Innovative mini-projects list

*Technologies:*

1. **Touch screen (Haptic).**
2. **MEMS Accelerometer.**
3. **Tongue drives assistive technology.**
4. **Finger prints Authentication.**
5. **RFID/ Smart/Mifare card.**
6. **I-Button.**
7. **Global Positioning System (GPS) technology.**
8. **GSM technology.**
9. **Wireless technology.**
10. **Wired communication.**
11. **Heartbeat sensor.**
12. **ROBOTICS.**
13. **Non-Micro controller based.**
14. **555 Timer.**
15. **LM358 Comparator.**
16. **LM324 Comparator.**
17. **Touch plate.**
18. **Fast switching Transistors.**
Innovative mini-projects list

SEM-346. Automatic power failure indication system
SEM-347. Wireless power transmission
SEM-348. Design of low cost temp control system for solar cell lamination machine
SEM-349. Soil moisture & temperature based irrigation water pump controlling system.
SEM-350. Automatic active phase selector for 1 phase load from 3 phase using Logic gates
SEM-351. Design of an Inverter with battery low & over load indicator
SEM-352. Simple walking robot by coat hanger walker
SEM-207. RFID based automatic tollgate with balance reduction and recharge.
SEM-327. Design of Timer based industrial/Home Automation with time setting value using Taper POT and 555 Timer.
SEM-329. RF operated toll gate with vehicle counter.
SEM-384. Automatic Head light Intensity control for vehicles to avoid accidents
SEM-136. REALTIME PANTRY INFORMATION SYSTEM USING RS-232 (Can transmit information till 30Mtrs)
SEM-295. Hand cranked dynamo based energy generation system for emergency headlamp applications for mining employees who work under ground and dark conditions
SEM-296. Airport security Luggage scanner system with conveyor belt arrangement
SEM-379. Automatic low tire pressure alerting system.
SEM-383. Electronic Passport using RFID
SEM-384. GSM based smart information system for lost ATM card
SEM-238. Intruder detection and wireless alerting using RFID and Burglar Alarm
SEM-377. Students marks display on PC by accessing from Finger print module.
SEM-259. Wireless controlled Heavy duty robot for Army Applications
SEM-226. Traffic density acquisition by GSM with low, medium and high.
SEM-230. Joystick controlled wheel chair with Auto mode and obstacle sensor.
SEM-227. Cryptography using Zigbee and PC.
SEM-380. Wireless low tire pressure alerting system.
SEM-225. SMS based Electing systems.
SEM-344. Home security based on LASER lighting system.
SEM-376. Library Automation with user defined finger print accessing.
SEM-378. Dual security access control system based on finger print and Keypad
SEM-374. Authenticated device switching based on Fingerprint and Keypad
SEM-248. Image based calling system for heartbeat patients with heartbeat monitoring
SEM-217. Heartbeat monitoring and voice based alerting system for high and low heart rate.
SEM-267. MOTION SENSOR FOR SECURITY LIGHT
SEM-275. Green Wind Energy for rural electrification
SEM-258. Advanced Robot with 360Degrees
SEM-229. Security management system with hall sensor for oil industries
SEM-228. Line follower robot.
SEM-314. LDR based device switching with intensity controlling
SEM-315. DC light dimmer controlling with 555 Timer
SEM-316. Design of metal detector using 555 Timer with buzzer alert
SEM-317. Speed control of DC motor by PWM using 555 Timers.
SEM-319. Touch based device switching with efficient transistor.
SEM-233. Power management system for high way lighting using RFID.
SEM-235. Zigbee based spy robot with LASER
SEM-243. Smart card based security control system
SEM-244. Industrial automation with Keypad and Smart card
SEM-251. Voice based obstacle detection alerts for blind
SEM-257. RF controlled Intelligent Buggy Robot
SEM-309. Solar fencing: to prevent crop damage by animals, gives mild electric shock, which is safe and can be demonstrated to students.
SEM-310. Design and construction of 100Watt efficient Inverter.

SEM-213. RFID based bus name announcement system

SEM-215. Breathe alcohol detector with automatic vehicle control to prevent drunken driving.

SEM-221. Electronic Nose

SEM-222. Flying object travel location data logger with 2GB MMCSD memory card using GPS for aeronautical application

SEM-223. Advanced automatic irrigation system with day and night sensing and Auto controlling of motor

SEM-231. Remote measurement and control for greenhouse using Zigbee

SEM-234. Low cost GSM based home automation with voice announcement.

