

# JDNET TECHNOLOGIES PROJECTS

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- ❖ TOPIC LIST
- ❖ ABSTRACT
- ❖ CONFIRMATION LETTER
- ❖ ATTENDANCE CERTIFICATE
- ❖ FLOW CHAT
- ❖ LANGUAGE TRAINING
- ❖ SOFTWARE INSTALLATION
- ❖ SOURCE CODE
- ❖ OUTPUT VERIFICATION
- ❖ MODIFICATION (IF REQUIRED)
- ❖ PPT
- ❖ REPORT
- ❖ COMPLETION CERTIFICATE

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# **COMPUTER SCIENCE PROJECTS (2020-21)**

## **JAVA/.NET/PHP**

**CLOUD COMPUTING**

**BIG DATA**

**NETWORK SECURITY**

**SECURE COMPUTING**

**MULTIMEDIA**

**SOFTWARE ENGINEERING**

**INTERNET OF THINGS (IOT)**

**DATA MINING**

**NETWORKING**

**SERVICE COMPUTING**

**IMAGE PROCESSING**

**BLOCKCHAIN&IOT**

## **NS2/NS3**

**COGNITIVE RADIO NETWORK**

**MANET**

**UNDER WATER ACOUSTIC NETWORK**

**HETEROGENEOUS NETWORK**

**NETWORK SECURITY**

**WIRELESS SENSOR NETWORK**

## **OMNET**

## **PYTHON**

## **ANDROID**

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# FINAL YEAR PROJECTS FOR EEE,ECE,MECH,CSE,IT

## CLOUD COMPUTING

1. A Secure Searchable Encryption Framework for Privacy-Critical Cloud Storage Services.
2. Provable Data Possession with Outsourced Data Transfer
3. Scalable Discovery of Hybrid Process Models in a Cloud Computing Environment.
4. A Two-Stage Auction Mechanism for Cloud Resource Allocation
5. Comments on "SEPD: Secure and Efficient Privacy Preserving Provable Data Possession in Cloud Storage".
6. Secure Data Group Sharing and Conditional Dissemination with Multi-Owner in Cloud Computing.
7. CHARON: A Secure Cloud-of-Clouds System for Storing and Sharing Big Data.
8. Cost-Efficient Resource Provisioning for Dynamic Requests in Cloud Assisted Mobile Edge Computing.
9. Key Management Scheme for Secure Channel Establishment in Fog Computing.
10. Privacy Preserving Searchable Encryption with Fine-grained Access Control
11. Enabling Strong Privacy Preservation and Accurate Task Allocation for Mobile Crowd sensing.
12. "Improving Privacy and Security in Decentralizing Multi-Authority Attribute Based Encryption in Cloud Computing".
13. CP-ABSE: A Ciphertext-Policy Attribute-Based Searchable Encryption Scheme.
14. A Lightweight Auditing Service for Shared Data with Secure User Revocation in Cloud Storage.
15. Efficient Attribute-based Access Control with Authorized Search in Cloud Storage.
16. A Trust-Based Agent Learning Model for Service Composition in Mobile Cloud Computing Environments.
17. Improving The Efficiency of E-Healthcare System Based on Cloud.
18. A Cloud-Enabled Small Cell Architecture in 5G Networks for Broadcast/Multicast Services
19. An Edge-to-Cloud Virtualized Multimedia Service Platform for 5G Networks
20. Architecture-based Reliability-sensitive Criticality Measure for Fault-Tolerance Cloud Applications
21. Automatic Generation of Synthetic LiDAR Point Clouds for 3-D Data Analysis
22. Blockchain-assisted Public-key Encryption with Keyword Search against Keyword Guessing Attacks for Cloud Storage

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## FINAL YEAR PROJECTS FOR EEE,ECE,MECH,CSE,IT

23. Cost-effective Sharing of Streaming Dataflows for IoT Applications
24. Delay and Cost Optimization in Computational Offloading Systems with Unknown Task Processing Times
25. Rerouting Strategies for Highly Available Virtual Network Functions
26. U2-Tree: A Universal Two-Layer Distributed Indexing Scheme for Cloud Storage System
27. Reliability Modeling for Sparsely Connected Homogeneous Multistate Consecutive- $k$ -Out-of- $n$ :  $G$  Systems
28. Obfuscating EVES Algorithm and Its Application in Fair Electronic Transactions in Public Clouds
29. Blockchain Privacy Protection Scheme Based on Aggregate Signature
30. Neuromemristive Circuits for Edge Computing: A Review
31. Multi-hop Cooperative Computation Offloading for Industrial IoT–Edge–Cloud Computing Environments
32. Improving Failure Tolerance in Large-Scale Cloud Computing Systems
33. CDnet: CNN-Based Cloud Detection for Remote Sensing Imagery
34. COOPER-SCHED: A Cooperative Scheduling Framework for Mobile Edge Computing with Expected Deadline Guarantee
35. Dynamic Cloud Network Control Under Reconfiguration Delay and Cost
36. Facilitating Application-aware Bandwidth Allocation in the Cloud with One-step-ahead Traffic Information

