

FINAL YEAR PROJECTS

NCCT

**DOMAIN WISE
PROJECTS TITLES**

EMBEDDED SYSTEMS PROJECTS

Microcontroller | VLSI | DSP

Robotics | Matlab

www.ncct.in

ncctchennai@gmail.com, projects@ncct.in

NCCT, 109, 2nd Floor, Bombay Flats,

Nungambakkam High Road,

Nungambakkam, Chennai – 34

Above IOB, Next to ICICI

28235816, 9841193224

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

PROJECT DOMAINS & CONCEPTS

- 1. MEMS (MICRO ELECTRO MECHANICAL SYSTEM)**
- 2. ZIGBEE / BLUETOOTH BASED PROJECTS**
- 3. JAMMERS / REPEATERS**
- 4. TOUCH SCREEN SYSTEM**
- 5. RFID / RF / EMPCR BASED**
- 6. BIO MEDICAL SYSTEM**
- 7. COMMUNICATION SYSTEM**
- 8. ROBOTICS & AI BASED PROJECTS**
- 9. FINGER PRINT BASED**
- 10. WIRELESS COMMUNICATION**
- 11. NETWORKING PROJECTS**
- 12. GPS BASED PROJECTS**
- 13. GSM / GPRS / CDMA BASED**
- 14. BIOMETRICS SYSTEM**
- 15. CAN BASED PROJECTS**

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

16. VOICE RECOGNITION SYSTEM

17. ENCRYPTION & DECRYPTION TECHNOLOGY

18. MOBILE COMPUTING

19. SECURITY & ACCESS CONTROL SYSTEM

20. SENSOR BASED PROJECTS

21. IMAGE PROCESSING & MANAGEMENT

22. AUTOMATION & CONTROL SYSTEM

23. AUTOMOTIVE PROJECTS

24. WIRELESS SENSORS NETWORKS

25. POWER ELECTRONICS

26. ELECTRICAL PROJECTS

27. ENERGY CONSERVATION

28. ENERGY GENERATION & CONSUMPTION

29. ENERGY METER

30. HIGH VOLTAGE ENGINEERING

31. PLCC

32. POWER QUALITY-HARMONICS & ACTIVE POWER FILTERING

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

33. POWER FACTOR CORRECTED/IMPROVEMENT CONVERTER

34. VOLTAGE LIFT / MULTIPLE OUTPUT CONVERTER TOPOLOGIES

**35. CONCEPT OF ZERO VOLTAGE / ZERO-CURRENT SWITCHING /
RESONANT CONVERTERS**

36. HIGH PERFORMANCE SWITCHING MODE CONVERTERS

37. POWER SYSTEM

38. THERMAL

39. INSTRUMENTATION PROJECTS

40. MEASUREMENT & CONTROL SYSTEMS

41. PROCESS CONTROL SYSTEM

42. WEIGHING SYSTEMS

43. VIRTUAL INSTRUMENTATION PROJECTS

44. LEVEL & ANALYTICAL MEASUREMENT

45. IVRS

46. ARTIFICIAL INTELLIGENCE BASED PROJECTS

47. FUZZY LOGIC BASED PROJECTS

48. NEURAL NETWORKS BASED PROJECTS

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

49. SCADA BASED PROJECTS

50. PLC & DATA ACQUISITION PROJECTS

51. DCS

52. MESH NETWORKS

53. VEHICULAR MANAGEMENT

54. ACCESS CONTROL

55. AUTOMATION & CONTROL

56. AUTOMOBILE

57. TELECOMMUNICATION

58. DEVICE CONTROL

59. ETHERNET CONTROLLER

60. ELECTRO MECHANICAL

61. INDUSTRIAL APPLICATION

62. MOTORS, DRIVES & CONTROL - AC, DC, STEPPER MOTORS

**63. INTELLIGENT TRANSPORT SYSTEM - RAILWAYS / AIRWAYS /
TRANSPORT**

64. SMS CONTROL BASED

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

65. SOLAR / WINDMILL

66. TTCAN (TIME TRIGGERED CAN)

67. ULTRASONIC BASED

68. USB CONTROLLER

69. VECTRONICS

70. IMAGE PROCESSING PROJECTS

71. COLOR IDENTIFICATION IN REAL TIME BASED

72. BIOTELEMETRY

73. MECHANICAL PROJECTS

74. MECHATRONICS PROJECTS

75. MODEL BASED PROJECTS

Why NCCT – Promise for the Best Projects

**Quality
Learning**

Flexibility

**On Time
Completion**

**Complete
Guidance**

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- American Sign Language based Hand Gesture Recognition & Performance
- Driver Fatigue Accident Prevention using Eye Blink Sensor
- Implementation of Automated Multi Story Car Parking
- Automatic Touch Screen based Vehicle Driving System
- Judo Coat – Design & Implementation
- Intelligent Train Engines and Hi Jack Control System or RF – Vehicle Hi Jack – Train
- Eye Ball Controlled Automatic Wheel Chair
- Ultrasonic based Vehicle Parking Guidance System
- Wireless Based Railway Bridge Damage or Track Fault Notification with Alarm Systems
- Alcohol Breath Analyzer / Alcohol Sensing Vehicle Starter System
- Automatic Railway Gate Control & Track Switching
- A Hands Gesture System of Control for an Intelligent Wheelchair
- MeshEye: A Hybrid – Resolution Smart Camera Mote for Applications in Distributed Intelligent Surveillance
- A Versatile Drop Foot Stimulator for Research Applications
- Portable Lift for Carrying House Hold Items
- PCB Drilling Machine using Cartesian Bot
- Railway Pedestrian Crossing between Railway Platforms without Staircase

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- Conveyor for Grade Selector and Diverter Applications
- Implementation of Secured Black Box in Aircraft
- A Distributed Measurement System to Estimate Plant Water Content in Agricultural Fields based on Wireless Sensor Networks
- A Novel Rear-End Collision, Accident Avoidance, Distance Measuring using Ultrasonic Technology
- Driverless Automated Car System
- Design and Implementation of a Multiplex Parking System and Toll Collection based on Time Management Techniques for Identifying the Parking Violation based on Expiry Time
- Automated Drilling Machine
- Touch Screen based Wheel Chair Implementation
- Eye Ball Movement based Equipment Control
- Electronic House – A Well Equipped Modern House
- Design & Implementation of Child Safety Device

Why NCCT

Quality Training	Excellent Support
Complete Guidance	On time Completion

NCCT, 109, 2nd Floor, Bombay Flats, Nungambakkam High Road, Nungambakkam, Chennai – 34. <http://www.ncct.in/>

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

ROBOTICS

- Staircase Climbing Robot – Implemented in Multi-Domain Approach
- Helping Hand for Disabled Person - Hand Gripper Robot
- Robotic Vision and Color Identification System with Solenoid Arm for Colored Material Separation
- Library Robot - Path Guiding Robotic System with Artificial Intelligence using Microcontroller
- Boatbot – Design & Implementation
- Advanced Collision Avoidance Solar Powered Robot Car with Automatic Charger - Seek for Sun Light and Charges when the Battery Goes Down
- Mobile Robot -- Wireless Ai based Intelli Mobile Robot for Multi Specialty Operations
- Smart Tanker Robot for Security Operations in the Protected Area with Wireless Secured Communication
- Flying Multisensor - Smoke, Fire, Temperature, Gas, Metal & Intruder based Security Robot – Zigbee
- Voice Controlled & Activated Wheel Chair Robot for Physically Challenged
- Intelli Robotic Wheel Chair for Specialty Operations with Key Operations and Advanced Path Planning Routing System
- Alive Human Being Detector in War Fields / Affected Areas using WAP with Model & Camera