SEM-239. Touch screen controlled wired robot with LCD

SEM-249. Motion based password authentication system.

SEM-282. Location based advertisement system with voice.


SEM-183. Designing of Haptic interface Restaurant.

SEM-184. Haptic based speaking micro controller.

SEM-185. Designing of Haptic Keypad with magnetic door lock system

SEM-182. Electronic Touch home.


SEM-188. Gestured controlled lamp dimmer (Useful for power conservation)


SEM-190. Intelligent gestured controlled PC.

SEM-05. Image based password authentication for illiterates with Touch screen.

SEM-186. Home appliances controlling using 4-wire resistive touch screen.

SEM-108. Touch screen Controlled PC.

SEM-11. Touch screen based Nurse/attendant calling system for physically impaired.

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Ameerpet: A-8, 2nd floor, Eureka court, beside Image hospital, Ameerpet, HYDERABAD – 73.
SEM-150. Controlling of powered devices using Tongue motion.

SEM-151. Tongue controlled speaking Microcontroller.

SEM-152. Tongue controlled wheel chair.

SEM-192. PC controlling through tongue motion.

SEM-137. RF based child missing alert system.

SEM-143. Smart zone based Vehicle speed control system based on RF

SEM-172. I-Button and keypad based digital door lock system


SEM-26. Live Human being detection wireless remote controlled Robot. (Useful for detection of terrorists hiding inside buildings).

SEM-36. Mobile phone controlled intelligent Robot.

SEM-134. Power management system in shopping malls with bidirectional visitor counter.

SEM-180. Feedback Controlled Devices with Advance Security using Mobile Phones

SEM-87. RFID based vehicle license plate registration and monitoring system. Very useful for Traffic police to identify stolen vehicles.

SEM-198. Mobile battery charge indicator with auto cutoff facility.

SEM-196. Anti-trespassing system for vehicles at traffic signal.


SEM-132. Ultrasonic distance finder.

SEM-158. Missile detection and auto destroy system.


SEM-79. Single phasing preventer for protection of three phase (3-ph) loads

SEM-53. Talking Energy meter. Alerts the user with voice messages in case of over power utilization.

SEM-55. Design and construction of Earth fault relay for single phase power system.

SEM-45. Hall-effect sensor based non-contact AC motor speed monitoring and display system with high and low speed alerts

SEM-03. Innovative keyboard construction that uses only one input pin of microcontroller
SEM-06. Speaking microcontroller for deaf and dumb.

SEM-255. MEMS based platform tilting with angle display for aeronautic and navy applications.

SEM-256. GSM based door Opening/Closing alerting system with Door magnetic sensor


SEM-270. Design of IR transmitter and IR receiver for Shopping malls using Comparator

SEM-271. IR based Home/Industrial automation using 555 Timer.

SEM-328. Electronic Ballast

SEM-330. Designing of High voltage ESP

SEM-331. Advanced home automation system.


SEM-298. IR based intelligent Automatic washbasin / mirror lamp controller

SEM-279. Automated student attendance monitoring system.

SEM-306. Sound operated baby cradle... switches on relay/motor when baby cries also the music


SEM-308. Automatic Water Tap for water saving.

SEM-208. Anti sleep alarm for students

SEM-210. Highly sensitive ear

SEM-211. Knock alarm with high efficient Amplifier

SEM-212. TV remote controlled robot with obstacle avoidance and night vision

SEM-216. Password protected door accessing system using stepper motor

SEM-219. RF based Station name display on LCD

SEM-220. RF based digital lantern using Encode and Decoder

SEM-266. Laptop audio amplifier.

SEM-269. Design and Construction of Ultrasonic sensor
SEM-273. Black/White Color Identification

SEM-281. Advanced EVM.

SEM-284. Mini UPS system.

SEM-285. Air craft cabin monitoring and alerting system.

SEM-287. Optimal power point tracking system for solar/PV cells.

SEM-288. Intelligent lighting system for railway platforms.

SEM-292. Solar based E-Uniform for soldiers who work at extreme high temperatures or extreme low temperatures (same uniform can be used to warm up or cool down body temperature)

SEM-293. Highly sensitive Alcohol sensor with auto car ignition disable feature.

SEM-294. Intelligent IR based automatic Roadway/Highway lighting system with day light sensor.