### MOBILE COMPUTING

1. Privacy-preserving Crowd-sourced Statistical Data Publishing with An Untrusted Server.
2. Using Crowdsourcing to Provide QoS for Mobile Cloud Computing.
3. Secure Key Agreement and Key Protection for Mobile Device User Authentication.
4. Dynamic and Privacy-Preserving Reputation Management for Blockchain-Based Mobile Crowdsensing.
5. FamilyLog: Monitoring Family Mealtime Activities by Mobile Devices
6. Adaptive Compressive Video Coding for Embedded Camera Sensors: Compressed Domain Motion and Measurements Estimation

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# FINAL YEAR PROJECTS FOR EEE,ECE,MECH,CSE,IT

7. CDN Slicing over a Multi-Domain Edge Cloud
8. DRAG: Deep Reinforcement Learning Based Base Station Activation in Heterogeneous Networks
9. FooDNet: Toward an Optimized Food Delivery Network based on Spatial Crowdsourcing.
10. FlexVi: PHY Aided Flexible Multicast for Video Streaming over IEEE 802.11 WLANs
11. FullStop: A Multi-Sensor System to Characterize Unsafe Vehicle Stopping
12. Geographical Correlation-based Data Collection for Sensor-augmented RFID Systems
13. Implementation of Differential Tag Sampling for COTS RFID Systems
14. Joint Recommendations in Multilayer Mobile Social Networks
15. Optimal Mobile Computation Offloading With Hard Deadline Constraints
16. Optimizing mmWave Wireless Backhaul Scheduling
17. Passive Crowd Speed Estimation in Adjacent Regions With Minimal WiFi Sensing
18. Profit Maximization in 5G+ Networks with Heterogeneous Aerial and Ground Base Stations
19. Quality of Experience-Aware Mobile Edge Caching through a Vehicular Cloud
20. Spatially-Consistent Human Body Blockage Modeling: A State Generation Procedure
21. Take the Field from your Smartphone: Leveraging UAVs for Event Filming
22. Target Detection and Localization Methods using Compartmental Model for Internet of Things
23. Turning Waste into Wealth: Free Control Message Transmissions in Indoor WiFi Networks
24. Online Scheduling for Dynamic VM Migration in Multicast Time-Sensitive Networks
25. Multicast Precoding for Multigateway Multibeam Satellite Systems With Feeder Link Interference
26. Workload Scheduling in Vehicular Networks with Edge Cloud Capabilities

## SECURE COMPUTING

1. Addressing a New Class of Reliability Threats in 3-Dimensional Network-on-Chips
2. An Attribute-Based Framework for Secure Communications in Vehicular Ad Hoc Networks
3. Crypto Terminal Based On Secure Element For Consumer Trusted Blockchain Transactions
4. Data Integrity Auditing without Private Key Storage for Secure Cloud Storage

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## **FINAL YEAR PROJECTS FOR EEE,ECE,MECH,CSE,IT**

5. Extracting Randomness From The Trend of IPI for Cryptographic Operators in Implantable Medical Devices
6. LPPA: Lightweight Privacy-preserving Authentication from Efficient Multi-key Secure Outsourced Computation for Location-based Services in VANETs
7. Sensitive Label Privacy Preservation with Anatomization for Data Publishing
8. Content Propagation for Content-Centric Networking Systems From Location-Based Social Networks
9. Automated Demand Response Framework in ELNs: Decentralized Scheduling and Smart Contract
10. DBank: Predictive Behavioral Analysis of Recent Android Banking Trojans
11. Intelligent Secure Ecosystem based on Meta-heuristic and Functional Link Neural Network for Edge-of-Things

### **DATA MINING**

1. Trust Relationship Prediction in Alibaba E-Commerce Platform
2. Achieving Data Truthfulness and Privacy Preservation in Data Markets
3. Privacy-Preserving Social Media Data Publishing for Personalized Ranking-Based Recommendation.
4. Similarity Search for Dynamic Data Streams.
5. Mining Users Trust From E-Commerce Reviews Based on Sentiment Similarity Analysis.
6. Privacy-Preserving User Profile Matching in Social Networks.
7. Member Behavior in Dynamic Online Communities: Role Affiliation Frequency Model.
8. Practical Multi-Keyword and Boolean Search over Encrypted E-mail in Cloud Server
9. Social-aware Sequential Modeling of User Interests: A Deep Learning Approach.
10. Predicting Consumption Patterns with Repeated and Novel Events.
11. A Parallel Proof of Work to Improve Transaction Speed and Scalability in Blockchain Systems
12. A Skipping FP-tree for Incrementally Intersecting Closed Itemsets in On-Line Stream Mining
13. Exploiting Blockchain Data to Detect Smart Ponzi Schemes on Ethereum

