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FINAL YEAR PROJECTS

BE, ME, B. TECH, M. TECH, MCA, BCA, B.SC, MBA

IEEE PROJECTS

ELECTRONICS PROJECTS 2023-24

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Electronics Projects for Engineering Students

ECE includes both the fundamentals of electrical engineering and communication engineering. Electronic components, circuits, and communication tools including transmitters, receivers, and integrated circuits all are deal with in IT (IC). Additionally, it covers fundamental electronics, analogue and digital voice, video, and data transmission and reception (for instance, AM, FM, and DTH), microprocessors, satellite communication, microwave engineering, antennas, and wave progression. It aims to deepen students' understanding of fundamental concepts and theories so they are better prepared for their professional work in the field of electronics and communications engineering, which involves analysis, systems implementation, operation, production, and maintenance of a variety of applications.

Electronics Project Ideas

The latest and revolutionary Electronics Project Ideas can be find here at Igeeks Technologies. We provide microcontroller based projects, which include sensor-based projects, wireless communication projects, GSM & GPS based projects, Android based projects, Touch screen based projects, Robotics projects, and RFID based projects. We develop projects in different microcontrollers like 8051 microcontroller, PIC microcontroller, AVR microcontroller, Arduino UNO & Raspberry Pi.

In what way can the students benefit by choosing Igeeks for their Projects?

We have plenty of options for any electronics domain students to choose from for their doing UG or PG final year projects as well as the mini-project. Be it the simple embedded application project or sophisticated, we are always there to help the students for all their needs from the start of their project. We have served over 10,000 + students for their academic projects by a pool of embedded equipment, resources for project implementation, infrastructure, etc. As many latest projects on embedded systems for ECE have been comprehensively listed for you, it is now your turn to make the wiser decision to choose Igeeks for your project so that you can be risk and stress free yet able to complete your project without any hustle.

| PYTHO | N – ML, AI, NN, IP, DL SOFTWARE BASED PROJECT TITLES |
|---------|--|
| IPMA001 | 21_IEEE_MONITORING PANDEMIC PRECAUTIONARY PROTOCOLS USING REAL-TIME SURVEILLANCE AND ARTIFICIAL INTELLIGENCE |
| IPMA002 | DEEP-LEARNING-BASED ROAD CRACK DETECTION FRAMEWORKS FOR DASHCAM-CAPTURED IMAGES |
| IPMA003 | A FRAMEWORK FOR ANALYSIS OF ROAD ACCIDENTS |
| IPMA004 | 25_PY_SUICIDAL IDEATION DETECTION: A REVIEW OF MACHINE LEARNING METHODS AND APPLICATIONS |
| IPMA005 | 26_PY_SOCIAL DISTANCING DETECTION FOR COVID-19 USING OPENCV AND DEEP LEARNING |
| IPMA006 | 27_PY_PREDICTING ANXIETY DEPRESSION AND STRESS IN MODERN LIFE USING DASS21 QUESTIONNAIRE DATASET |
| IPMA007 | 28_PY_FEATURES EXTRACTION AND CLASSIFICATION FOR DETECTION OF KIDNEY STONE REGION IN ULTRASOUND IMAGES |
| IPMA008 | 29_PY_PREDICTING EXPLOSIVE GAS COMPONENTS USING MACHINE LEARNING |
| IPMA009 | 30_PY_PERFORMANCE EVALUATION OF ML CREDIT CARD FRAUD DETECTION |
| IPMA010 | 32_PY_20_IN-DEPTH SURVEY TO DETECT, MONITOR AND MANAGE CROWD |
| IPMA011 | 33_PY_FAKE CURRENCY DETECTION USING DIGITAL IMAGE PROCESSING |
| IPMA012 | 35_PY_GENDER RECOGNITION BY VOICE USING AN IMPROVED ML ALGORITHM |
| IPMA013 | 36_PY_IMAGE PROCESSING FOR MANGO RIPENING STAGE DETECTION |
| IPMA014 | 15_PY_MACHINE LEARNING TECHNIQUES FOR STRESS PREDICTION IN WORKING EMPLOYEES |
| IPMA015 | 16_PY_INTRADAY STOCK PRICE FORECASTING USING AN AUTO REGRESSIVE TIME SERIES MODEL – ARIMA |
| IPMA016 | 16_PY_NIFTY INDEX PREDICTION APPROACH FOR STOCK MARKET VOLATILITY BASED ON TIME SERIES – ARIMA |
| IPMA017 | 17_PY_HEART DISEASE IDENTIFICATION METHOD USING MACHINE LEARNING CLASSIFICATION IN E-HEALTHCARE |
| IPMA018 | 18_PY_LOAN APPROVAL PREDICTION BASED ON MACHINE LEARNING APPROACH |
| IPMA019 | 19_PY_FRUIT DISEASE CLASSIFICATION AND IDENTIFICATION USING IMAGE PROCESSING |
| IPMA020 | 20_PY_CLASIFICATION OF MEDICINAL PLANTS BY VISUAL CHARACTERISTICS OF FLOWERS |
| IPMA021 | 21_PY_KRISHI SADANA - PESTS CLASSIFICATION AND DETECTION USING MACHINE LEARNING |