SEM-311. Controlling of Servo motor by using 555 Timer.

SEM-312. Effective light operated device switching with efficient transistor.

SEM-313. Electronic eye for night device switching using 555 Timer.

SEM-318. Controlling of digital device with digital input to 555 Timer.

SEM-320. Design and construction of high precision Servo Motor driver.

SEM-321. Digital device switching with touch input for ON/OFF.

SEM-322. Highly efficient Audio Amplifier.

SEM-323. Construction of emergency light with automatic switch ON/OFF and battery protection.

SEM-324. Implementation of artificial eye for intelligent line follower Robot.

SEM-310. Design of 100Watt efficient inverter.

SEM-325. Mail box alerting system by using 555 Timer.

SEM-189. Motion based password for device switching.


SEM-133. Checking and auto control of water level using wireless sensor.

SEM-140. Wireless 3-phase motor starter using RF technology.

SEM-97. RFID based farmhouse animal identification system.

SEM-09. Location driven car music player. (Plays devotional songs near temples, shuts at home etc.)
SEM-10. GPS based vehicle location tracking system.

SEM-20. GPS based border alert system for fishermen.

SEM-22. Travel assistant for blind with dynamic user input for location based alerts.

SEM-034. GPS based Speedometer for boat/ship with live speed display and speed limit alerts.


SEM-02. GSM based Irrigation Water Pump Controller for Illiterates (No SMS knowledge required).

SEM-32. Remote control of critical software applications with mobile phone.

SEM-39. Mobile phone controlled Street Light monitoring and control system with automatic day/night switchover.

SEM-64. Password protected GSM based Device control.

SEM-81. PIR and GSM based Home security system.

SEM-84. DTMF Based Remote appliance Control System using Mobile Phone.

SEM-90. PC Controlled Wireless robot.

SEM-92. RF Remote controlled Land Rover.

SEM-95. TV Remote Controlled PC.

SEM-98. Mobile phone DTMF technology controlled irrigation/ agricultural motor control system.

SEM-101. IR TV remote Controlled robot.

SEM-116. DTMF Mobile phone controlled PC.

SEM-135. RF based home security system.

SEM-144. Mobile phone based secure password door controlling system.

SEM-149. DTMF operated live human being detecting Robot.

SEM-165. Industrial device switching through RF technology.

SEM-178. DTMF controlled soil-moisture sensor.

SEM-62. PC Controlled Industrial Devices.

SEM-75. Micro controller based Heartbeat Monitor with display on PC.

SEM-17. RFID based security access control systems.

SEM-85. GPS Based Bus/Train station name announcement system using APR9600 based voice module.
SEM-113. GPS and Microcontroller based Geographical location Identification System.

SEM-74. Microcontroller based Heartbeat Monitor with LCD Display

SEM-153. Human body temperature and heart rate monitoring on LCD display.


SEM-111. Construction of cooking gas leakage sensor and alarming system.


SEM-114. Real-time burglar alarm system using PIR Sensor (Passive Infrared Sensor)

SEM-115. Microcontroller based bank lockers safety system using digital key password with door access facility.

SEM-117. Automatic Door opening and Room Illumination Control system using IR and LDR sensors.

SEM-118. Object counter for Bottle filling industries with Alpha Numeric LCD display.

SEM-121. Highly sensitive LDR based power saver for street light control system.

SEM-122. Microcontroller based automatic active Phase selector for single phase load from three phase supply.

SEM-126. H-Bridge and PWM based DC Motor direction and speed control system

SEM-127. Real time Car battery monitoring and low voltage alert system

SEM-125. Interfacing High voltage device to Microcontroller using optical isolation technology.

SEM-128. Triac and zero crossing detector based lamp dimmer.

SEM-130. Solar cell based mobile phone battery charger.

SEM-141. PIR based intrusion detection system with letter box information.

SEM-142. Real Time Clock based automatic college bell ringing system along with temperature display.

SEM-145. Microcontroller based locker security system with auto alerting and punishing system.


SEM-156. Solar Powered industrial boiler with temperature display.


SEM-168. RADAR Simulation with Optical sensor.

SEM-176. A multi agent multi sensor based security system for intelligent building
SEM-177. Automatic LDR based window blinds control system.