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- Robot with Search and Rescue Feature for an Accident Area or Natural Disaster Area
- BotRobo – Tanker & Sound Detecting Robot
- Advanced Robotic Vacuum Cleaner with Wall Sensors and RF Remote Controller for Systematic Cleaning
- Snake Robot – Serpentine Robot for Industrial Inspection and Surveillance
- SMS based Controller – Robot Control
- Remote Controlled Water Splash Robot for Gardening
- Smart AI based Image Capturing Robot with Sensors Network
- Cell Phone Controlled Ai based Five Axis Robot for Multi Specialty Operations
- PC Controlled Advanced Wireless Robot Vehicle with Camera for Bomb Detection / Human Surveillance Application for Dangerous Areas
- The OmniTread Serpentine Robot for Industrial Inspection and Surveillance
- Design & Implementation of Grass Shredding Robot
- Autonomous Robot with Obstacle Avoidance, Drive Wheel Synchronization and Line Tracking Capability
- Wall Follower Robot with the Help of Multiple Artificial Eyes

**Any Robotics
Projects, IEEE
Robotics
Projects with
Model, Kit can be
designed and
Developed at
NCCT**

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- Medical Robot – Design & Implementation
- PCB Drilling System using Robot Known as Cartesian Robot
- Remote Robot Control System based on DTMF of Mobile Phone
- Sensor Rich Tele-Operational Mode Robotic Bush Fire Fighting
- Robotics Assistance to Protection Services: Users Requirements
- Motion Detection, Robotics Guidance and Proximity Sensing using Ultrasonic Technology
- Intelligent Escort Robot Moving Together with Human
- Intelligent Robots Need - Intelligent Vision: Visual Perception
- Towards the Autonomous Navigation of intelligent Robots for Risky Interventions
- Testing Multi-Robot Systems for Operation in Risky Environments
- The Watchdog - Robot inspector for An Area That Is Prone to intruders and Possible Fire Hazards
- Usability Analysis of a PDA-based User interface for Mobile Robot Teleoperation
- Design and Development of Line Follower Robot using the Principle of Reflection of Light Rays
- Dynamic Robot Networks for Search and Rescue Operations
- Communication Issues in Distributed Multisensory Robotics
- An intelligent Mobile Robot Navigation Technique using RFID Technology
- Walking Robot for Impaired Peoples – Muscle Weakness

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- An Autonomous Assistant Robot for Book Manipulation in a Library
- Self Guided Pedestrian Crossing Robot for Blinds and Elderly Persons – Walking Stick
- Electromagnetic Magnetic Type Pick and Place Robot for Materials Handling
- Rescue Robotics for Biomedical and Life Saving with Artificial Intelligence
- Sovereign Robot for Light Density
- A Novel Robot System for Surface inspection and Diameter Measurement of Large Size Pipes
- A Robust Architecture for Autonomous Robot Navigation and Control
- A Mobile Platform for Nursing Robots
- Advanced Human Detecting and Self-Guided Robotic Waiter for Hotels
- Self Guided Object Tracking & Following Mobile Robot for Factories & Mining Areas
- Walking Robot with Hyper Line Tracker using IR Sensors for Uneven Terrain
- Vision Guided Law Enforcement Robotic Helicopters – A Revolutionary New Interface
- Advanced Miniature based Wireless Camera Monitoring System for Wildlife Application
- An Assistive Robotic Device that CAN Synchronize to the Pelvic Motion During Human Gait Training

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- Automatic Collision Avoidance and Real Time Distance Monitoring
- Automatic, Advanced Robotic Arm for Welding in Automated Assembly Line
- Cell Phone based Materials Handling Robot
- Advanced Robotic Pick and Place Arm and Hand System
- Cell Phone based Robot Direction & Alive Human Detecting
- Cell Phone Controlled Fire Fighting Robot for Relief Operations
- Cell Phone Controlled Smart Image Capturing Robot
- Collision Avoidance By the Fusion of Different Beam-Width Ultrasonic Sensors & Rescue Robot using PIR Sensor
- Design & Implementation of Real Time Security Guard Robot using GSM CDMA Networking
- Design and Development of Obstacle Sensing and Object Guiding Robot
- Distance Monitoring and Object Detecting Robot By Radio Frequency Technology
- Distributed Sensors Fusion for Object Position Estimation and Approaching By Robotic System
- Drishti: An Integrated Navigation System for Visually Impaired and Disabled
- Electronic Nose for Robotics
- Fire Ball for Fire Extinguishing with Robot Model
- Fire Sensing Robot with Auto Dial-Up Facility & No Extinguisher

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- Gas Detection Robot for Atomic Power Station
- Human Step Rehabilitation using A Robot Attached to the Pelvis
- Hyper Line Tracking Control of Robotic Car using Track Sensors for Industrial Application
- Intelligent Fire Sprinkler System
- Fire Fighting Robo using Ultrasonic Technology
- Intelligent Remote Missile Path Guide Monitoring System for Military Application
- IVRS based Control of Alive Human Being Detector with Voice Feedback
- Motion Activated Wireless Video Capturing System for Security Wild Life Application
- Non GPS Navigation with the Personal Dead Reckoning- PDR System
- Path Guiding Robotic System with Artificial Intelligence using Microcontroller
- PC Controlled Alive Human Being Detector in War Fields / Affected Areas using WAP with Model & Camera – PIR Sensor for Rescue Operations with 2 Way Communication
- Programmable Surface Cleaning Robot using Blowers
- Remote Guided Automatic Combat Gun Vehicle with Laser Target and 2.4ghz Wireless Camera Monitor
- SMS Controlled Intelli Robot Materials Handling
- Most Advanced Land Rover with Wireless Remote Control using PC with Camera and Solar Cell Power

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- Rescue Robot for Military Purpose with Voice Annunciation using PIR Sensor and Metal Detection
- RF - Remote Location Controlled Alive Human Being Detector Model
- RF Remote based Fire Fighting Robot for Relief Operations with Auto Dialer Facility
- Robotic Exploration in Under Water with Remote RF Controller and 2.4 Ghz Automatic IR Cameras for Night Vision and Remote Receiver
- Robotic Technology Integration for Army Ground Vehicles – Zigbee
- Automatic Human Seeker Robot with Human Body Heat Scanner
- Robust Balance Control of A one Legged, Pneumatically Actuated, Acrobat-Like Hopping
- SMS based Alive Human Detector in Affected Areas / War Fields
- SMS enabled towards Command & Control Networking of Cooperative Autonomous Robotics for Military Applications
- The Guide CAN – Applying Mobile Robot Technologies to Assist the Visually Impaired
- A Robotic System for Underground Coal Mining
- Ultra Sound Guided Collision Avoidance and Navigation Robotic System for Multiple Applications
- Visual Surviving and Multi Directional Light Signature Sensing and Approaching Robot with Edge Detector for Tunnel Application

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- Climbing and Walking Robot for Uneven Terrain and Disaster Area Application
- Voice based Path Control of Robot Via the PC using RF Communication Technology
- Voice Control / Speech Recognition Alive Human Detector
- Voice Control / Speech Recognition Fire Fighting Robot for Relief Operations
- Voice enabled Image Capturing and Transferring to PC using Robot
- Voice enabled Pyroelectric Infrared Sensor based Security Alert System for the Safer Guarding
- Walking Robot with Infrared Sensors / Light Sensors / RF Sensor / Tactile Sensors
- Wireless AI based Fire Fighting Robot for Relief Operations with Two Way Communication
- Zigbee enabled Alive Human Being Detector Model with Camra

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

FINGER PRINT

- **Finger Print Verification for Passport Checking**
- **Finger Print based ATM Authentication & Money Management System**
- **RF ID & Finger Print based Campus Access Control System**
- **RF ID & Finger Print based Electronic Passport – Multi Management System**
- **Finger Print based Campus Management System**
- **Finger Print based Digital Locker Security**
- **Finger Print based Digital Voting Machine**
- **Finger Print based Physical Access Control Vehicle Immobilizer**
- **Finger Print Identification / Recognition based Equipment Control System**
- **Enterprise Security using USB Finger print Scanner**
- **Finger Printing Passports**
- **Bio-Finger Sensing Gate Opener for Security**
- **Finger Print Authenticated, Access Control & Automated Door Opening System**
- **Finger Print based Authentication and Controlling System of Devices**
- **Finger Print based Authentication, Access Control, Time, Attendance Management System**