| IPMA022 | 22_PY_COVID-19 FUTURE FORECASTING OF DEATH RATE USING ML |
|---------|--|
| IPMA023 | 25_PY_SUICIDAL IDEATION DETECTION A REVIEW OF ML METHODS |
| IPMA024 | CROP PREDICTION AND EFFICIENT USE OF FERTILIZERS USING MACHINE LEARNING |
| IPMA025 | MACHINE LEARNING ANALYSIS OF AIRBREATHING PROPULSION OF TUROJET ENGINE |
| IPMA026 | MACHINE LEARNING TECHNIQUES FOR STRESS PREDICTION IN WORKING EMPLOYEES |
| IPMA027 | COVID-19 FUTURE FORECASTING OF DEATH RATE USING SUPERVISED MACHINE LEANING |
| | ALGORITHM |
| IPMA028 | 1_PY_MACHINE LEARNING APPROACH FOR AIR QUALITY PREDICTION AND ANALYSIS |
| IPMA029 | 2_PY_FEATURE EXTRACTOR ANALYSIS FOR TRAFFIC CLEARANCE IN EMERGENCY FOR |
| | AMBULANCE |
| IPMA030 | 3_PY_SKIN DISEASE RECOGNITION CNN |
| IPMA031 | 3_PY_SKIN DISEASE RECOGNITION METHOD BASED ON IMAGE COLOR AND TEXTURE |
| | FEATURES |
| IPMA032 | 5_PY_ARTIFICAL INTELLIGENCE BASED MATERIAL SORTING FOR INDUSTRIAL PRODUCTION |
| IPMA033 | 6_PY_CNN BASED LEAF DISEASE IDENTIFICATION AND REMEDY RECOMMENDATION SYSTEM |
| IPMA034 | 8_PY_VIRTUAL TRY ON SYSTEM FOR GARMENTS OUTLETS |
| IPMA035 | 14_PY_MACHINE LEARNING BASED BRAIN TUMOR ANALYSIS USING CONVOLUTIONAL |
| | NEURAL NETWORK |
| IPMA036 | 14_PY_DEEP LEARNING FOR MULTIGRADE BRAIN TUMOR CLASSIFICATION IN SMART |
| | HEALTHCARE SYSTEMS A PROSPECTIVE SURVEY |
| IPMA037 | STRESS PREDICTION OF PROFESSIONAL STUDENTS USING MACHINE LEARNING |
| IPMA038 | A PREDICTION APPROACH FOR STOCK MARKET VOLATILITY BASED ON TIME SERIES DATA |
| IPMA039 | A WAVELET BASED DEEP LEARNING METHOD FOR UNDERWATER IMAGE SUPER RESOLUTION |
| | RECONSTRUCTION |
| IPMA040 | DEEP NEURAL NETWORK ARCHITECTURE APPLICATION FOR FACIAL EXPRESSION |
| | RECOGNITION |
| IPMA041 | COVID-19 SOCIAL DISTANCING DETECTOR IN VIDEO |
| IPMA042 | MACHINE LEARNING METHODS FOR DISEASE PREDICTION WITH CLAIMS DATA |
| IPMA043 | TIME SERIES PREDICTION OF AGRICULTURAL PRODUCTS PRICE BASED ON TIME ALIGNMENT |
| | OF RNN |
| IPMA044 | AN EFFICIENT EDGE DETECTION APPROACH TO PROVIDE BETTER EDGE CONNECTIVITY FOR |
| | IMAGE ANALYSIS |
| IPMA045 | GENDER CLASSIFICATION USING SENTIMENT ANALYSIS AND DEEP LEARNING IN A HEALTH |
| | WEB FORUM |
| IPMA046 | CNN BASED LEAF DISEASE IDENTIFICATION AND REMEDY RECOMMENDATION SYSTEM |
| IPMA047 | IDENTIFICATION OF PLANT DISEASE USING IMAGE PROCESSING TECHNIQUE |
| IPMA048 | EFFECTIVE HEART DISEASE PREDICTION USING HYBRID MACHINE LEARNING TECHNIQUES |
| IPMA049 | COMPARISON OF MACHINE LEARNING METHODS FOR BREAST CANCER DIAGNOSIS |
| IPMA050 | CLUSTERS OF FEATURES USING COMPLEMENTARY INFORMATION APPLIED TO GENDER |
| | CLASSIFICATION FROM FACE IMAGES |
| IPMA051 | AIR LEARNING INTERPOLATION, PREDICTION, AND FEATURE ANALYSIS OF FINE-GRAINED AIR |
| | |