SEM-100. Microcontroller based Visible Light follower robot

SEM-103. Real-time clock based automatic street light controlling system with LDR based backup control system

SEM-104. Automatic object counting system for conveyer belt system

SEM-105. Bi-directional visitors counter and display system with max capacity alarm

SEM-78. Micro controller based Multiple Device Control based on Change in Input Frequency

SEM-80. PIR Sensor based Intrusion Detection System.

SEM-82. Interfacing Microcontroller to Cell phone graphical display.

SEM-93. Temperature sensor driven automatic DC motor based fan speed controlling system.

SEM-70. Microcontroller based Solar Tracker with Stepper Motor Control.

SEM-194. Real-time clock based sensor less solar tracking system.

SEM-195. Solar based automatic water level sensing and water pumping system for next generation apartments.

SEM-71. Automatic Room Illumination Control.


SEM-67. Digital Tachometer (Non-contact).

SEM-59. Frequency Locked Loop DC Motor speed monitoring and control system.

SEM-60. Microcontroller based Vehicle count and speed display system for high ways.

SEM-52. Voice enabled devices switching for visually impaired.

SEM-46. Liquid dispensing system with adjustable quantity for industrial use.

SEM-56. Transformer oil temperature monitoring with automatic Circuit Breaker operation.

SEM-42. Soil Moisture sensor based intelligent irrigation water pump controlling system.

SEM-35. Ultrasonic Sensor based travel assistant for blind people.


SEM-40. UPS battery monitoring system with automatic battery changeover.

SEM-31. PIR based energy monitoring system for corporate Computers and lighting system.

SEM-01. High power LED based intelligent streetlight controlling system with automatic brightness and vehicle counter using vehicle presence sensor.
TOUCH SCREEN BASED PROJECTS

SEM-183. Designing of Haptic Restaurant.

SEM-184. Haptic based speaking micro controller.

SEM-185. Designing of Haptic Keypad with magnetic door lock system

SEM-182. Electronic Touch home.

SEM-05. Image based password authentication for Illiterates with Touch screen.

SEM-08. Touch screen based temperature monitoring and control system.

SEM-186. Home appliances controlling using resistive touch screen

SEM-11. Touch screen based Nurse/attendant calling system for physically impaired.

SEM-187. Bank locker accessing using touch screen

SEM-18. Touch screen operated liquid dispensing system

SEM-29. Touch screen controlled motor speed and direction controlling system.

SEM-41. Touch screen controlled lamp dimmer for next generation apartments.

SEM-91. 4-wire resistive Touch screen controlled Robot.

SEM-108. Touch screen Controlled PC

Finger prints Authentication projects

SEM-377. Students marks display on PC by accessing from Finger print module.

SEM-374. Authenticated device switching based on Fingerprint and Keypad

SEM-378. Dual security access control system based on finger print and Keypad

SEM-373. Finger print and PC based student attendance logging into notepad.

SEM-375. Car door and ignition unit accessing based Fingerprint.

SEM-376. Library Automation with user defined finger print accessing.

SEM-372. Finger authentication based Door opening and automatic closing system
RFID PROJECTS

SEM-383. Electronic Passport using RFID
SEM-384. GSM based smart information system for lost ATM card
SEM-238. Intruder detection and wireless alerting using RFID and Burglar Alarm
SEM-17. RFID based security access control systems
SEM-86. Microcontroller and RFID based Intrusion Avoidance Systems.
SEM-87. RFID based vehicle license plate registration and monitoring system. Very useful for Traffic police to identify stolen vehicles.
SEM-88. RFID based vehicle access control system.
SEM-97. RFID based farmhouse animal identification system.

I-Button Projects

SEM-172. I-Button and keypad based digital door lock system
SEM-175. Vehicle access control system based on I-Button.

GPS BASED PROJECTS

SEM-09. Location driven car music player. (Plays devotional songs near temples, shuts at home etc.)
SEM-10. GPS based vehicle location tracking system.
SEM-13. GPS based universal clock. Gets the time from satellites and displays on LCD.
SEM-20. GPS based border alert system for fishermen.
SEM-22. Travel assistant for blind with dynamic user input for location based alerts
SEM-24. GPS based station name announcement and display system for Trains/buses
SEM-25. Microcontroller and voice based alerting system for blind people with GPS enabled location identification.

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Ameerpet: A-8, 2nd floor, Eureka court, beside Image hospital, Ameerpet, HYDERABAD – 73.
SEM-33. GPS based Virtual distance measuring tape with LCD. Very useful for roads and buildings department. One man operable and works on anywhere on earth.