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## **FINAL YEAR PROJECTS FOR EEE,ECE,MECH,CSE,IT**

14. Research of a Possibility of Using Block chain Technology without Tokens to Protect Banking Transactions
15. Fast 3D-HEVC Depth Map Encoding Using Machine Learning
16. A Polynomial-Time Algorithm to Obtain State Machine Cover of Live and Safe Petri Nets
17. Effects of Computerized Emotional Training on Children with High Functioning Autism
18. A 3-D Atrous Convolution Neural Network for Hyperspectral Image Denoising
19. A Delay-Tolerant Payment Scheme Based on the Ethereum Blockchain
20. A Fuzzy Approach to Text Classification With Two-Stage Training for Ambiguous Instances
21. A Novel Hybrid Clustering Algorithm for Topic Detection on Chinese Microblogging Active Transfer Learning
22. Blockchain-based Soybean Traceability in Agricultural Supply Chain
23. Dynamic Fractal Texture Analysis for PolSAR Land Cover Classification
24. Enhancing Sketch-Based Image Retrieval by CNN Semantic Re-ranking
25. Modeling Interaction Structure for Robot Imitation Learning of Human Social Behavior
26. Real-time Privacy-preserving Data Release over Vehicle Trajectory
27. Single Line-to-Ground Faulted Line Detection of Distribution Systems with Resonant Grounding Based on Feature Fusion Framework
28. Wrapper Framework for Test-Cost-Sensitive Feature Selection

### **IMAGE PROCESSING**

1. A Wavelet-Predominant Algorithm Can Evaluate Quality of THz Security Image and Identify Its Usability
2. Adaptive Gaussian Weighted Laplace Prior Regularization Enables Accurate Morphological Reconstruction in Fluorescence Molecular Tomography
3. How to Use the IEEE tran BIBTEX Style
4. Improved Statistically Based Retrievals via Spatial-Spectral Data Compression for IASI Data
5. Joint Sparse Learning with Nonlocal and Local Image Priors for Image Error Concealment
6. Multipatch Unbiased Distance Non-local Adaptive Means with Wavelet Shrinkage
7. Predicting the Quality of Images Compressed after Distortion in Two Steps

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# **FINAL YEAR PROJECTS FOR EEE,ECE,MECH,CSE,IT**

8. Reducing the Hausdorff Distance in Medical Image Segmentation with Convolutional Neural Networks
9. Study of Subjective Quality and Objective BlindQuality Prediction of Stereoscopic Videos
10. Underwater Image Enhancement using Adaptive Retinal Mechanisms
11. Unified Single-Image and Video Super-Resolution via Denoising Algorithms
12. Uniform and Variational Deep Learning for RGB-D Object Recognition and Person Re-Identification
13. Weakly Supervised Estimation of Shadow Confidence Maps in Fetal Ultrasound Imaging
14. Weighted Guided Image Filtering with Steering Kernel
15. Fast Collective Activity Recognition under Weak Supervision

## **ARTIFICIAL INTELLIGENCE**

1. Distributed Multiagent Coordinated Learning for Autonomous Driving in Highways Based on Dynamic Coordination Graphs
2. Joint Task-Recursive Learning for RGB-D Scene Understanding
3. Making Knowledge Tradable in Edge-AI Enabled IoT: A Consortium Blockchain-based Efficient and Incentive Approach
4. Reliable Task Offloading for Vehicular Fog
5. Sum of Squared Fluctuating Two-Ray Random Variables With Wireless Applications
6. Traffic Flow Imputation Using Parallel Data and Generative Adversarial Networks
7. Analytical Size Estimation Methodologies for Electrified Transportation Fueling Infrastructures Using Public-Domain Market Data

## **ANDROID**

1. An efficient Android malware detection system based on method-level behavioral semantic analysis
2. Achieve Privacy-Preserving Priority Classification on Patient Health Data in Remote eHealthcare System.
3. An Indoor Position-Estimation Algorithm Using Smartphone IMU Sensor Data.

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# **FINAL YEAR PROJECTS FOR EEE,ECE,MECH,CSE,IT**

4. Applying Simulated Annealing and Parallel Computing to the Mobile Sequential Recommendation.
5. Dating with Scambots: Understanding the Ecosystem of Fraudulent Dating Applications.
6. RescueMe: Smartphone-Based Self Rescue System for Disaster Rescue.
7. Building and Studying a Password Store that Perfectly Hides Passwords from Itself.
8. Delegated Authorization Framework for HER Services using Attribute Based Encryption.
9. An IOT Based Wearable system using Accelerometers and machine learning for fetal movement monitoring.
10. A Smart Android Based Parking system to reduce the Traffic congestion of Dhaka City.
11. Analysis and detection of malware in Android Applications using Machine Learning.
12. Genetic Algorithm towards Flood Avoidance in Android Application.
13. Multiview Garbage Collection Estimation Using IOT.
14. Real Time Android Ransom ware Detection by Analyzed Android Application.