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- Finger Print based Car Lock Security System
- Finger Print based Guard Alert System
- Finger Print based Inter Electromagnetic Door Locking System
- Finger Print based Time, Attendance & Library Management System
- Finger Print based Vehicle Access System
- Finger Print Recognition based Time Recorder with Weigh & Output
- Finger Print Identification based Home Automation with Advanced Sensor

**We develop Projects as per
your requirements;**

**We do implement IEEE paper
of your choice.**

**Any Project Customization
will also be done @ NCCT**

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

RF ID

- A Security Framework in RFID based License Plate
- GPS & RFID based Intelligent Guided Vehicle
- The Electronic Passport & The Future of Government Issued RF ID based Identification
- RF ID / Proximity based Multi Usage Card
- Person Identification System – RF ID System used for Tracking & Authentication Purposes Applying Back Scattering Technology
- RF ID Proximity based Checking & Detecting Expiry Date (S), Stock Updation
- Advanced and Intelligent Distant Vehicle Identifying and Automatic Entry System using Active RF ID
- Automatic Vehicle Toll Collection & Gate Entry Exit System using RF ID
- RF ID / Proximity based Pharma Health Card
- Providing Group Tour Guide by RFID s and Wireless Sensor Network
- A New Concept for Vehicle Localization of Road Debiting System using RF Id / Active RF System – Intelligent Vehicles
- Automated and Unmanned Parking System using RFID Technology
- Advanced Digital Wireless Automatic Vehicle Register System for Highways

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- **Advanced Miniature Radio Collar Tracking System for Wild Life Application**
- **Automatic Locker Machine - Design & Implementation, using RFID & Embedded Microcontroller**
- **Intelligent Retail Business: Location based Services for Mobile Customers**
- **RFID based Animal Location Tracking and Identification System**
- **RFID / Active RF based Equipment/ Personnel Tracking in Hospitals**
- **RFID based Parking Lot Access and Control, Vehicle Tracking in Rental Lots**
- **RFID based Prescriptions in Automated Pharmaceutical Systems**
- **RFID based Virtual Gate Entry Control**
- **Security and Privacy in RFID and Applications in Telemedicine – Communications**
- **RFID based Customer Loyalty Programs**
- **RFID Asset Tracking & Monitoring**
- **RFID Applications Strategy and Deployment in Bike Renting System**
- **RFID based Automated Airline Baggage Systems**
- **RFID based Student Tracking System**
- **Secure Voting Through ATM Booths**
- **RF ID based Industrial Security System**

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- Automatic Shopping & Billing in Super Market
- A RFID System to Help Visually Impaired People in Mobility
- RF ID based Canteen Automation
- RFID Based Ration Card
- A Mobile RFID -Tracking Security System
- An RFID Application for the Disabled: Path Finder
- Application Field of RFID in Health Safety and Environment Management
- People / Visitors Tracking and Management with Area Localization / Monitoring and Warning System using E-Ticket and Super RFID for Amusement Park / Child Care / Play School in Real Time
- Performance Evaluation of Operational Parameters on RFID Controlled Conveyor System
- Personnel and Equipment Locating System and Tracking for Mining Solution using Super Active RFID Network Technology in Real Time
- In Amusement Park / Visitor using Super RFID with in/Out Time
- GIDS – A System for Combining RFID -based Site information and Web-based Data for Virtually Displaying the Location on Hand Held Devices
- An RFID based Pilgrim Identification System
- Super Active RFID and Remote Access through Telephone Line

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- Location based Human Identification and Tracking System using RFID
- Contactless Electromagnetic Proximity based Campus Management System
- Contactless Electromagnetic Proximity based Public Transport System
- Data Storage and Remote Data Access using Super RFID
- RFID based Automated Airline Baggage Systems
- RFID based Parking Lot Access and Control, Vehicle Tracking in Rental Lots
- RFID based Prescriptions in Automated Pharmaceutical Systems
- RFID based Unmanned Automated Electric Power Tariff Calculation by the Remote EB Station
- RFID – based intelligent Books Shelving System.
- RFID - based (SCEM) Supply Chain Event Management as (AIDC) An Automatic Identification and Data Capturing Technology
- RFID based Blood Analysis Identification
- RFID based Car Security Systems
- RFID based Equipment/Personnel Tracking in Hospitals
- RFID based Food Production Control
- RFID based Gas Cylinder Identification
- RFID based Multi Usage / Purpose Card System Design & Implementation

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- RFID based Patient Monitoring for Icu's
- RFID based Toxic Waste Monitoring
- RFID based Valuable Objects Insurance Identification
- RFID based Vehicle Tracking and Monitoring System
- RFID Fare Verification - Rf-Id Bus Pass System
- Super Active RFID Applied in Cold Chain Logistics / Transportation with Temperature Reading and Monitoring in Real Time
- Super Active RF Tag based Long Range Vehicle Data Access System for Traffic Monitoring with Multi Direction, Speed and Id for Automatic Data Access, Monitor and Analyzing
- Super RF Tag and Local Area Wireless Net Work Applied in Supermarket for Item Searching, Localization Guide and Purchase Goods Access and Automatic Bill Registration in Real Time
- Super RF Tag Applied in Hospital and Medical Care industry for Locating Major Assets and Personnel in Real Time using Miniature Active RF Network
- Super RF Tag Applied in Supply Chain & Logistics industry of One End Solution for Multiple / Combination of Data Process for Modern industry
- SIP-RLTS: An RFID Location Tracking System based On Sip
- Shopping Path Analysis and Transaction Mining based On RFID Technology
- Shortest Travel Distance for Full Reads on Least RFID Friendly Carton Stacking Configuration using Advance Doe Technique & Age Reproducibility & Repeatability

NCCT, 109, 2nd Floor, Bombay Flats, Nungambakkam High Road, Nungambakkam, Chennai – 34. <http://www.ncct.in/>

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- Super RFID Applied in Automatic Visitor / Tourist Guide information for Personnel Announcement and Visitor Evaluation System Replacing Conventional Guide
- Unmanned Automatic Target Approaching Vehicle Applied for Blind using Super Active RFID
- Utilizing RFID Signaling Scheme for Localization of Stationary Objects & Speed Estimation of Mobile Objects
- Supply Chain Asset Management and Warehouse / Stock Goods Searching System with Super Active RFID using Sensor Network

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

GPS

- **GPS and GSM based Biomedical Wearable Device for Remote Monitoring of Physiological Signals**
- **Anti Collision System in Railway & Location Monitoring using GSM and GPS – Intelligent Train System with GPS**
- **I Protect – Integrated Vehicle Tracking and Communication System with Vehicle Command Unit – An Ultimate tool for Tracking, Real Time Monitoring**
- **Passenger Information System using GPS**
- **Intelligent System for Hazardous Gas, Human Detection and Temperature Monitor Control Using GSM Technology**
- **Zigbee based Smart Vehicle System – Track, GPS based Vehicle Tracking, Protection & Security System**
- **An Automatic Collision Detection and Acceleration Control using Multi Zone Transmission and Reception through RF Technology and GSM Communication**
- **Anti Collision System in Railway using GSM and GPS**
- **GPS – Design & Implementation of 2 Way Communication System with Transmit & Reception of Data using RF**
- **GPS based Active Fleet Management- Featured Rich Automatic Vehicle Location Tracking, Collision Avoidance with Dual Communication using RF**
- **Advanced GSM based Theft Vehicle Identifying System using Remote PC**

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- GPS GSM based Aircraft Collision Detection & Avoidance
- GPS & GSM based Accident Alarm System
- Real Time GPS based Vehicle Parameter Monitoring with Intelligent Data Analysis
- GPS based Substation Implementation
- GPS based Intelligent Guided Vehicle with Collision Mitigation - Automatic Vehicle Location Tracking, Collision GPS - Route Tracking System using PC with 2 Way Dual Channel Communication
- Avoidance with Dual Channel Communication using RF
- Advanced Automatic Vehicle Crash Notification using GSM Technology
- Embedded based GPS for Telephone Exchanges
- Automatic Vehicle Locator (AVL) using Global Positioning System (GPS)
- GPS based Highway Monitoring & Control
- GPS enabled PC based Geographic Information System (GIS) & Routing Scheduling System
- Autonomous Navigation Tool (A.N.T.) - GPS based Navigation
- GPS based Air Craft Collision Avoidance
- GPS & GSM based Real Time Vehicle Tracking System
- GPS and GSM based Real Time Bus/Train Location Finder and Display on Earth's Map
- GSM and GPS based School Kids Tracking System.
- GSM based Automatic Irrigation Water Controller System