SEM-34. GPS based Speedometer for boat/ship with live speed display and speed limit alerts.

SEM-85. GPS Based Bus/Train Stop announcement system using APR9600 based voice module

SEM-113. GPS and Microcontroller based Geographical location Identification System.

MEMS accelerometer projects

SEM-28. MEMS Accelerometer controller Wheel chair


SEM-188. Gestured controlled lamp dimmer (Useful for power conservation)

SEM-07. Virtual dancing bells for classical dancers.

SEM-160. Gestures controlled speaking Microcontroller

SEM-161. Controlling of powered devices through gestures.

SEM-189. Motion based password for device switching.

SEM-190. Intelligent gestured controlled PC.


SEM-21. MEMS Accelerometer based digital photo frame with automatic position/view adjustment system (similar to digital cameras)
Tongue Drives Assistive technology

SEM-150. Controlling of powered devices using Tongue motion.
SEM-151. Tongue controlled speaking Microcontroller.
SEM-152. Tongue controlled wheel chair.
SEM-192. PC controlling through tongue motion.

WIRELESS TECHNOLOGY PROJECTS

SEM-02. GSM based Irrigation Water Pump Controller for Illiterates (No SMS knowledge required).
SEM-04. Microcontroller based Wireless matchbox with digital lantern
SEM-12. Mobile phone controlled four-legged walking robot with speed and direction control.
SEM-19. Infrared (IR) remote controlled Muscle Stimulator with duration and intensity control
SEM-26. Live Human being detection wireless remote controlled Robot. (Useful for detection of terrorists hiding inside buildings).
SEM-30. SMS based digital Notice board with display on Monitor or LCD display.
SEM-32. Remote control of critical software applications with mobile phone.
SEM-36. Mobile phone controlled intelligent Robot.
SEM-38. DC Motor Speed and direction controller using mobile phone.
SEM-39. Mobile phone controlled Street Light monitoring and control system with automatic day/night switchover.
SEM-43. DTMF mobile phone controlled dam water gates controlling system with high-level protection.
SEM-44. Motor Speed and direction control system using Infrared Light sensor.
SEM-54. RF transceiver based energy meter monitoring system. (Energy Meter reading on PC over wireless comm.).
SEM-63. DS1307 and Microcontroller based TV remote controlled Digital Clock.
SEM-64. Password protected GSM based Device control.
SEM-65. Wireless TV Remote controlled password protected dual Stepper Motors Controlling system
SEM-66. RC5 IR Based Remote Device Switching for Industrial purpose.
SEM-68. Wireless Digital Frequency Meter with display on PC.
SEM-73. RF Control of Induction/DC/Stepper Motor & Other Industrial Loads.

SEM-81. PIR and GSM based Home security system.

SEM-83. Radio Frequency based wireless remote controlled digital camera with high power focus LED.

SEM-84. DTMF Based Remote appliance Control System using Mobile Phone

SEM-90. PC Controlled Wireless robot.

SEM-92. RF Remote controlled Land Rover.

SEM-95. TV Remote Controlled PC

SEM-98. Mobile phone DTMF technology controlled irrigation/ agricultural motor control system

SEM-101. IR TV remote Controlled robot.

SEM-116. DTMF Mobile phone controlled PC.

SEM-133. Checking and auto control of water level using wireless sensor.

SEM-135. RF based home security system.

SEM-137. RF based child missing alert system.

SEM-140. Wireless 3-phase motor starter using RF technology.

SEM-143. Smart zone based Vehicle speed control system based on RF

SEM-144. Mobile phone based secure password door controlling system.

SEM-149. DTMF operated live human being detecting Robot.

SEM-162. IR TV remote based device switching

SEM-164. Toll gate operating system using RF technology.

SEM-165. Industrial device switching through RF technology.

SEM-166. Wireless speed and direction control of DC motor through RF technology

SEM-169. RF remote based toll gate operating system

SEM-170. Industrial device switching through RF technology.

SEM-171. RF technology based digital locker system

SEM-178. DTMF controlled soil-moisture sensor.

SEM-180. Feedback Controlled Devices with Advance Security using Mobile Phones
ROBOTIC PROJECTS


SEM-229. Security management system with hall sensor for oil industries

SEM-298. IR based intelligent Automatic washbasin / mirror lamp controller

SEM-152. Tongue controlled wheel chair.