| | QUALITY |
|---------|---|
| IPMA052 | FACE RECOGNITION AND AGE ESTIMATION IMPLICATIONS OF CHANGES IN FACIAL |
| | FEATURES |
| IPMA053 | A PREDICTIVE DATA FEATURE EXPLORATION-BASED AIR QUALITY PREDICTION APPROACH |
| IPMA054 | EFFECTIVE HEART DISEASE PREDICTION USING HYBRID MACHINE LEARNING TECHNIQUES |
| IPMA055 | DEVELOPMENT OF A FULLY CROSS-VALIDATED BAYESIAN NETWORK APPROACH FOR LOCAL |
| | CONTROL PREDICTION IN LUNG CANCER |
| IPMA056 | MACHINE LEARNING ANALYSIS OF SPEECH DETECTS ANXIETY AND DEPRESSION IN EARLY |
| | CHILDHOOD |

| PYTHO | N – ML, AI, NN, IP, DL BASED PROJECTS USING HARDWARE |
|----------------|---|
| TITLES | |
| IPMH001 | CROP PREDICTION AND EFFICIENT USE OF FERTILIZERS USING MACHINE LEARNING |
| IPMH002 | ML USING SENSORS FOR AIR BREATHING PROPULSION OF TURBOJET ENGINE |
| IPMH003 | ML USING SENSORS FOR STRESS PREDICTION IN WORKING EMPLOYEES |
| ІРМН004 | REAL TIME FACE MASK DETECTOR FOR COVID-19 SAFE SOCIAL DISTANCING |
| IPMH005 | ARTIFICIAL INTELLIGENCE BASED MATERIAL SORTING FOR INDUSTRIAL PRODUCTION |
| ІРМН006 | 1_PYEM_TERRORBOT - CASCADE CLASSIFIER TO DETECT TERRORIST AND SOLDIERS |
| IPMH007 | 2_PYEM_HUMAN STRESS ANALYSIS USING SENSORS AND MACHINE LEARNING TECHNIQUES |
| IPMH008 | 3_PYEM_FEATURE EXTRACTION BASED AIRPORT BAGGAGE CONVEYOR ALERT SYSTEM |
| IPMH009 | 4_PYEM_AUTOMATIC CONTROL OF DRIVER FATIGUE AND DROWSINESS LANDMARK |
| | PREDICTOR |
| IPMH010 | 5_PY_ARTIFICAL INTELLIGENCE BASED MATERIAL SORTING FOR INDUSTRIAL PRODUCTION |
| IPMH011 | 6_PY_CNN BASED LEAF DISEASE IDENTIFICATION AND REMEDY RECOMMENDATION SYSTEM |
| IPMH012 | 7_PYEM_FEATURE EXTRACTOR ANALYSIS FOR TRAFFIC CLEARANCE IN EMERGENCY FOR |
| | AMBULANCE AND FIRE ENGINES |
| IPMH013 | 8_PYEM_DEVELOPMENT OF FOOD TRACKING SYSTEM USING MACHINE LEARNING |
| IPMH014 | 9_PYEM_TRAINABLE AUTOMATIC ROBOT FOR AGRICULTURE PLANT LEAF WEEDING |
| IPMH015 | 10_PYEM_MACHINE LEARNING APPROACH FOR AIR QUALITY PREDICTION AND ANALYSIS |
| ІРМН016 | 11_PYEM_ML ANALYSIS OF EMOTION DETECTS, ANXIETY AND DEPRESSION IN ADULT |
| IPMH017 | 12_PYEM_MACHINE LEARNING APPLIED TO ELECTRIFIED VEHICLE BATTERY SOC AND SOH |
| | ESTIMATION |
| IPMH018 | 13_PYEM_REAL-TIME EYE TRACKING FOR PASSWORD - GAZE BASED PIN AUTHENTICATION |
| IPMH019 | 14_PY_MACHINE LEARNING BASED BRAIN TUMOR ANALYSIS USING CNN WITH SMS |
| | NOTIFICATION |
| IPMH020 | 15_PYEM_MOTORCYCLE HELMET WEAR ANALYSIS USING SIFT FEATURE EXTRACTOR |
| IPMH021 | 16_PYEM_MACHINE LEARNING BASED FINGER GESTURE RECOGNITION FROM HOSPITAL ASSISTANT |
| IPMH022 | 17_PYEM_HUMAN ACTIVITY ANALYSIS USING SENSORS AND MACHINE LEARNING |

