



# IGEEKS Technologies

Bridging Technology.

## **IGEEKS TECHNOLOGIES**

### **Software Training Division**

**Academic Projects for BE, ME, MCA, BCA and PHD Students**

### **IGEEKS Technologies (Make Final Year Project)**

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**Sampige Main Road, Malleswaram, Bangalore- 560003.**

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**Website: [www.igeekstechnologies.com](http://www.igeekstechnologies.com), [www.makefinalyearproject.com](http://www.makefinalyearproject.com)**

**Land mark: Near to Mantri Mall, Malleswaram Bangalore**

## **IEEE 2015**

15\_1\_287\_Hand Gesture Recognition Based Robot Using Accelerometer Sensor

15\_2\_343\_A Review on Design of Automated Floor Cleaning System

15\_3\_446\_The Elderly Independent Living in Smart Homes: A Characterization of Activities and Sensing Infrastructure Survey to Facilitate Services Development

15\_4\_A Zigbee-Based Animal Health Monitoring System

14\_8\_411\_Design and Implementation of Client-Server based Remote Machine Control System using Web Services for Industrial Applications

14\_22\_369\_SECURE MEDICAL TAGS FOR REDUCING MEDICAL ERRORS & DRUG INTERACTION WITH EHR SYSTEM

15\_5\_WSN AND IOT-BASED SMART HOMES AND THEIR EXTENSION TO SMART BUILDINGS

15\_6\_DESIGN & IMPLEMENTATION OF SMART CITY USING CONTROLLED AREA NETWORK PROTOCOL FOR CONTROLLING PURPOSE

15\_7\_CONTROLLER AREA NETWORK BASED CRUISE CONTROL IN TRAFFIC SITUATIONS

15\_8\_CONTROL AREA NETWORK LIMITATIONS IN ECOCAR

15\_9\_DUAL MODE WIRELESS SENSOR NETWORK FOR REAL-TIME CONTACTLESS IN-DOOR HEALTH MONITORING

15\_10\_378\_Hardware Demonstration of a Home Energy Management System for Demand Response Appl

15\_11\_GREENCHARGE: MANAGING RENEWABLE ENERGY IN SMART BUILDINGS

15\_12\_AN ENHANCED CRACK DETECTION SYSTEM FOR RAILWAY TRACK

15\_12\_RAILWAY TRACK CRACK DETECTION AUTONOMOUS VEHICLE

15\_13\_87\_SEED SOWING USING ROBOTICS TECHNOLOGY

15\_14\_AN AUTOMATED SYSTEM FOR ACCIDENT DETECTION

14\_21\_A Reconfigurable Smart Sensor Interface for Industrial WSN in IoT Environment using web server

15\_15\_An Effective Wireless Solution for Industrial Automation

15\_16\_MICROCONTROLLER BASED THREE PHASE FAULT ANALYSIS FOR

## TEMPORARY AND PERMANENT FAULT

15\_17\_A NOVEL RECONFIGURABLE MICROGRID ARCHITECTURE WITH RENEWABLE ENERGY SOURCES AND STORAGE

15\_18\_Women Anti-Rape Belt

15\_19\_ER-LOCK: NEXT GENERATION AUTO THEFT PREVENTION SYSTEM USING SMART GRAVITATIONAL LOCK VEHICLE TRACKING WITH GPS FENCING AND REMOTE FUEL CUT-OFF

15\_20\_Flood Prediction and Prevention through Wireless Sensor Networking (WSN): A Survey

15\_21\_IEEE\_Matlab\_Efficient Road Detection and Tracking for Unmanned Aerial Vehicle

15\_22\_RFID Based Vehicle Emissions in Cities on Internet

15\_23\_Automated Health Alerts Using In-Home Sensor Data for Embedded Assessment

15\_24\_IEEE\_IOT based Solution for Home Power Energy Monitoring and Actuating

15\_25\_IEEE\_A Wireless Sensor Network Monitoring System for Highway Bridges

14\_Application of RFID Technology and the Maximum Spanning Tree Algorithm for Solving Vehicle Emissions in Cities on Internet of Things

15\_26\_IEEE\_Prototype Development of Monitoring System in Patient Infusion with Wireless Sensor Network

15\_28\_Multiple Appliances Controlling and Monitoring System based on Wireless Embedded Home Gateway

15\_29\_IEEE\_An Approach for Monitoring and Smart Planning of Urban Solid Waste Management