NCCT, 109, 2nd Floor, Bombay Flats, Nungambakkam High Road, Nungambakkam, Chennai – 34. <http://www.ncct.in/>

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- GSM based Highway Road Traffic Monitoring System.
- GSM based Home Security System to get intrusion Alerts Like Door/Windows Open Alerts onto Your Cell Phone
- GSM based Irrigation Control System
- Microcontroller based GPS Navigator with Google Earth interface
- Remote Control of Pc/Computer using GSM Modem or Cell Phone
- Standalone GPS Coordinates (Latitude, Longitude) Locator
- Global Positioning System used for Traction of Train

For IEEE Titles

For Domain wise Titles

For IEEE Titles

For Robotics Titles

For Power Electronics Titles

For Electrical Titles

For Motors, Drives Titles

For Project Abstracts, IEEE Papers

Pl visit – www.ncct.in

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

JAMMER

- GSM / CDMA / DCS Tri Band Jammer
- Cell Phone Jammer - Implementation of Highly Effective Mobile Cell Phone Jammer
- Blue Tooth Jammer for Security Application
- Hi End Temple Security System with Frequency Jammer
- GPS Jammer
- Microwave Spy Camera Jammer
- Effective Signal / Frequency Jammer System for Security & Protection
- All Band Radio Jammer for Military Application
- Advanced Radar Jammer for Military Application
- Anti Bomb Explosion Frequency Jammer
- Cell Phone Booster / Repeater
- Practical Implementation of Full Band Radio Jammer for Security Application

NCCT
Promise for the Best Projects

www.ncct.in
ncctchennai@gmail.com
28235816, 9841193224

VOICE

- Voice Controlled Intelli Robot for Multi Specialty Operations
- Voice based Activation and Control of Equipments
- Voice based Elevator Movement and Display
- Voice Control based Speed Control of Dc Motor
- Voice Recognition for Controlling Color Television
- Voice Communication Over Zigbee Networks
- Voice Control / Speech Recognition Alive Human Detector
- Voice Control / Speech Recognition Car Security System
- Voice Control / Speech Recognition Home Automation
- Voice Control / Speech Recognition Locker Security
- Voice Control / Speech Recognition Rescue Robot for Military Purpose using PIR Sensor and Metal Detection
- Voice Control / Speech Recognition Voting System
- Voice Operated Modern Restaurant System
- Voice Recognition based Access Control System for Door Opening & Closing using Microcontroller & Voice Hm2007 IC
- Voice Recognition based Robotic Car

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

IVRS

- **Finger Gesture Recognition using Flex Sensors with Voice Output**
- **Hand Talk using Flex Sensors with Voice Indication**
- **Intelligent Train System – Automation, Collision Avoidance, Signal / Unmanned Controlling, Moving Message Display, Voice Annunciation**
- **IVRS based Smart Networked Home - Home Automation System**
- **Zigbee based Wireless Multi Channel Home Automation System with IVRS**
- **IVRS based Students Mark Annunciation for their Parents**
- **IVRS based Electronics Televoting with Response & Feedback**
- **Industrial Automation and Control System IVRS - Remote Location using Remote Connection, with Immediate Voice Feedback**
- **Mobile to PC interface for Controlling of Devices using interactive Voice Response System**
- **Intelligent & Automatic Fire Security System using Interactive Voice Decoder and Telephone Line**
- **Categorized Alarm Annunciation with Voice Annunciation and Controls**
- **Prepaid Electricity Billing RF 2 Way Automation using Contact Less EMPCR Card & Reader with Voice Annunciation - IVRS**

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- IVRS based Robot Control with Response & Feed Back
- IVRS based Automatic E-Filing Tracking and Monitoring, Localization, Tracking Applied in Modern Administration Automation

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

ZIGBEE

- Zigbee enabled Pantry Updation - Wireless Network and Data Synchronization using Hand Held Device - Zigbee enabled 2 Way
- Automatic Employee Tracking System using Zigbee Network and I2c Memory Card Reader
- Zigbee based Wireless Weather Station
- Zigbee - College / Industry - Wireless Network and Data Synchronization using Hand Held Device
- Zigbee enabled ICU Care Taker - Life Support System
- ZIGBEE based Infant Incubator Parameter Sensing & Monitoring
- Real Time Passenger information System (RTPIS) using Zigbee Technology
- Development of Zigbee based Street Light Control System
- Development of Zigbee-based Electronics Ballast System
- Remote Power On/off Control and Current Measurement for Home Electric Outlets based on a Low-Power Embedded Board and Zigbee Communication
- Automated Roll Call with Palm based Device using Zigbee - SRD / ISM Band
- Zigbee Data / Voice Communication System for Industrial Application

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- Zigbee Device Detector for Safety Application
- Zigbee Enabled Speed Control of DC Motor
- Zigbee Voice Communication System for Industrial Application
- Hand Held Device - Restaurant Services Management & Attendance Monitoring, Data Transfer, Updation
- Zigbee Enabled Miniaturized Mote Control
- A Wireless Network based on the Combination of Zigbee and Gprs
- A Zigbee based Power Monitoring System with Direct Load Control Capabilities
- Bus Priority Control System based on Wireless Sensor Network (Wsn) and Zigbee
- Commercial Applications of Wireless Sensor Networks using Zigbee
- Custom Wireless Sensor Network based on Zigbee
- Design of Air Pollution Monitoring System using Zigbee Networks for Ubiquitous City
- Development of Zigbee based Street Light Control System
- Patient Monitoring System using Sensor Network based on the Zigbee
- Remote Engine Performance Monitoring and Logger System using Zigbee and I2c
- Remote Power on/off Control and Current Measurement for Home Electric Outlets based on A Low-Power Embedded Board and Zigbee Communication
- Realization of Home Remote Control Network based on Zigbee

NCCT, 109, 2nd Floor, Bombay Flats, Nungambakkam High Road, Nungambakkam, Chennai – 34. <http://www.ncct.in/>

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- System for Measuring Power Supply Parameters with Zigbee Connectivity
- Tea: Transmission Error Approximation for Distance Estimation Between Two Zigbee Devices
- The Implementation of Indoor Location System to Control Zigbee Home Network
- Wireless Automation of Unmanned Railway Crossing Gate Alert System using Zigbee
- Zigbee based Dynamic Control Scheme for Multiple Legacy IR Controllable Digital Consumer Devices
- Zigbee based Gas Leak Detection and Data Monitoring System
- Zigbee based Money Transfer System
- Zigbee based Monitoring System using Auto-Dialer
- Zigbee based Wireless Sensor Networks and Its Applications in Industry
- Zigbee Device Access Control & Reliable Data Transmission based Health Monitoring
- Zigbee for Building Control Wireless Sensor Networks
- Zigbee Source Route Technology in Home Application
- Zigbee Wireless Sensor in Industrial Applications

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

BIOMEDICAL

- **ASSIST - Automated System for Surgical Instrument and Sponge Tracking**
- **A Portable Wireless Eye Movement-Controlled Human-Computer Interface for the Disabled**
- **ICU - Wearable Biomedical Sensors & Systems -- Wearable Body Sensor Networks with Bp**
- **ICU - Smart Medicare Patient Monitoring System**
- **Infant Monitoring System**
- **Ultrasonic based Path Planning for the Blind Person**
- **Anesthesia Control System using Infusion Pump with Heart Beat Monitoring System**
- **Heart Beat Rate Monitoring System - RF based Wireless Heart Beat Rate Monitoring System**
- **Peritoneal Dialysis – Design and Implementation of Blood Purification System**
- **Stimulation of Paralyzed Muscle using IR**
- **Blood Pressure Analysis on Treadmill Environment**
- **Blind Stick with Audio & Video Interface**
- **Smart Cars for Physically Challenged / Disabled**
- **Smash – Smart Medical Automated System Handheld Device with Wireless Technology**
- **Monitoring System for Premature Babies**