## **SOFTWARE ENGINEERING**

1. A Massive Analysis of Ethereum Smart Contracts. Empirical study and code metrics.
2. A Parallel Proof of Work to Improve Transaction Speed and Scalability in Block chain Systems
3. Empirical Assessment of Multi morphic Testing
4. Improving Data Analytics with Fast and Adaptive Regularization
5. Improving Failure Tolerance in Large-Scale Cloud Computing Systems
6. Machine Learning Applied to Software Testing : A Systematic Mapping Study
7. Metagraph-based Learning on Heterogeneous Graphs
8. Reactive Auto-completion of Modeling Activities
9. Smart Television Services Using NFV/SDN Network Management
10. Stability in Software Engineering: Survey of the State-of-the-Art and Research Directions
11. What's wrong with My Benchmark Results? Studying Bad Practices in JMH Benchmarks

## **WIRELESS SENSOR NETWORKS**

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## FINAL YEAR PROJECTS FOR EEE,ECE,MECH,CSE,IT

1. A Configurable Dielectric Resonator based Passive Wireless Sensor for Crack Monitoring
2. A Supplier-Firm-Buyer Framework for Computation and Content Resource Assignment in Wireless Virtual Networks
3. An Energy Efficient Multi-User Asynchronous Wireless Transmitter for Biomedical Signal Acquisition
4. D2D Communications Meet Mobile Edge Computing for Enhanced Computation Capacity in Cellular Networks
5. Design of Multichannel and Multi hop Low-Power Wide-Area Network for Aircraft Vibration Monitoring
6. Distributed  $H_\infty$  State Estimator Design for Time-Delay Periodic Systems Over Scheduling Sensor Networks
7. Efficient Algorithms for Mobile Sink Aided Data Collection from Dedicated and Virtual Aggregation nodes in Energy Harvesting Wireless Sensor Networks
8. Efficient and Secure Image Communication System Based on Compressed Sensing for IoT Monitoring Applications
9. EM Monitoring and Classification of IEMI and Protocol-Based Attacks on IEEE 802.11n Communication Networks
10. Energy Provision Minimization in Wireless Powered Communication Networks with Network Throughput Demand: TDMA or NOMA?
11. FRCA: A Novel Flexible Routing Computing Approach for Wireless Sensor Networks
12. Generalized Wireless-Powered Communications: When to Activate Wireless Power Transfer?
13. On Feasibility of Multichannel Reconfigurable Wireless Sensor Networks Under Real-Time and Energy Constraints
14. Optimal best path selection algorithm for cluster based multi-hop MIMO cooperative transmission for vehicular communications
15. Reliable State Estimation of an Unmanned Aerial Vehicle Over a Distributed Wireless IoT Network
16. Resilient  $H_\infty$  Filtering for Event-Triggered Networked Systems Under Non periodic DoS Jamming Attacks
17. State-Observer Design of a PDE-Modeled Mining Cable Elevator With Time-Varying Sensor Delays

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## **FINAL YEAR PROJECTS FOR EEE,ECE,MECH,CSE,IT**

18. Statistical Analysis of Multiple Antenna Strategies for Wireless Energy Transfer
19. Threshold-Free Physical Layer Authentication Based on Machine Learning for Industrial Wireless CPS

### **NETWORKING**

1. Location Semantics Identification via Users' Click streams in Mobile Social Networking.
2. ART4SQLi: The ART of SQL Injection Vulnerability Discovery
3. Proof of Delivery in a Trustless Network
4. Catch Me if You Can: A Closer Look at Malicious Co-Residency on the Cloud
5. Peer Prediction-Based Trustworthiness Evaluation and Trustworthy Service Rating in Social Networks.
6. Defending Against Web Application Attacks: Approaches, Challenges and Implications
7. Adding Support for Automatic Enforcement of Security Policies in NFV Networks
8. Attack Detection and Approximation in Nonlinear Networked Control Systems Using Neural Networks
9. Beam forming Network Optimization for Reducing Channel Time Variation in High-Mobility Massive MIMO
10. Catch Me if You Can: A Closer Look at Malicious Co-Residency on the Cloud
11. Cognitive Network Management and Control with Significantly Reduced State Sensing
12. Crypto Terminal Based On Secure Element For Consumer Trusted Block chain Transactions
13. EM Monitoring and Classification of IEMI and Protocol-Based Attacks on IEEE 802.11n Communication Networks
14. HO-OTSVD: A Novel Tensor Decomposition and Its Incremental Decomposition for Cyber-Physical-Social Networks (CPSN)
15. Joint transaction transmission and channel selection in cognitive radio based blockchain networks: a deep reinforcement learning approach
16. Location Semantics Identification via Users' Click streams in Mobile Social Networking
17. Minimum Connected Dominating Set Under Routing Cost Constraint in Wireless Sensor Networks With Different Transmission Ranges
18. Multistep Prediction of Dynamic Systems With Recurrent Neural Networks