15\_30\_Embedded\_Fuzzy\_ZigBee-Based Irrigation System for Home Gardens

## **IoT - Wireless Sensor Network (Networking) (Web Services)**

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## **Real Time Application**

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14\_38\_46\_Designing and Modeling of Voice Controlled Wheel Chair Incorporated with Home Automation

14\_189\_Robotic automated food service provider is hotel with android based individual menu

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15\_22\_ RFID Based Vehicle Emissions in Cities on Internet

39\_FIRE SENSING ROBOT

43\_REMOTE FIRING ROBOT

46\_Speech based wheel chair control for physically challenged person using Android Bluetooth technology

62\_FIRE SENSING ROBOT WITH RF AND ALARM

81\_EARTHQUAKE DISASTER RESCUE ROBOT

106\_PLANET ROVER

110\_ Embedded LAND ROVER with Sensor Interface with ZigBee Technology

114\_FLEX SENSOR USING ROBOT CONTROL

115\_TOUCH SCREEN BASED ROBOT USING SPEECH

105\_TOUCH SCREEN AND ARM BASED ROBOT MOTION CONTROL

159\_FREE MOVING ROBOT WITH FRONT & BACK IR OBSTACLE DETECTOR

164\_RADIO CONTROLLED COMBAT ROBOT

249\_Automatic and intelligent car motion

313\_Pam based robot motion & speed control with pick & place operation

287\_Accelerometer & ARM based Robot motion & speed control with obstacle detection

291\_Bomb detection robot

52\_A\_RF BASED PICK AND PLACE ROBOT

51\_Metal Detecting Robot

52\_PICK AND PLACE ROBOT

## **Biomedical**

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326\_Speech based control & alert system for senior citizens using android mobile

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266\_Operation Theatre Automation & Control (OTAC)

270\_NICU Monitoring With PC

14\_22\_369\_SECURE MEDICAL TAGS FOR REDUCING MEDICAL ERRORS & DRUG INTERACTION WITH EHR SYSTEM

14\_26\_Microcontroller Based Heart Beat Monitoring and Alerting System

14\_35\_Monitoring Human Knee Joint Movement using Wearable Computing

14\_34\_Any Time Medicine

14\_A LOW-COST WIRELESS HEALTHCARE MONITORING SYSTEM

14\_An Adaptable and Extensible Mobile Sensing Framework for Patient Monitoring

14\_IEEE\_Design and Implementation of Heart Rate Measurement Device Using Wireless System

14\_GSM BASED HEALTH MONITORING SYSTEM

352\_Speech Recognition Based Wireless Automation of Home Loads with Fault Identification for Physically Challenged

## **Agriculture**

14\_405\_Intelligent Food Management System-Maintenance of Agro and Non-Agro Foods in Cold Storage Warehouse

14\_IEEE\_Crop Leaf Area Index Observations with a Wireless Sensor Network and Its Potential for Validating Remote Sensing Products

15\_11\_GREENCHARGE: MANAGING RENEWABLE ENERGY IN SMART BUILDINGS

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15\_30\_Embedded\_Fuzzy\_ZigBee-Based Irrigation System for Home Gardens

14\_Automatic Corporate Farming Control Mechanism

14\_GSM based Automated Irrigation Control using Raingun Irrigation System

14\_Performance Optimization Of Poultry Farm By Using Instrumentation with help of Embedded Automation

54\_SMS BASED IRRIGATION SYSTEM

54\_A\_ SOLAR POWERED WATER PUMP WITH SMS ALERT FOR IRRIGATION SYSTEM

87\_SEEDING AGRICULTURE ROBOT

321\_Solar powered Irrigation with auto control of pump & SMS alert

## **Automobiles**

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21\_Android based Sign Board Detection with Image & Voice Alert System

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15\_22\_ RFID Based Vehicle Emissions in Cities on Internet



14\_20\_201\_Integrated and Automated Vehicle Bay Arrangement System to Avoid Congestion in a Public Parking Area

14\_An Approach towards Traffic Management System using Density Calculation and Emergency Vehicle Alert

14\_Automatic Traffic Congestion Detection and Alert System

14\_BUS POSITION MONITORING SYSTEM TO FACILITATE the passengers

383\_Embedded Bluetooth Access for cars using the Face recognition, Cell phone and GSM

14\_Design and Implementation of Vehicle Tracking System Using GPSGSMGPRS Technology and Smartphones Application