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- **EyeBall Sensor for Automatic Wheel Chair Movement for Paralysed Patients**
- **Hand Talk – Assistive Technology for the Dumb**
- **Hospital Automation with Patient Monitoring**
- **Advances Home Care System for Patients (Adhoc)**
- **Glucose Level Monitoring and Predicting System**
- **Intelligent “Prescription Drugs Abuse” and Addiction Control System using RF / Proximity Cards**
- **A Wireless Bio-Implantable Device for Monitoring Vital Body Parameters of Transgenic Mice with Mems Technology**
- **Advanced Remote Temperature and Heart Rate Monitoring System**
- **Artificial Hands for Physically Disabled**
- **Artificial Weaning Analyzer using Neural Network / Neural Network based Vital Sign Monitor and Control**
- **Bed Side Patient Monitoring System with BP & RF**
- **Blind Identification and Equalization of FIR – Finite Impulse Response**
- **Complete Body Scanning System with BP & RF**
- **Defibrillator, External – ECG Monitoring Device While Transit**
- **Detection of Blood Cancer using Embedded Technology**
- **IGlass for Visually Impaired**
- **Intelligent Mobile based Patient Monitoring System**
- **Measurement of Inhaled / Exhaled Respiratory System**

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- **Medi Kit - Advanced Home Care System for Elderly Person Patients with Remote & Auto Dialer with BP**
- **Monitoring Functional Arm Movement for Home based Therapy After Stroke**
- **Recognition of Human Iris Patterns for Biometric Identification**
- **Wireless Telemetry for Line Data Transmission on A Mobile Unit**
- **Zigbee based Medi Care - Patient Monitoring System with WAP RF BP**

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

TRANSPORT

- **Vehicle Safety Speed Controller under Driver Fatigue using Eye Blink Sensor**
- **Intelligent Transport System using Wireless Technologies**
- **Density Traffic Analyzer - Traffic Control System for Ambulance Service Design & Implementation**
- **Blind Spot Location Identification - Bus Alert System for Vision Impaired People**
- **Vehicle Emission -- Automated Vehicle Emission Testing (Co2) and Issuing online Certificate**
- **Traffic Control System for Effective Ambulance Service – Design & Implementation**
- **Ticket Dispenser & Entry Lane Control Tower for Parking System**
- **Intelli Public Transport System – Bus Status – Arriving / Leaving / Breakdown indication System in the Bus Stop**
- **Intelligent E-Police and Traffic Violation Automatic Recorder System for Modern City Traffic using Most Advanced Wireless Sensor Technology in Real Time**
- **Intelligent, Automatic & Modern Traffic Light Controller based On Traffic Density**
- **Interactive Environmental Air Pollution Monitoring Automatic Phone Dialing System**
- **Automated Accident Identification, Detection via Vibration Sensors using RF Technology**

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- **Automated Bus Ticket Tariff Calculation using Identification of Destination Point**
- **Automated Car Parking System with Automatic Gate Opener**
- **Advanced Digital Wireless Entry / Exit Register System for Time Control in Bus Stand with Remote Monitoring using PC**
- **An Enhanced Parking Lot Service Model using Wireless Sensor Network**
- **Application of Fuzzy Logic in Intelligent Traffic Control Systems**
- **Automatic Auto Head Lamp Dim - Dip, Bright Illumination, Brightness Control System of A Vehicle**
- **Intelligent Car Antitheft System**

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

RAILWAYS

- Rail Track Inspector
- Coach Location Monitoring and Identification
- Design and Implementation of Railway Automation System with Sensors Network
- Wireless Sensor Network based Model for Secure Railway Operations – Performance, Computing & Communication Conference
- Advanced Train Compartment Information Display System for Modern Railways
- Automatic Railway Gate Signaling Simulator & Controller
- Automated & Unmanned Control System of Railway crossing using Wireless IR Sensor
- Model Railroad Automated Track Inspection Car

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

AIRWAYS

- Cockpit White Box
- Parameters Checking Before Take Off
- Testing of Aircraft Box and Accessories before Take off
- Bidirectional Communication Aircraft Landing System – ALS
- Data Acquiring System for Airports
- Radio-Controlled Surveillance System for Borders and Restricted Areas – Flying Helicopter Ariel View System
- Real Time Mid-Air Fight Collision Avoidance System with Auto Warning and Flight Id, Position, Monitoring through Radio Frequency Link and PC
- Auto Flight Pilot Simulation Applied in Real Time & Remote Monitoring using High Speed RF Data Link for UAV / Flight

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

COMMUNICATION

- **A Vehicle-to-Vehicle communication Protocol for Cooperative Collision Warning**
- **Dish Position Controlling and Monitoring System Used for Radar & Other Telecommunication Applications**
- **RF based Code Modulation – Decryption & Encryption for Secured Wireless Communication with OFDM**
- **Development of Smart Notice Board – Active Information Display Systems**
- **A Miniaturized Mote for Wireless Sensor Network**
- **Development of pedestrian-to-vehicle communication system prototype for pedestrian safety using both wide-area and direct communication**
- **Car-to-Car Communication**
- **A Computerized Travel Aid for the Active Guidance of Blind Pedestrians**
- **A Design of A Prototypic Hand-Talk, Assistive Technology for the Deaf**
- **A Distributed, Adaptive Protocol for Handling Interference in Wireless Communications**
- **Code Blue Wireless Network using Mobile Phones**
- **Enabling / Disabling & Wireless Control of Appliances & Devices using RF Technology**

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- Fully Automatic Intelligent Wireless Remote Railway Gate Controller & Monitoring System with Remote Train Stopper for Railway using Active RF Id System
- Machine-to-Machine Communication in Cellular Networks
- Reduction of Disturbance Effects and Sustained Oscillation using Multi-Sensor Implementing Wireless Communication
- Remote Communication Devices for Electric Utility Applications, Electric Power Conference
- Remote Mobile Phone Motor Starter for Irrigation Purpose
- Wireless Automatic Traffic Signaling System
- Wireless Intrusion Detection, Electronic Security & Control System using Central Monitoring System
- Wireless Telemetry for Line Data Transmission on A Mobile Unit

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

MEMS

- **Motion Operated Scrolling Display using Mems Accelerometer and I2c Protocol**
- **Miniature Wireless Sensor, MEMS based, Application in Cold Chain (Food/Medicine Process) Logistics with Real Time Temperature**
- **Advanced Parachute Deployment System using Mems Free Fall Detector and I2c Protocol**
- **Automotive Crash Detection and Airbag Deployment using Mems Accelerometer**
- **Electronic Speedometer using Inertial Mems Sensor and I2c Protocol**
- **Measuring and Transmitting Vital Body Signs using Mems Sensor**
- **Motion ACtivated Power Saving System using Mems Accelerometer and I2c Protocol**
- **Motion Controlled Password System for Compact Embedded Systems using Mems Sensor**

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

SECURITY SYSTEM

- Integrate Intelligent Security System for Industrial Surveillance with WAP & Auto Dialer
- Intelli Home Security System with Auto Dialer, Peace Keeper – The Home of Tomorrow
- Smart Room Controller using Human Presence Detector
- Wireless Voting System
- A Low-Cost Solution for an Integrated Multisensor Lane Departure Warning System
- Intelligent Briefcase with Digital Code Lock and Shock Generator during Unauthorized Access
- Secret Codes & Secured Messages Transmission System through Telephone Line
- Smart Card based Human Identification and Personal Management System
- Spy Camera Detector for Safety Application
- Modern Wireless Entry / Exit Register & Alarm Display System for Advanced Amusement Park
- Implementation of Wireless Surveillance / Emergency Rescue Monitoring Vehicle with Wireless Camera using Microwave Frequency with Microwave Audio / Video Transmission
- Advanced Digital Wireless Multi Point Security System for Fire Safety with Alarm
- Advanced Tsunami Warning System using Satellite for Early

