10. REST API testing with JSON schema validation.
11. Regression testing with automated case generation.
12. Mobile game testing tool for Android devices.
13. Cloud application testing with AWS integration.
14. Test data generator for database testing needs.
15. Continuous integration testing with Jenkins pipeline.
16. Browser extension testing using Selenium WebDriver.

17. Network testing software for protocol analysis.
18. Test script generator for web app testing needs.
19. Bug tracking tool with automated error reporting.
20. Accessibility testing tool for web content standards.

STE Micro Project Topics for MSBTE

41. Simple calculator testing with math operation checks.
42. Login system testing with basic security validations.
43. Grade calculator testing for accurate input validations.
44. Contact management app testing with CRUD features.
45. To-do list app testing for task management systems.
46. Basic quiz app testing with score computation.
47. Chat app testing with message validation processes.
48. File upload system testing with format verifications.
49. E-commerce cart testing with price accuracy checks.
50. Attendance tracking software with report generation.
51. Simple notepad app testing for file-saving reliability.
52. Password manager testing for encryption security.
53. Weather app testing with API data integration.
54. Library system testing with book transaction accuracy.
55. Calendar app testing for event management tasks.
56. Music player testing for smooth playback functions.
57. Image gallery app testing for upload features.
58. Newsletter app testing with email sending validation.
59. BMI calculator app testing with input accuracy.
60. Currency converter testing with rate-update integration.

Software Testing Micro Project Topics for Diploma

61. Basic web form testing for input validation issues.
62. Login page testing for proper authentication methods.
63. Calculator app testing with essential math operations.
64. Student database testing with CRUD system.
65. Shopping cart testing with checkout process checks.
66. Address book testing for reliable contact storage.
67. Task manager testing with task completion validation.
68. Message board testing for post-verification processes.
69. File manager testing with data storage features.
70. Inventory system testing for stock update accuracy.
71. Time tracker testing for duration calculation efficiency.
72. Budget calculator testing for expense tracking.
73. Note-taking app testing with save and retrieval.
74. Timer app testing with accurate countdown functionality.
75. Recipe manager app testing for input validation.
76. Calendar testing with event scheduling accuracy.
77. Password generator testing for secure randomness.

78. BMI calculator testing with error-free calculations.
79. Currency converter testing with updated exchange rates.
80. Quiz app testing with responsive scoring features.