14\_Embedded Based Vehicle Speed Control System using Wireless Technology

14\_Emergency Traffic Management for Ambulance using Wireless Communication

14\_IEEE\_Design and Implementation of Vehicle Tracking System Using GPS GSM Technology

14\_ROAD ACCIDENT PREVENTION UNIT (R.A.P.U)

14\_RADAR Based Vehicle Collision Avoidance System used in Four Wheeler Automobile Segments

14\_Intelligent Accident Detection And Ambulance Rescue System

14\_Online Monitoring of Shuttle System and Bearing

14\_Super-Lock Next Generation Auto Theft Prevention System using Smart Gravitational Lock

## **Security**

15\_5\_WSN AND IOT-BASED SMART HOMES AND THEIR EXTENSION TO SMART BUILDINGS

15\_9\_DUAL MODE WIRELESS SENSOR NETWORK FOR REAL-TIME CONTACTLESS IN-DOOR HEALTH MONITORING

15\_16\_MICROCONTROLLER BASED THREE PHASE FAULT ANALYSIS FOR TEMPORARY AND PERMANENT FAULT

15\_18\_Women Anti-Rape Belt

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14\_27\_A Novel Security System using near Field Identification (NFID)

14\_28\_407\_Fire Avoidance and Electric Circuit Breaker System in Train along with Alerting Approaching Station

14\_18\_Wirless Communication, Monitoring and Security System Embedded Safety Helmet for Real Time Applications

1\_Invisible Eye – An advanced Security System Using Web Camera

14\_36\_A Very Simple User Access Control Technique through Smart Device Authentication using Bluetooth Communication

14\_398\_Intelligent Radio Frequency Identification Technology in Academic Management System

14\_330\_Innovative Graphical Passwords using Sequencing for industrial security system

14\_ATM Transaction Security System Using Biometric Palm Print Recognition

14\_Automated Air Baggage Security Enhancements with Biometric Recognition using Programmable Logic Controller

65\_Laser based assert monitoring system

66\_OFFLINE MONITORING OF ADVERTISEMENT HOARDINGS USING GSM AND GPS WITH LASER SECURITY SYSTEM

71\_ZIGBEE BASED WIRELESS NETWORK USING ENCRYPTION AND DECRYPTION MESSAGE TRANSFER SYSTEM FOR MILITARY APPLIANCES

71\_RF BASED WIRELESS ENCRYPTION AND DECRYPTION MESSAGE TRANSFER SYSTEM FOR MILITARY APPLIANCES

## **Electrical**

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15\_28\_Multiple Appliances Controlling and Monitoring System based on Wireless Embedded Home Gateway

15\_29\_IEEE\_An Approach for Monitoring and Smart Planning of Urban Solid Waste Management

14\_7\_IEEE\_WSN-Based Smart Sensors and Actuator for Power Management in Intelligent Buildings

14\_16\_IEEE\_Toward a Secure Wireless-Based Home Area Network for Metering in Smart Grids

14\_11\_165\_Design and Construction of Microcontroler Based Wireles Remote Controlled Industrial Electrical Appliances Using Zigbee Technology

14\_15\_Design and Implementation of High Precision Automated Online Monitoring of Distribution Transformer (OMDT) Device

14\_Design of an Efficient Power Control System for Computer Laboratory

14\_Energy Efficient Intelligent Street Lighting System using Zigbee and Sensors

14\_Fault Analysis and Electrical Protection of Distribution Transformers

69\_SOLAR PANEL CONTROLLER AND POWER OPTIMIZATION

64\_C\_DIALY SMS REPORT BASED PREPAID & POSTPAID ENERGY METER

64\_A\_ AN INTELLIGENT SMS BASED REMOTE WATER METERING SYSTEM  
64\_DIALY SMS REPORT BASED PREPAID ENERGY METER  
14\_Substation Phase Controller for automatic load shedding with overload alert  
14\_Substation Phase Controller  
14\_Web Based Substation Monitoring Protection & Control  
14\_Wireless Power Transmission for Mobile and Vehicle  
14\_Web-based Electronic Load To Test DC Power Supply  
207\_Demand Side Load Management of Smart Grids Using Intelligent Trading Metering Billing  
85\_INTELLIGENT CONTACTOR FOR HIGH POWER MOTORS  
80\_WIRELESS TRANSFORMER PARAMETER MEASUREMENT AND PROTECTION  
210\_REAL TIME AUTOMATION IN PADDY FIELD WITH SECURITY  
211\_FAULT DETECTION AND CORRECTION IN DC MOTOR  
240\_Power Theft identification using Energy meter  
257\_Design and Implementation of a Power Converter for Electric Bike with Charging Feature  
258\_Substation monitoring with SMS alert  
259\_Implementation of Solar Illumination System with Two-Stage Charging and Dimming  
Control Function  
271\_More Efficient Home Energy Management System using Android Phone  
283\_Smart Billing System using Zigbee