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- **Advanced Wireless Bank Security System with Remote Alarm and Sensor for Modern Security Application**
- **AIDC Attendance Monitoring System in Industry**
- **Aircraft Airbox Ground Tester with Aircraft Accessories**
- **Autonomous Helicopter System with Security System**
- **Combination Lock for Security Applications**
- **Design and Implementation of Mobile based Electrical Appliances Control for Industrial Automation with High Security**
- **Embedded System based Inter Locking System of Electromagnetic Doors**
- **Finger Print / Bio Metrics based Industrial Authentication & Access Control System**
- **Hardware / Software Co-Design for Hyper Elliptic Curve Cryptography (HECC) on the 8051 for Industrial Security**
- **High Bandwidth Tilt Measurement using Low Cost Sensors**
- **Industrial Security Robot with Multi Specialty Features**
- **Intelligent Car Security System using Dynamic Generation of Random Security Codes**
- **Intelligent Information System for Police**
- **Interactive Earthquake Monitoring & Low Frequency Vibrations & Noise Sensing System**
- **Mobile Device Security using Transient Authentication**
- **Multi - Zone Fire Alarming Control Panel with Zone Location, Auto Dialer to Fire Station**

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- PC based Home Appliance Control System
- Safe – Secure Anti Frequency Eliminator
- Safe Street Crossing System for Vision Impaired People
- Secure Transmission of Sensitive Data using Multiple Channels
- Voice Control / Speech Recognition Car Security System
- Wireless Access Monitoring and Control System based on Digital Door Lock
- Wireless Aircraft Automatic Landing System
- Wireless Lan with Mono Alphabetic Substitution

NCCT
Promise for the Best Projects

www.ncct.in
ncctchennai@gmail.com
28235816, 9841193224

SMS BASED

- SMS based Universal Motor Speed Controller
- SMS based Remote Motor Starter for Irrigation in Agricultural Application
- SMS Controlled Home Automation System
- Development of Smart Notice Board – Active Information Display Systems using SMS based on Microcontroller
- SMS based Appliance Control System
- SMS Controlled Intelli Robot Materials Handling
- SMS Controlled Load Monitoring System
- Design and Implementation of Real Time Security Guard Robo using GSM/CDMA Networking
- Ferreting Out Peripatetic Device using GSM Technology
- SMS based Alive Human Detector in Affected Areas / War Fields
- SMS Controlled Intelli Robot Materials Handling
- SMS enabled towards Command & Control Networking of Cooperative Autonomous Robotics for Military Applications

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

SOLAR

- **Effective Solar Tracking System for Optimal Power Generation and Lift Operating Through Solar Power**
- **Wireless Remote Motor Starter with Acknowledgement using Solar Energy Power for Agricultural Application Smart Solar Powered Car**
- **Smart Solar Tracking System for Optimal Power Generation**
- **Solar based Computerized Irrigation System**
- **Solar based Energy Saver Controllers**
- **Solar Cell Voltage Generation with Auto Tracking System**
- **Solar Powered Bike, Solar Power based Two Wheeler Systems**
- **Solar Powered Car, Solar Power based Car Navigation System**
- **Solar Powered Fence - Electrified Perimeter Fencing Systems**
- **Solar Powered Traffic Signals**
- **Solar Water Heater Controller with Temperature Display**
- **A Novel Optimum Operating Point Tracker of the Solar Cell Power Supply System**
- **Solar Energized Artificial Intelligent Embedded Line Tracking Follower Robot**
- **Solar Power for Automatic Water Heating / Solar Energy for Electrical Applications**
- **Solar Powered Wireless Weather Station**

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

POWER ELECTRONICS

- Energy Consumption, Meter Reading and Extra Power Requisition System
- Alternative Energy Sources - Foot Power Generation
- Soil Moisture Content based Automatic Motor Starter for Irrigation Purpose
- Trivector Meter – Design & Implementation
- Power Failure Auto Detection at Customer Place and Wireless Power Line Communication – Auto Announcement System to E.B Station
- Portable Power Analyzer for Energy Audit
- Design & Implementation of 3Phase Power Changer
- Distance Protection – Power Theft Identification & Location Detection
- RF based Intelligent Handheld Multi-Parameter Monitoring System with LCD Display and DAS

For more Projects Titles in Power Electronics

Pl go thro' the following Word Files

- Power Electronics Project Titles, 2009 - 2010
NCCT Final Year Projects
- IEEE Power Electronics IEEE Project Titles, 2009
- 2010 NCCT Final Year Projects

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- Multiple Starters with Over Load and Low High Voltage Protection with Multi Parameter Monitoring
- Smart Wind Mill based Power Generation System for Mobile Charging
- Energy Saving System using Thyristor Controllers
- Multiplexing Control of EMU
- SCR DCR Circuit Breaker
- Energy Saving Systems for Railway Platforms
- Intelligent Power Sharing of Transformers with Auto Protection
- RF enabled Energy Meter Digitization & Automation and Automatic Utility Transfer with Two Way Communication
- Inverter based Low - High Input Voltage Buck Booster Converter System Design & Implementation
- Multi Power Utilizer - Maximum Demand Indicator and Power Factor Indicator
- Natural Failure Protector
- Distributed Control System for Industrial Transducers Failure Location & Annunciation
- Protective Relay V, I, V/F Protection & Impedance Relay
- Soft Switching PWM Three Level Converters
- Soft Switching PWM Three Level Inverters
- Development of Energy Management and Warning System for Resident: An Energy Saving
- Energy Efficient Target Coverage in Wireless Sensor Networks

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- Design and Digital Monitoring of Uninterrupted Power Supply
- Life Cycle Testing of Electrical Components
- Multi Channel Temperature Indicator
- Battery Voltage and Current Monitoring for 8 Batteries
- Wireless Transformer Failure Analysis
- 3 Phase Prepaid Electricity Billing Automation
- Advanced Wireless Electrical Appliance Control System using PC and Coded RF Protocol for industrial Application
- Advanced Wireless Electrical Meter Reading System
- Detection and Security System of Illegal Wireless Transmission
- Diagnosis of Fault Distribution Transformer
- Intelligent & Dynamic Power Saver & Control System for Industrial Electrical Equipments
- Design and Practical Implementation of Internet based Predictive Control of A Servo System
- Digital Tachometer using IR Optical Encoder Sensor
- Electronic Switching System Tackling Power Cut using PIC and I2c EEPROM
- Fault Location using Remote Connection, with Immediate Voice Feedback
- Industrial Power Management System
- Multi Channel Temperature Measurement and Controller
- Multichannel Voltage Scanner and Control using SCADA
- PID based Temperature Controller

NCCT, 109, 2nd Floor, Bombay Flats, Nungambakkam High Road, Nungambakkam, Chennai – 34. <http://www.ncct.in/>

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- Intelligent Power Factor Indicator & Correction with Multiple Capacitor Banks
- Power Generation through Solar Photovoltaic with Light Level Indication
- Power Line Monitoring with Seven Segment Display
- Protection of Turbo Alternators - Generator Protection
- Quasi Resonant Converter Fed DC Drive
- Remote Mobile Phone based Motor Starter for Irrigation Purpose
- SCR based Equipment Protection for Power Monitoring

**We develop Projects as per
your requirements;**

**We do implement IEEE paper
of your choice.**

**Any Project Customization
will also be done @ NCCT**

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

ELECTRICAL

- **A New Simplified Multilevel Inverter topology for DC-AC Conversion**
- **Boost DC-AC Inverter: A New Control Strategy**
- **Data Acquisition System for Large Electrical Drive**
- **Electrical Network Automation & Communication Systems**
- **Electronic Numeric Key Board Cum Motorized (Mechanism) Safety Locker System with Electronic Security System**
- **Energy Saver for Auditoriums**
- **Fault tolerant Neuro Controlled Level Processing Panel**
- **IGBT based PWM Inverter using Microcontroller**
- **Measurement of the Radio Frequency Signal of A Circuit-Breaker**
- **Microcontroller based Measurement of Current, Voltage, Power Factor and Temperature**
- **Programmable Temperature Control System**
- **Multichannel Petrochemical Fire Sensor, Monitoring and Control System with Automatic Telephone Dialing**
- **Power Line Fault Analysis, Monitoring and Load Sharing System**
- **Remote Access Control and Automation System for Electrical Appliances using Telephone Line**
- **Centralized Electricity Billing Through Telephone Line**