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# FINAL YEAR PROJECTS FOR EEE,ECE,MECH,CSE,IT

19. Neuro memristive Circuits for Edge Computing: A Review
20. Noise Robust Projection Rule for Hyperbolic Hopfield Neural Networks
21.  $O(2)$ -Valued Hopfield Neural Networks
22. Proof of Delivery in a Trustless Network
23. Robust Event-Triggered Control Invariance of Probabilistic Boolean Control Networks
24. Robustness Optimization Scheme With Multi-Population Co-Evolution for Scale-Free Wireless Sensor Networks
25. Routing via Functions in Virtual Networks: The Curse of Choices
26. Set-Membership Estimation for Complex Networks Subject to Linear and Nonlinear Bounded Attacks
27. The Robustness of Outputs With Respect to Disturbances for Boolean Control Networks

## NS3

1. Performance Analysis of Wireless Sensor Networks Under Adverse Scenario of Attack
2. Data Transfer Methods for Information-Centric Networking-Based Wireless Sensor Network Platform
3. An efficient localization algorithm for Mobile Wireless Sensor Networks
4. Energy-Aware Clustering Algorithms Used in Wireless Sensor Networks

## NETWORK SECURITY

1. AnFRA: Anonymous and Fast Roaming Authentication for Space information Network.
2. SDTE: A Secure Block chain-based Data Trading Ecosystem.
3. On the exact Relationship between the success Rate of Template Attack and Different Parameters.
4. Secure OFDM System Design and Capacity Analysis under Disguised Jamming.
5. Reducing Security Risks of Suspicious Data and codes Through a Novel Dynamic Defense Model.
6. Privacy-Preserving Cloud Based Road Condition Monitoring with Source Authentication in VANETs.
7. Analysis of Rolling Shutter Effect on EVF-Based Video Forensics.

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# FINAL YEAR PROJECTS FOR EEE,ECE,MECH,CSE,IT

## DEPENDABLE AND SECURE COMPUTING

1. Enabling Semantic Search Based on Conceptual Graphs over Encrypted Outsourced Data
2. Design of Secure Authenticated Key Management Protocol for Cloud Computing Environments
3. Privacy-Preserving Multi-Keyword Top-k Similarity Search Over Encrypted Data.
4. Differentially Private Publication of Vertically Partitioned Data.
5. FS-PEKS: Lattice-based Forward Secure Public-key Encryption with Keyword Search for Cloud-assisted Industrial Internet of Things.
6. Searchable Symmetric Encryption with Forward Search Privacy.
7. A Secure Searchable Encryption Framework for Privacy-Critical Cloud Storage Services.

## IoT

1. A Novel Attribute-Based Access Control Scheme Using Blockchain for IoT
2. Privacy-Oriented Blockchain-Based Distributed Key Management Architecture for Hierarchical Access Control in the IoT Scenario.
3. Securing Things in the Healthcare Internet of Things.
4. SURE-H: A Secure IoT Enabled Smart Home System
5. A Generalized Constraint of Privacy: a-Mutual Information Security
6. Dynamic Software Updates to Enhance Security and Privacy in High Availability Energy Management Applications in Smart Cities
7. A Novel Attribute-Based Access Control Scheme Using Blockchain for IoT
8. IOT Contactless Covid Testing Booth Automation
9. IOT Social Distancing & Monitoring Robot For Queue
10. IOT Covid Patient Health Monitor in Quarantine
11. IOT based Manhole Detection and Monitoring System
12. IOT based Smart Energy Meter Monitoring with Theft Detection
13. DIY 2G Android Phone with Gesture Interface
14. IOT based Three Phase Power Failure Monitoring with SMS Alerts
15. IOT based Intelligent Gas Leakage Detector Using Arduino
16. IOT based Smart Agriculture Monitoring System Project
17. IOT Based Automatic Vehicle Accident Detection and Rescue System

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## **FINAL YEAR PROJECTS FOR EEE,ECE,MECH,CSE,IT**

18. Gas Leakage Detection with Buzzer System using Atmega
19. Greenhouse Monitoring and Control System using IOT Project
20. IOT Based Coal Mine Safety Monitoring and Alerting System
21. IOT Based Heart Monitoring System Using ECG
22. IOT based Anti-theft Flooring System using Raspberry Pi
23. Raspberry Pi based Weather Reporting Over IOT
24. IOT Based Monitoring System for Comatose Patients
25. Charging Station for E-Vehicle using Solar with IOT
26. Investigation on Carbon Monoxide Monitoring and Alert System for Vehicles
27. IOT Circuit Breaker Project Women Safety Night Patrolling
28. IOT Mining Tracking & Worker Safety Helmet
29. Gas Level Detection and Automatic Booking Using IoT
30. IOT Prison Break Monitoring & Alerting System Raspberry Pi
31. Air and Noise Pollution Monitoring System Over IOT
32. IOT Energy Meter with Current, Voltage and Cost Monitoring System
33. IOT Industry Protection System Arduino
34. IOT Color Based Product Sorting Machine Project
35. IOT Paralysis Patient Health Care Project
36. IOT Car Parking System Smart Dustbin With IOT Notifications
37. IOT Smart Mirror With News & Temperature
38. IOT Garbage Monitoring With Weight Sensing
39. IOT Based ICU Patient Monitoring System Biometric Attendance System Over IOT
40. IOT Gas Pipe Leakage Detector Insect Robot
41. IOT Irrigation Monitoring & Controller System
42. IOT Electronic Door Opener
43. IOT Home Automation Using Raspberry Pi
44. IOT Alcohol & Health Monitoring System
45. IOT Liquid Level Monitoring System
46. IOT Garbage Monitoring System
47. The development of IoT-wetting front detector (IOT-WFD) for efficient Irrigation management and decision support system
48. IOT Based Office Automation