SEM-28. MEMS Accelerometer controller Wheel chair


SEM-89. PC controlled wired robot

SEM-163. AUTONOMOUS SURVEILLANCE ROBOT

SEM-149. DTMF operated live human being detecting Robot.

SEM-143. Smart zone based Vehicle speed control system based on RF

SEM-101. IR TV remote Controlled robot.

SEM-92. RF Remote controlled Land Rover

SEM-91. 4-wire resistive Touch screen controlled Robot.

SEM-90. PC Controlled Wireless robot.

SEM-36. Mobile phone controlled intelligent Robot.

SEM-102. Automatic Metal Detection and alerting Robot

SEM-26. Live Human being detection wireless remote controlled Robot. (Useful for detection of terrorists hiding inside buildings).

SEM-12. Mobile phone controlled four-legged walking robot with speed and direction control.

Heartbeat sensor projects

SEM-248. Image based calling system for heartbeat patients with heartbeat monitoring
SEM-74. Microcontroller based Heartbeat Monitor with LCD Display
SEM-153. Human body temperature and heart rate monitoring on LCD display.
SEM-75. Micro controller based Heartbeat Monitor with display on PC.

Wired communication

SEM-51. High voltage fuse blown indicator with display on PC with optical isolation between PC and HV bus bars
SEM-62. PC Controlled Industrial Devices.
SEM-75. Micro controller based Heartbeat Monitor with display on PC.
SEM-89. PC controlled wired robot.
SEM-106. Microcontroller PC driven moving message display on alpha-numeric LCD.
SEM-123. PC Based stepper motor control for robotic applications
SEM-108. Touchscreen Controlled PC
SEM-190. Intelligent gestured controlled PC.
SEM-192. PC controlling through tongue motion.

Other embedded projects

SEM-14. Digital vehicle speedometer with speed limit setting.
SEM-15. Microcontroller based digital clock with LCD
SEM-49. Energy meter per-day average, Max and Min Load display on LCD
SEM-50. High voltage fuse blown indicator with Voice based announcement system
SEM-57. Timer based Electrical Oven temperature monitoring and control for Metal Industries
SEM-58. Timer based automatic power cutoff for industrial sealing/packaging machines.
SEM-61. Microcontroller based refrigeration control system.

SEM-69. Construction of Digital Voltage and Current meter with High and low level alerts

SEM-76. Micro controller based Wireless Temperature Measurement

SEM-77. Micro controller based Closed Loop Temperature Control

SEM-94. Pulse steel method AC motor speed control using Triac and optically isolated diac

SEM-96. Industrial High Voltage Transformer protection against overheating of transformer oil

SEM-99. Construction of Prepaid Energy (KWH) Meter

SEM-107. LDR based automatic lamp illumination controller with High Power/Intensity LED lighting (PWM control)

SEM-109. Automatic washing machine motor control system

SEM-112. Microcontroller based temperature driven automatic 230V Fan speed controlling system

SEM-118. Object counter for Bottle filling industries with Alpha Numeric LCD display

SEM-119. AC 230V over and under Voltage Protection for High Voltage Electrical Appliances

SEM-124. Microcontroller based Three Phase Load safety implementation with phase fault detector

SEM-126. H-Bridge and PWM based DC Motor direction and speed control system

SEM-129. Infrared sensor based intelligent Hand dryer with hot air blower

SEM-136. REALTIME PANTRY INFORMATION SYSTEM USING RS-232 (Can transmit information till 30Mtrs)

SEM-138. Microcontroller based multiple devices controlling using one switch

SEM-139. Microcontroller based Thermometer

SEM-141. PIR based intrusion detection system with letter box information

SEM-142. Real Time Clock based automatic college bell ringing system along with temperature display

SEM-145. Microcontroller based locker security system with auto alerting and punishing system

SEM-146. Microcontroller based Robot controlled through PC with head lamp vision

SEM-147. Industrial vehicle counter and automatic gate opening system

SEM-148. Obstacles detecting Robot with ultrasonic sensors

SEM-157. Automatic Railway gate operating system

SEM-159. Automatic bus information announcement and display system
Non-Micro controller projects (555 Timer, LM358, LM386, LM324)

SEM-327. Design of Timer based industrial/Home Automation with time setting value using Taper POT using 555 Timer.