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- Electricity Billing System Automation with IRC Reader
- Soft Starter and Energy Saver for 1-Phase Induction Motor using Bidirectional Voltage Regulator
- Fault Location using Remote Connection, with Immediate Voice Feedback
- Energy Management System for Pulse Output Meters

FOR MORE PROJECTS TITLES IN ELECTRICALS

**Pl go thro' the following Word
Files**

- Electrical Project Titles, 2009 - 2010 NCCT Final Year Projects
- IEEE Electrical IEEE Project Titles, 2009 - 2010 NCCT Final Year Projects

**Pl visit – www.ncct.in, to
download Titles / Abstracts**

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

FUZZY LOGIC

- Fuzzy Elevators - Group Elevator Scheduling With Advance Information for Normal and Emergency Modes in Building Management Systems
- Intelligent Fuzzy Control Guided Vehicle with Collision Prevention – Ultrasonic based Distance Monitoring and Fuzzy based Collision Avoidance
- Fuzzy Logic based Automated Train
- Fuzzy Logic based Speed Control of AC Motor using Microcontroller with Line Fault Identification
- Fuzzy based Speed Control of Induction Motor using Microcontroller
- Fuzzy Logic based Lift Control & Management System
- Fuzzy Logic based Speed Control of DC Motor
- Application of Fuzzy Logic in Intelligent Traffic Control Systems
- Control of Boiler Turbine Unit based on Fuzzy Logic System
- Fuzzified Computer Automated Crane Control System
- Fuzzy Logic based Control of Level in A Non-Linear Tank
- Fuzzy Rule based Object Identification Methodology for Navy System
- Fuzzy Speed Control of AC Motor using Microcontroller
- Intelligent Application of Fuzzy Logic in Automated Train Speed Control System

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

SCADA

- **Wireless Hybrid SCADA for Power Station Substation Monitoring & Automation**
- **SCADA for Instrumentation**
- **Artificial Intelligence based Security for Telephone Exchange with SCADA**
- **SCADA based Waste Water Treatment**
- **Optical Isolated Transparency SCADA - for Telephone Exchange**
- **Scada for Local Distribution Network**
- **Development of Human Machine Interface using any SCADA Package**
- **Fault Prediction in Quasi-Steady System with SCADA for Pressure & Flow**
- **Multichannel Voltage Scanner and Control using SCADA**
- **Remote Digital Rpm Indicator using Proximity Or Magnetic Pick Up - SCADA**
- **Remote Frequency Indicator with SCADA**
- **Remote Terminal Unit (RTU) & PLC System**
- **SCADA based Temperature Measurement & Control System**

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

MOTORS AND DRIVES

- Speed Control of AC Motor with Multi Parameter Monitoring
- Speed Control of DC Motor with Field & Armature Control
- Cycloconverter Drive for AC Motors
- Digital PID Controller based Speed Control of DC Motor
- Speed Control of a Linear Induction Motor V/F Technique
- Noise Less Speed Control of DC Motor using PWM Converter
- Brushless Speed Control of DC Motor
- PWM based Bidirectional Speed Control of DC Motor
- Voltage Stresses On Stator Windings of Induction Motors Driven By IGBT PWM Inverters
- Sensor less Speed Control of AC Induction Motor using Microcontroller
- Speed Control of DC Motor using FQ / TQ Chopper Drive
- Cell Phone based Motor Speed Control
- Closed Loop Dc Motor Speed Controller
- Frequency Locked Loop Dc Motor Speed Control
- IGBT based Dc Motor Drive Control System
- Slip Ring induction Motor Drive with Slip Recovery using IGBT
- Efficiency Detector for Relay & Circuit Breaker
- Single Phase Multilevel Inverter SPWM with PC Interface and OLM

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- Wireless DC Motor Speed Control using Triac
- Single Phase Input to DC Output – DC Motor Drive-Armature Voltage Control
- Single Phase Thyristorized Power Controller for Industrial Applications
- Microcontroller based Firing Circuit for Thyristor Converters

**FOR MORE PROJECTS
TITLES IN MOTORS,
DRIVES & CONTROLS**

Pl visit -

www.ncct.in

**to download Titles /
Abstracts**

NCCT
Promise for the Best Projects

www.ncct.in
ncctchennai@gmail.com
28235816, 9841193224

MODEL

- Conveyor Belt Sequential Timer Controller with Model for Bottling Plant
- Automatic Vehicle Speed Management System
- Design of Induction Furnace Control System
- Boiler and Burner Management & Controller System
- Computer Controlled Drilling Machine
- Crane & Lift Operation Controlling and information System
- Computerised Thread Mill Implementation
- Conveyer Belt Monitoring & Control System
- Flow Totalizer - Computerized Flow Totalizer for Juice Industries
- Textile Industries based Programmable Label Cutting Machine
- Wireless Crane Control System using PC

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

CAN

- **CAN based Smart Car Security System**
- **CAN based Exteriors – Design & Implementation**
- **Complete Automation of Automobile Control System using CAN**
- **CAN based Collision Avoidance System for Automobiles**
- **Control of Process Parameters in Industries using CAN**
- **Speedometer Implementation using CAN**

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

PLC / THERMAL

- PLC based Bottle Filling Station with Conveyor Model
- PLC based Traffic Controller
- PLC based Automatic Boiler Management
- PLC based Control of Advertisement Display
- PLC with Internal Locking System and Control
- Multi Channel Temperature Measurement and Controller
- PID based Temperature Controller
- Temperature Monitoring and Control System with Automatic Equipment Control using Computers
- Thermal Overload Protection for Transformer

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

SENSOR BASED

- **Advanced Wireless Automatic Digital Pumping System for Agriculture using Soil Sensor**
- **Advanced Wireless Earth Quake Alarm System for Early Warning**
- **Advanced Wireless Bank Security System with Remote Alarm and Sensor for Modern Security Application**
- **Design and Implementation of Railway Automation System with Sensors Network**
- **Motion Detection, Robotics Guidance & Proximity Sensing using Ultrasonic Technology**
- **Real Time Lane Detection for Autonomous Vehicles – Ultrasonic Sensor**

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

AUTOMATION

- Automatic Vehicle Speed Management System
- CAN based Collision Avoidance System for Automobiles
- Control of Process Parameters in Industries using CAN
- Implementation of Air Bag System in a Vehicle
- Monitoring of Engine Parameters
- Speedometer Implementation using CAN
- Train Engine Automation System
- Wireless Crane Control System using PC

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

INDUSTRIAL APPLICATIONS

- High Speed Object Counter
- Maximum Demand Indicator & Controller
- Multi Channel Temperature Measurement & Controller
- Multiple Industrial Timer
- PC based Multi Channel Temperature Controller & Logger and Data Analyzer
- Single Channel Temperature Measurement & Controller
- Ultrasonic Distance Monitor & Range Finder
- Water Control System for Rolling Mill

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

LEVEL MEASUREMENT

- Liquid Level Remote Transmitter
- Digital Temperature Indicator & Controller with DAS & Analyzer
- Multi Channel Temperature Scanner using Current Loop Transmission
- De-Icing Temperature Controller System PC based Multi Channel Temperature Controller & Logger and DAS Analyzer
- Temperature Measurement & Controller for Furnaces with Different Time Period & Set Points
- PC based Programmable Temperature Controller for Furnaces
- Digital Ph Measurement & Controller Meter
- PC based Programmable Temperature Controller for Cement Plant
- Fluid Level Monitoring System

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

PROCESS CONTROL

- **An on-Line Distributed System for Improved Real-Time Process Performance**
- **Design Criteria for Obstacle Avoidance in A Shared Control System**
- **Design Methodology for Modeling A Microcontroller – Teleload Switch**
- **Digital PID Controller for Multi Channel Temperature using Frequency Response / Root Locus Technique**
- **Digital Temperature Indicator & Controller with DAS & Analyzer**
- **Fuzzy Logic based Traffic Light Controller**
- **Industrial Annunciator with Voice, Alarm**
- **Multi Burner Management & Controller with Auto Flame Detection & Failure Indicator**