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## **FINAL YEAR PROJECTS FOR EEE,ECE,MECH,CSE,IT**

49. IOT Based Industry Automation
50. IOT Weather Reporting System
51. IOT Based Antenna Positioning System
52. IOT Based Fire Department Alerting System
53. IOT Solar Power Monitoring System
54. IOT Streetlight Controller System
55. IOT Traffic Signal Monitoring & Controller System
56. IOT Industry Automation Using Raspberry Pi
57. IOT Underground Cable Fault Detector Project
58. IOT Air & Sound Pollution Monitoring System Energy Meter Monitoring Over IOT
59. IOT Based Person/Wheelchair Fall Detection
60. NOMA-Enabled Mobile Edge Computing for Internet of Things via Joint Communication and Computation Resource Allocations
61. A Cloud-MEC Collaborative Task Offloading Scheme With Service Orchestration
62. Performance Analysis for Multihop Cognitive Radio Networks With Energy Harvesting by Using Stochastic Geometry
63. Intelligent Traffic Adaptive Resource Allocation for Edge Computing-Based 5G Networks
64. Design of Binary Erasure Code With Triple Simultaneous Objectives for Distributed Edge Caching in Industrial Internet of Things Networks
65. Hybrid Precoding for an Adaptive Interference Decoding SWIPT System With Full-Duplex IoT Devices

### **EMBEDDED SYSTEMS**

1. Internet of Things Mobile – Air Pollution Monitoring System (IoT-Mob air).
2. GSM Based Low-cost Gas Leakage, Explosion and Fire Alert System with Advanced Security.
3. Waste Water Management for Smart Cities.
4. Design and Implementation of an Interactive Road Safety System for Young Bikers.

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## FINAL YEAR PROJECTS FOR EEE,ECE,MECH,CSE,IT

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5. Vehicle Accident Prevent cum Location Monitoring System.
6. IoT-Based Interactive Dual Mode Smart Home Automation.
7. A Novel Parking Management System, for Smart Cities, to save Fuel, Time, and Money.
8. Development of Voice Control and Home Security.
9. Towards A Novel Approach for Designing Smart Classrooms.
10. Animal monitoring based on IoT technologies.
11. Monitoring of Mining Workers At High Altitude.
12. Design and Development of Air Pollution Monitoring.
13. A Smart Home Automation and Metering System using Internet of Things (IoT).
14. Smart School Bus: Ensuring Safety On The Road For School Children.
15. An in-pipe leak detection robot with a neural-network based leak verification system.
16. OB CITY – Definition of a Family-Based Intervention for Childhood Obesity Supported by Information and Communication Technologies.
17. Automated Medical Waste Segregation Machine Using MicroController.
18. Railroad Track Condition Monitoring Using Inertial Sensors
19. Planning and Navigation of Climbing Robots in Low-Gravity Environments.
20. Diagnostic Measurement Practices for Instrument Transformers.
21. Design Of A Monitoring System For Waste Management Using IoT.
22. Multi Purpose Security System in Automobile Industry.
23. IoT application for real-time monitoring of Solar Home Systems .
24. Vehicle breaking Support System.
25. Distributed Inference Condition Monitoring System for Rural Infrastructure in the Developing World.
26. Automatic Detection of Wind Turbine Blade Surface Cracks Based on UAV-taken Images.
27. Smart Pilgrim: A Mobile-Sensor-Cloud based System to Safeguard Pilgrims through Smart Environment.
28. ECG-Based Secure Health care Monitoring System.
29. A Health Remote Monitoring Application based on Wireless Body Area Network.
30. Intelligent Medicine Box For Medication Management Using IOT.
31. Health Monitoring and Tracking System For Soldiers using IOT.