### **CAN Protocol**

15\_6\_DESIGN & IMPLEMENTATION OF SMART CITY USING CONTROLLED AREA  
NETWORK PROTOCOL FOR CONTROLLING PURPOSE  
15\_7\_CONTROLLER AREA NETWORK BASED CRUISE CONTROL IN TRAFFIC  
SITUATIONS  
15\_8\_CONTROL AREA NETWORK LIMITATIONS IN ECOCAR  
14\_9\_Vehicle Control Using CAN Protocol For Implementing the Intelligent Braking System  
14\_31\_IEEE\_Intra-Vehicle Networks A Review  
14\_32\_ARM 7 Based Controller Area Network for Accident Avoidance in Automobiles  
14\_Design and development Of PIC microcontroller based vehicle monitoring system using

Controller Area Network (CAN) protocol

38\_CAR AUTOMATION USING CAN NETWORK

320\_CAN based data acquisition with voice operated bus stop indication using gps with traffic reducing technique

63\_REMOTE MONITORING OF CAR ENGINE USING CAN AND ZIGBEE PROTOCOLS  
AN APPLICATION OF WIRELESS DATA ACQUISITION

93\_CAN BASED REMOTE CAR AUTOMATION

### **ARM Cortex or ARM7**

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15\_29\_ IEEE\_An Approach for Monitoring and Smart Planning of Urban Solid Waste anagement

15\_30\_ Embedded\_Fuzzy\_ZigBee-Based Irrigation System for Home Gardens

14\_24\_ Intelligent accident identification and location display system using ARM

14\_33\_ ARM Cortex Microprocessor based Speech Controlled Wireless Smart Home Management System using Android with Security Alert

14\_Design of ARM based Enhanced Event Data Recorder & Evidence Collecting System

55\_ARM BASED SMART POWER GENERATION AND OPTIMIZATION

185\_Head movement based wireless communication with speech alert for Paralyzed Person

319\_Renewable energy - 12V DC Power generation using Back EMF & Solar for LED load

327\_ARM based wireless meter reading system with overload, power theft detection and server based SMS alert

329\_COIN BASED MOBILE CHARGER, WATER FILLING AND WEIGHT MEASUREMENT SYSTEM

331\_SENSOR NETWORK BASES OILWELL HEALTH MONITORING AND INTELLIGENT CONTROL

337\_Embedded Ethernet monitoring and controlling using web browser

348\_PC Based Multiple Sensor Tester for Industrial Production

403\_Android based Monitoring Human Joint Movement Using Wearable Computing

404\_Central Locking Control using Android Application with Fuel Theft Voice Alert

366\_MEMS Accelerometer sensors based semi-automated rash driving & traffic signal jump detection unit

## **Biometrics**

14\_417\_Fingerprint Based Licensing System for Driving with Face Recognition system

111\_BIOMETRIC SECURE E-VOTING SYSTEM FOR ELECTION PROCESSES (IEEE 2008)

245\_SECURITY USING FINGERPRINT AND GSM AUTHENTICATION

252\_ FINGERPRINT SCANNER BASED GLOBALISED VOTING SYSTEM

251\_FINGER PRINT BASED AUTHENTICATION, ACCESS CONTROL, TIME, ATTENDANCE MANAGEMENT

246\_A\_ FINGER PRINT AUTHENTICATION FOR ONLINE EXAM

## **IEEE 2014**

418\_ (Server) How Long to Wait-Predicting Bus Arrival Time along with Electronic Pass System

421\_Robotic Missile Detection and Automatic Destroy System using Laser Technology with Server based Control Unit

422\_Application of RFID Technology and the Maximum Spanning Tree Algorithm for Solving Vehicle Emissions in Cities on Internet of Things

429\_Substation Phase Controller for automatic load shedding with overload alert

430\_DESIGN OF AN EMBEDDED SENSOR NETWORK FOR APPLICATION IN ENERGY MONITORING OF A SPORTS STADIUM

432\_Web based Electronic Load to Test DC Power Supply to Generate Quality Test Report in Production Department