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

MECHANICAL

- Automated Weigh Load Cell
- Automatic Motorized Electromagnetic Glass Door Open / Close Mechanism
- Batch Weighing & Automation System
- Commercial Weighing System
- Multi Axis Stepper Controller / Driver with Opto Isolation
- Multi Axis Stepper Robotics with Artificial Intelligence
- Stain Gauge Weighing System
- Tank – Hopper Weighing System
- Textile Industries based Programmable Label Cutting Machine
- Two Axis Stepper Controller / Driver with Opto Isolation
- Wireless Crane Control System using PC

PI visit
www.ncct.in
You can download
more titles

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

ELECTRO MECHANICAL / MECHATRONICS

- **Advanced Collision Avoidance Solar Powered Robo Car with Automatic Charger**
- **Automatic Plant Irrigation Robot with Self-Guided Action for Agricultural Application**
- **Automatic, Advanced Robotic Arm for Welding in Automated Assembly Line**
- **Hyper Line Tracking Control of Robotic Car using Track Sensors for Industrial Application**
- **Non GPS Navigation with the Personal Dead Reckoning- Pdr System**
- **Self Direction Detected and Guided Robotic Vehicle with Magnetic Compass Navigation**
- **Visual Servoing and Multi Directional Light Signature Sensing and Approaching Robot with Edge Detector for Tunnel Application**

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

GENERAL

- Digital Counter using CMOS Technology
- Need of Ad Hoc type Networking for Modern Airports for Aircraft Landing
- A Proposal for Design of Hybrid Multi Functional Implantable Biochip using Bio-intelligent Expert System
- A Survey of Communication Network Paradigms for Substation Automation
- A Wireless Escape System for Industrial Accidents using Adhoc Positioning
- Ac Generator Monitoring – Generating Voltage, Oil Level, Fuel Level, Etc Through Wireless
- Adhoc – Advanced Home Care System for Elderly Patients
- Advanced Digital Remote Panic Alarm Button for Bank / industrial Application
- Advanced Full Function Remote Home Automation System using Encrypted RF Technology
- Artificial intelligent based Equipments Failure Detecting & Automatic Dialing to the Concern Service Engineer Cell-Phone / Telephone
- Attendance Marker System with IRC Reader and Face Indicator
- Automatic Cell Phone Detector and Mute Switch for TV / DVD
- Automatic Controller for Elevator and Escalator with Sensor Network & AI

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- Automatic Intelligent Plant Watering System
- Automatic Load Sharing of Transformers with Protective Analysis
- Automatic Repeat Protocol for Distribution Automation System through Power line Communication
- Automatic Rolling Shutter Opener with RF Remote Control
- Automatic Room Light / Cooling System Controller with Visitor Counter
- Automatic System for Measuring & Controlling the Length of a Moving Product in Industries
- Automatic Vehicle Location Tracking, Collision Avoidance with Dual Communication using RF
- Automobile Exterior Safety System
- Autonomous Stabilization System for a Coaxial Helicopter
- Biometric Bank Locker System for Manager and Customer
- Bio-On Chip (B-Chip) Micro Miniaturized Wearable / Body Area Network for Wireless Patient Monitoring
- Cable Fault Finder for Electrical Transmission Lines
- Cell Phone based Remote Car Starter
- Cell Phone based Total Car Controlling System – Car Moving, Forward, Reverse, Etc.,
- Cell Phone Detector for Security Application
- Cell Phone to Cell Phone Appliance Control System
- Computer based Wireless Control System of Devices

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- Computer Keyboard Dual Controller for Switching Electrical Devices
- Computerized Train Control System
- Control of Pc DTMF Technology via Mobile Phone
- Customers First- EVI Improving Driver information
- Design a Wireless Sensor Network for Methane Monitoring System
- Design and Implementation of Home Automation using CAN
- Digital Combination Lock for Security Applications
- Digital Steam, Pressure and Liquid Level Monitor
- Digital Surface Distance / Length Measurement using Microcontroller
- Distributed Multi Area Power System Load Flow Monitoring
- Dynamic & Automatic Programmable Temperature Control System for industrial Machineries Safety Control System
- Dynamic Security and Access Control System for 5 independent Zones
- E- Seal Applied in Fragile Safety in Transport, Real Time
- E-Driving License and intelligent E-Police Applied in Modern Electronic Travel Aids – ETA
- Embedded based Level Controller with Two Tanks with Transparent Level Display
- Embedded Controller for Non Linear Partially Interacting Process (NIPIP)
- E-Ticket Applied in Monitoring and Management Evaluation

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- Embedded Microcontroller based Transformer Oil Testing Machine
- Embedded Microcontroller based Weighing Analyzer using Load Cell
- Embedded PIC Microcontroller based PH Controller for Sugar Industries
- Embedded System based Inter Locking System of Electromagnetic Doors Chemical, Cement & Pharmaceutical Industries
- Feeder Protective Relay Monitoring and Data Logger
- Frequency Division Multiplexing for a Multi-Sensor Wireless Telemetry System
- Fully Automatic E-Filing System with Location, Tracking Applied in Real Time Single Window System for Modern Govt. / Document / File Management
- Garment Conveyor Remote Controller
- Guardhouse Visitor Screening Security System
- Handheld Electronic Voting Machine & Data Retrieval System
- Highway Car Accident Identification and Auto Communication to Patrol or Hospital
- Hi-Tech Car with Remote Camera for the Police
- Humidity Monitoring and Pump Controlling System
- Implementation of Device Status Monitoring and Controlling using Telephone Lines
- Implementation of Global and Remote Positioning System for Defense and other Purposes using Mobile Networks

NCCT, 109, 2nd Floor, Bombay Flats, Nungambakkam High Road, Nungambakkam, Chennai – 34. <http://www.ncct.in/>

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- Implementing Process Control & Monitoring System using Can
- Intelligent & Advanced Digital Wireless Audience Polling System for Quiz Program
- Internet-Enabled Calibration Services: Design of a Secure Calibration System
- Microcontroller based intelligent Multi-Timer System for industrial Automation
- Microcontroller based Moving Person Place Detecting System (MPP)
- Monitoring of Emission Measurements using Wireless Technology
- Mosfet based Current Mode Control Buck / Boost Converter
- Most Advanced Digital Wireless Two Wheeler Security System with Remote Starter
- Multi Boiler Management & Controller with Auto Failure Indicator – Pcs
- Multi Zone Fire Alarming Control Panel with Zone Location, Auto Dialer to Fire Station
- Multiple Programmable Batch Event Counter with Conveyor Belt Arrangement
- Neural Implementation of Energy Consumption in Power Distribution
- Non intrusive Load Monitoring and Diagnostics in Power Systems
- People / Patient Tracking and Management System for Hospital /Factory using Wireless Network System

NCCT

Promise for the Best Projects

www.ncct.in

ncctchennai@gmail.com

28235816, 9841193224

- **Pressure Sensor and Trigger System for industrial Application**
- **Production Automation and Control, Innovative Future Manufacturing**
- **Public Address System Controller - Automated Timing & Music System**
- **Microcontroller to Microcontroller Communication with LCD**
- **Radio Frequency Foot Pressure Measuring System**
- **Remote Camera Controller for Security Application using Servo Motor**
- **Remote Shutter Opener with Code Lock**
- **Remote Wireless Wind Speed Meter for Modern Remote Weather Monitoring Station with Digital Read Out**
- **Research of Remote Real Time Monitor System for Electromechanical Equipments based on Internet**
- **Robust Environmental Sound Recognition for Home Automation**
- **Room Humidity Checking with Air Conditioner Cooling Effect Controlling System**
- **Route Selection for Vehicle Navigation and Control**
- **Sea Navigation for Rescue Operations using Microcontroller**
- **Simultaneous Localization, Mapping and Moving Object Tracking**
- **Single Phase integral Cycle Inverter using Mosfet**
- **Solid State Switching to Replace DOL Starters**
- **Thyristor Controlled Heating System with Model**
- **Towards a Unified Location Tracking System for Heterogeneous Industrial Environments**