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## FINAL YEAR PROJECTS FOR EEE,ECE,MECH,CSE,IT

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32. A Smart Home Appliance Control System For Physically Disabled Person.
33. Design and Implementation of a Bluetooth-Based MCU and GSM for Wetness Detection.
34. Health Monitoring System for Elderly and Disabled People.
35. IoT Based Smart Edge for Global Health: Remote Monitoring with Severity Detection and Alerts Transmission.
36. IoT-Fog based Healthcare Framework to Identify and Control Hypertension Attack.
37. Non-invasive Flexible and Stretchable Wearable Sensors with Nano-based Enhancement for Chronic Disease Care.
38. Vital Sign Measurement in Telemedicine Rehabilitation Based on Intelligent Wearable Medical Devices.
39. Cattle Health Monitoring System Using Wireless Sensor Network.
40. Health-monitoring of pregnant women Design requirements, and proposed reference architecture.
41. A New Design Approach for Gesture Controlled Smart Wheelchair Utilizing Microcontroller.
42. Adjustment of Bed for a Patient Through Gesture Recognition.
43. An Intelligent Mobile Agents System for Sudden Infant Death Syndrome Monitoring.
44. Wearable Heart Rate Sensor Systems for Wireless Canine Health Monitoring.
45. Implanted Knee Kinematics Prediction: comparative performance analysis of machine learning techniques
46. A Wireless Continuous Patient Monitoring System for Dengue; Wi-Mon
47. Bore well water quality and motor monitoring based on IOT gateway.
48. On Access Control in Cabin-Based Transport Systems.
49. MicroController Based Smart Fingerprint Authentication System.
50. End to End IoT Based Hazard Monitoring System.
51. Monitoring Effect of Air Pollution on Agriculture using WSNs.
52. A Proposed Model of Integrated Smart Parking Solution for a city.
53. Lane change detection algorithm on real world driving for arbitrary road infrastructures.
54. Wireless Digital Traffic Signs of the Future.
55. Research and design of environmental monitoring and road lighting system based on the Internet of things.

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## FINAL YEAR PROJECTS FOR EEE,ECE,MECH,CSE,IT

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56. Energy-efficient border intrusion detection using wireless sensors network.
57. Highly Secure Multiple Account Bank Affinity.
58. Smart home management system based on face recognition index in real-time.
59. A deep learning facial expression recognition based scoring system for restaurants.
60. Smart Leaf Infection Identification and Fertilizer Spray.
61. OTP Based Cardless Transaction using ATM.
62. Bone tumour detection and classification.
63. Enhancing bank security using face, iris and finger vein technology.
64. Gesture Recognition and finger tip detection for Human Computer Interaction.
65. Diseases Detection of Various Plant Leaf Using Image Processing Techniques A Review.
66. IOT based safety and health monitoring for construction worker.
67. Real Time Monitoring & Analyzation Of Hazardous Parameters In Underground Coal Mines Using Intelligent Helmet System.
68. New Smart Home's energy management system design and implementation for frugal smart cities.
69. Monitoring Corrosion Process of Reinforced Concrete Structure Using FBG Strain Sensor.
70. Laboratory validation of corrosion-induced delamination in concrete by ground penetrating radar.
71. IOT based Smart Garbage Monitoring System using Raspberry Pi.
72. Design and Implementation of the Smart Glove to Aid the Visually Impaired.
73. IoT based Smart Parking and Traffic Management System for Middle East College.
74. Rice Donation System in Orphanage Based on IOT, Raspberry-pi and Block chain.
75. Automatic Road Accident Detection using Ultrasonic Sensor.
76. Smart Fire Management System employing Sensor based Automatic Water Sprinkler.
77. Water Quality Monitoring and Waste Management using IoT.
78. Automated Blood Bank System Using Raspberry Pi.
79. Advanced Anti-Terrorism Unmanned Ground Vehicle.
80. An Early Detection System for Proactive Management of Raw Milk Quality: An Australian Case Study.

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## **FINAL YEAR PROJECTS FOR EEE,ECE,MECH,CSE,IT**

81. Design and Implementation of a Smart Home Energy Saving System with Active Loading Feature Identification and Power Management.
82. IoT-BBMS: Internet of Things-based Baby Monitoring System for Smart Cradle.
83. Biometrically Secured Electronic Voting Machine.
84. Voice Operated Intelligent Fire Extinguishing Vehicle.
85. Enabling Technologies for the Internet of Health Things.
86. Smart ring for women safety using IOT.
87. Smartphone-Based System for Improving Pedestrian Safety.
88. Smart Energy Metering and Power Theft Control using Arduino & GSM.
89. Implementation of Environment Parameters Monitoring in a Manufacturing Industry using IOT.
90. Lifetime Optimization of Wireless Sensor Networks for Gas Monitoring in Underground Coal Mining.
91. IoT based Intelligent Waste Bin.
92. IoT based Green House Environment Monitoring.
93. A Health Remote Monitoring Application Based On Wireless Body Area Networks.
94. Intelligent Ultrasonic Detection of Walking Stick for the Blind.
95. Surveillance Robot with Human Detection.
96. Unsupervised Online System Identification for Underwater Robotic Vehicles.
97. Design and Implementation of a microcontroller based low cost DTMF Controlled Acoustic & Visual Detecting Robot to Monitor Child & Aged Person.
98. Voice Operated Intelligent Fire Extinguishing Vehicle