423\_Airport Baggage Conveyor and Voice notification using Android Technology

424\_Wireless Communication, Monitoring and Security System Embedded Safety Helmet for Real Time Applications

425\_Vehicle Control Using CAN Protocol For Implementing the Intelligent Braking System

426\_RFID based Hostel Security System with Intruder Detection

437\_ AUTOMATIC BABY e-CRADLE FOR INFANT CARE

438\_SMART GIRLS SECURITY SYSTEM

439\_Fault Analysis and Electrical Protection of Distribution Transformers

443\_Robust Railway Crack Detection Scheme (RRCDS) Using LED-LDR Assembly

444\_Any Time Medicine

445\_ GSM Based Power sharing of Transformer with Automatic load shedding system

446\_Daily Life Tracking Application for Smart Homes using Android Smartphone

14\_11\_165\_Intelligent Remotely Device Controlled System for Industrial Electrical Appliances through Zigbee Wireless Networks

14\_12\_Design of Wireless Framework for Energy Efficient Street Light Automation

14\_13\_418\_ IEEE\_How Long to Wait-Predicting Bus Arrival Time With Mobile Phone Based Participatory Sensing

14\_25\_Highly Efficient and Intelligent Indoor and Outdoor Lighting System Using a ZigBee Network of Devices and Sensors

14\_17\_Wireless transmission and analysis of physical variations in the atmosphere using ZIGBEE

14\_23\_Implementation of GSM Based Water Meter A Step towards Automation in Billing System

14\_29\_To analyze hand gesture recognition for wirelessly electronic device control

14\_33\_ANDROID & BLUETOOTH BASED VOICE CONTROLLED WIRELESS SMART HOME SYSTEM

14\_39\_Missile Detection and Automatic Destroy System

14\_A Sensor Based Anti-Poaching System in Tanzania National Parks

14\_ IEEE\_208\_Automatic User State Recognition for Hand Gesture Based Low-Cost Television Control System

14\_Smart Gas Cylinder using Embedded System

14\_SMART GIRLS SECURITY SYSTEM

14\_Smart Sensor System for Agricultural Chronology

14\_To analyze hand gesture recognition for wirelessly electronic device control



## **IEEE 2013**

367\_CHILD ACTIVITY RECOGNIZATION USING ACCELEROMETER AND RFID  
READER

368\_CENTRALIZED LPG CYLINDERS THEFT DETECTION SYSTEM WITH SECURITY  
ALERTS

369\_NFC-Enabled Smartphone Application for Drug Interaction and Drug Allergy Detection

371\_HEALTH @ HOME – Remote monitoring of vital signs

372\_ADVANCED SOFESTICAED TECHINQUES IN VEHICLES FOR PREVENTION OF  
ACCIDENTS

373\_ENERGY EFFICIENT LED LIGHTING SYSTEM FOR COMMERCIAL PURPOSE

375\_Remote-Control System of High Efficiency and Intelligent Street Lighting Using a ZigBee  
Network of Devices and Sensors

378\_Hardware Demonstration of a Home energy management system for demand response  
applications

382\_Online Monitoring of Geological CO2 Storage and leakage based on wireless sensor  
networks

386\_AN OPTIMAL DRIVING SYSTEM BY USING WIRELESS HELMET and ANDROID

387\_Safety helmet for a pilot

389\_Use of Ultrasonic Signal Coding and PIR Sensors to Enhance the Sensing Reliability of an  
Embedded Surveillance System

390\_Embedded System Based Eye Movement Communicating Media for Paralyzed Person

391\_Passenger BUS Alert System for Easy Navigation of Blind

392\_Smart Device for Optimal Use of Stored Renewable power

393\_Smart Host Microcontroller for Optimal Battery Charging in a Solar-Powered Robotic  
Vehicle

396\_Low Power Wireless Sensor Network for Building Monitoring

397\_DESIGN AND DEVELOPMENT OF FALL DETECTOR USING FALL  
ACCELERATION

400\_Environment monitoring and device control using ARM based Embedded Controlled  
Sensor Network

## **POWER MANAGEMENT**

14\_30\_IEEE\_Smart Home Energy Management System Including Renewable Energy Based on ZigBee and Webservices

14\_IEEE\_Implementation of a Web of Things based Smart Grid to remotely monitor and control Renewable Energy Sources

14\_Solar Power Wireless Monitoring Based On Embedded System

## **High Priority Projects**

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270\_NICU Monitoring With PC

352\_Speech Recognition Based Wireless Automation of Home Loads with Fault Identification for Physically Challenged

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