SEM-345. RF controller wireless Lamp Dimmer in 16-Steps with TRIAC

SEM-346. Automatic power failure indication system

SEM-347. Wireless power transmission

SEM-348. Design of low cost temp control system for solar cell lamination machine

SEM-349. Soil moisture& temperature based irrigation water pump controlling system.

SEM-350. Automatic active phase selector for 1 phase load from 3 phase using Logic gates

SEM-351. Design of an Inverter with battery low & over load indicator

SEM-352. Simple walking robot by coat hanger walker

SEM-326. Joystick controlled wheel chair.

SEM-300. TRIAC based four step touch dimmer

SEM-295. Hand cranked dynamo based energy generation system for emergency headlamp applications for mining workers and engineers who work under ground and dark conditions

SEM-210. Highly sensitive ear.

SEM-344. Home security based on LASER lighting system.

SEM-345. RF controller wireless Lamp Dimmer in 16-Steps with TRIAC

SEM-215. Alcohol detector with automatic vehicle (DC motor) controlling

SEM-251. Voice based obstacle detection alerts for blind

SEM-221. Electronic Nose.

SEM-323. Construction of emergency light with automatic switch ON/OFF and battery protection.

SEM-324. Implementation of artificial eye for intelligent line following Robot Application.

SEM-130. Solar cell based mobile phone battery charger

SEM-223. Advanced automatic irrigation system with day and night sensing and Auto controlling of motor

SEM-321. Digital device switching with touch input for ON/OFF
SEM-257. RF controlled Intelligent Baggy Robot
SEM-220. RF based digital lantern using Encode and Decoder
SEM-267. MOTION SENSOR FOR SECURITY LIGHT
SEM-309. Solar fencing: to prevent crop damage by animals, gives mild electric shock, which is safe and can be demonstrated to students.
SEM-310. Design of 100Watt efficient inverter
SEM-315. DC light dimmer controlling with 555 Timer
SEM-316. Design of metal detector using 555 Timer with buzzer alert
SEM-317. Speed controlling of DC motor by PWM using 555 Timer.
SEM-341. Construction of Cooking gas leakage sensor and alarming system
SEM-342. Industrial and Home Security System based on smoke and Fire sensors
SEM-343. PIR based intrusion detection system with letter box information using comparator
SEM-338. PIR Sensor based Intrusion Detection System
SEM-337. Automatic Room Illumination Control
SEM-334. Ultrasonic Sensor based travel assistant for blind people
SEM-333. PIR based energy conservation system using comparator
SEM-332. Speaking device for deaf and dumb.
SEM-211. Knock alarm with High efficient Amplifier
SEM-270. Design of IR transmitter and IR receiver for Shopping malls using Comparator
SEM-325. Mail box alerting system by using 555 Timer
SEM-320. Servo motor testing and direction controlling.
SEM-266. LAPTOP AUDIO AMPLIFIER
SEM-269. Design and Construction of Ultrasonic sensor
SEM-271. IR based Home/Industrial Automation using 555 Timer
SEM-273. Black Color Identification
SEM-275. Green Wind Energy for rural electrification

SEM-284. Mini UPS system

SEM-292. Solar based E-Uniform for soldiers who work at extreme high temperature or extreme low temperature (same uniform can be used to warm up or cool down body temperature)

SEM-294. Intelligent IR based automatic highway lighting system with day / night sensor

SEM-298. IR based intelligent Automatic washbasin / mirror lamp controller

SEM-306. Sound operated baby cradle... switches on relay/motor when baby cries also the music

SEM-308. Automatic Water Tap for water saving... IR obstacle with cooler motor

SEM-311. Controlling of Servo motor by using 555 Timer.

SEM-312. Effective light operated device switching with efficient transistor

SEM-313. Electronic eye for night device switching using 555 Timer

SEM-314. LDR based device switching with intensity controlling

SEM-293. High sensitive Alcohol sensor with auto car ignition disables function

SEM-319. Touch based device switching with efficient transistor.

SEM-318. Controlling of digital device with digital input to 555 Timer

SEM-322. Highly efficient Audio Amplifier.

SEM-339. Real-time burglar alarm system using PIR Sensor (Passive Infrared Sensor)

SEM-176. A multi agent multi sensor based security system for intelligent building


SEM-335. Automatic Intelligent Plant Watering System using Comparator