### **GENERAL ELECTRONIC PROJECTS**

1. A GPS-Based Indoor Positioning System With Delayed Repeaters
2. Voice Operated Intelligent Fire Extinguishing Vehicle
3. Arduino Based Smart Fingerprint Authentication System
4. Smart Water Leak Controller in Metro Water Supply Lines
5. Advanced Automatic Detection of Cracks in Railway Tracks
6. Camel Monitoring and Tracking System Across Fenced Highways
7. Study on RFID Based Book Tracking and Library Information System
8. Design of Smart Helmet for Accident Avoidance

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## FINAL YEAR PROJECTS FOR EEE,ECE,MECH,CSE,IT

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9. A Development Architecture for the Intelligent Animal Care and Management System  
Based on the Internet of Things and Artificial Intelligence
10. Detection of pH value and Pest control for eco-friendly agriculture
11. Wireless Toward the Era of Intelligent Vehicles
12. Internet of Everything as a Platform for Extreme Automation
13. Autonomous Energy-Efficient Wireless Sensor Network Platform for Home/Office  
Automation
14. Renewable Powered Portable Weather Update Station
15. Digitized water consumption tracking cum awareness system
16. An IoT Solution for Secured and Remote Sound Level Monitoring
17. Smart Safety Monitoring System for Sewage Workers with Two Way Communication
18. Smart wheelchair integrating head gesture navigation
19. Conceptual Framework of Smart Device for Smart Home Management Based on RFID  
and IoT
20. Pedestrian Detection in Automotive Safety: Understanding State-of-the-Art
21. Iot agriculture system based on lorawan
22. Iot solutions for precision agriculture
23. Iot solutions for crop protection against wild animal attacks
24. Iot based smart crop-field monitoring and automation irrigation
25. Animal monitoring based on iot technologies
26. Smart health monitoring system with iot
27. Fog assisted-iot enabled patient health monitoring in smart homes
28. Fast access for zigbee-enabled iot devices using raspberry pi
29. Design and implementation of smart home remote monitoring system based on arm11
30. The development of quail eggs smart incubator for hatching system based on  
microcontroller and internet of things (iot).
31. Intelligent medicine box for medication management using iot
32. The design of iot system for icehouse manufacturing
33. Iot based solar powered agribot for irrigation and farm monitoring: agribot for irrigation  
and farm monitoring
34. Syndrome: spectral analysis for anomaly detection on medical iot and embedded devices

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## **FINAL YEAR PROJECTS FOR EEE,ECE,MECH,CSE,IT**

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35. Design and implementation of iot based smart laboratory
36. Context-sensitive access in industrial internet of things (iiot) healthcare applications
37. Smart home security using internet of things
38. An iot based water supply monitoring and controlling system
39. Automatic transformer fault detection and protection system
40. On line temperature monitoring of power distribution equipment
41. Automatic Optimization and Control of Power Factor, Reactive Power and Reduction of THD for Linear and Nonlinear Load by Using Arduino UNO
42. Development of energy management and warning system for resident: An energy saving solution
43. Real time monitoring & protection of coal conveyor using microcontroller
44. Automotive Crack Detection for Railway Track Using Ultrasonic Sensor

### **BIO MEDICAL**

1. Voice Recognition based intelligent Wheelchair and GPS Tracking System
2. A Supervised Intrusion Detection System for Smart Home IoT Devices
3. Health Monitoring System for Elderly and Disabled People
4. IoT-Based Smart Edge for Global Health: Remote Monitoring With Severity Detection and Alerts Transmission
5. Designing and Implementation of Microcontroller Based Non-Invasive Health Monitoring System
6. Aero Ambulance Quad copter Based Technology for An Emergency Healthcare
7. A Microcontroller Based Missing Heartbeat Detection And Real Time Heart Rate Monitoring System
8. IoT Based Remote Health Monitoring System for Patients and Elderly People
9. A Novel Cloud-Based Framework for the Elderly Healthcare Services Using Digital Twin
10. An arm based wireless sensors network for monitoring of plants health
11. Fog assisted application support for animal behaviour analysis and health monitoring in dairy farming

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## **FINAL YEAR PROJECTS FOR EEE,ECE,MECH,CSE,IT**

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12. Consumer health care: current trends in consumer health monitoring
13. In-ear audio wearable: measurement of heart and breathing rates for health and safety monitoring
14. Modular and personalized smart health application design in a smart city environment
15. An intelligent mobile agents system for sudden infant death syndrome monitoring
16. Architecture and design of an integrated wearable, iot and cloud based telemedicine system for rural healthcare
17. Smart Assistant for the Physically Challenged
18. Non-invasive blood glucose estimation
19. Robotic automated external defibrillator ambulance for emergency medical service in smart cities.

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