| | TECHNIQUES |
|----------------|---|
| IPMH023 | 18_PYEM_CROP PREDICTION AND EFFICIENT USE OF FERTILIZERS USING MACHINE LEARNING |
| IPMH024 | 19_PYEM_COVID-19 FACE MASK DETECTION WITH TEMPERATURE AND AUTO SANITIZER |
| IPMH025 | 19_PYEM_REAL TIME FACE MASK DETECTOR FOR COVID-19 SAFE SOCIAL DISTANCING |
| IPMH026 | 21_PYEM_ML APPROACH FOR AIR QUALITY PREDICTION AND ANALYSIS |
| IPMH027 | 26_PYEM_MONITORING SOCIAL DISTANCING FOR COVID-19 USING OPENCV AND AUTO |
| | SANITIZATION |
| IPMH028 | FACE RECOGNITION AND AGE ESTIMATION IMPLICATIONS OF CHANGES IN FACIAL |
| | FEATURES |
| IPMH029 | CVUCAMS: COMPUTER VISION BASED UNOBTRUSIVE CLASSROOM ATTENDANCE |
| | MANAGEMENT SYSTEM |
| ІРМН030 | IP-SUPER-PIXEL BASED FINGER EARTH MOVER'S DISTANCE FOR HAND GESTURE |
| | RECOGNITION |
| IPMH031 | ACCELEROMETER-BASED HUMAN FALL DETECTION USING CNN |
| ІРМН032 | INDUSTRIAL MACHINE SHOP FLOOR OPERATOR EYE CLOSURE AND YAWNING ANALYSIS AND |
| ID1411000 | CONTROL USING LANDMARK PREDICTOR |
| IPMH033 | SLEEPY BEHIND STUDIES - STUDENT DROWSINESS CONTROL USING LANDMARK PREDICTOR |
| ІРМН034 | STUDENT EYES CLOSURE AND YAWNING DETECTION FOR DROWSINESS ANALYSIS USING |
| IPMH035 | LANDMARK PREDICTOR EMOPLAYER - FEATURE EXTRACTOR APPROACH FOR EMOTION BASED MUSIC PLAYER |
| IPMH036 | MODIFIED CONVOLUTIONAL NEURAL NETWORK ARCHITECTURE ANALYSIS FOR FACIAL |
| 11 1411 1000 | EMOTION RECOGNITION |
| IPMH037 | ELDERLY ASSISTANT BASED ON FACE EMOTION AND POSTURE ANALYSIS |
| ІРМН038 | FACE FEATURE EXTRACTOR FOR EMOTION ANALYSIS AND BEHAVIOR ANALYSIS OF A |
| | PRISONER |
| IPMH039 | SOIL CLASSIFICATION USING MACHINE LEARNING METHODS AND CROP SUGGESTION |
| | BASED ON SOIL SERIES |
| ІРМН040 | CLUSTERS OF FEATURES USING COMPLEMENTARY INFORMATION APPLIED TO GENDER |
| | CLASSIFICATION |
| IPMH041 | FINGERPRINT IMAGE IDENTIFICATION FOR CRIME DETECTION |
| IPMH042 | |
| | RECOGNITION |
| IPMH043 | |
| | SURVEILLANCE |
| | RESTRICTED ZONE SIFT FEATURE EXTRACTOR FOR ATM SECURITY, HELMET DETECTION |
| IPMH045 | ACCELEROMETER-BASED HUMAN FALL DETECTION USING CONVOLUTIONAL NEURAL |
| IDN4110.40 | NETWORKS |
| ІРМН046 | A NOVEL CASCADE CLASSIFIER OF VEHICLE UNLOCKING SYSTEM BASED ON FACE |
| | RECOGNITION |

IOT PROJECT LIST 2023-2024

| | IOT PROJECT LIST 2023-2024 |
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| 1 | PERFECTLY KEYLESS - SECURE KEY MANAGEMENT WITH FUEL THEFT AND VEHICLE ANTI-THEFT |
| | ALERT |
| 2 | IOT BASED IRRIGATION SYSTEM WITH WITHOUT INTERNET AND PUMP SET CONTROL WITH STATUS |
| | NOTIFICATION |
| 3 | IOT - SMART SEATING MANAGEMENT IN PUBLIC BUS TRANSPORTATION USING IOT AND EMBEDDED |
| | SYSTEM |
| 4 | IOT - WEB LABORATORY- REMOTE VIRTUAL LAB ACCESS WITH GRAPH GENERATION. |
| 5 | IOT - CAMCORDER PIRACY - AADHAAR BASED ANTI-PIRACY SCREEN |
| 6 | IOT - CLCTO - CO-OPERATIVE LOGISTICS CARGO TRANSPORT OPTIMIZATION |
| 7 | RECOS – SMART SOCKET FOR ELECTRIC VEHICLE, WASHING MACHINE, GEYSER ENERGY CONTROL |
| 8 | SWACHH ABHIYAN - DOOR-TO-DOOR PICKUP OF HOUSEHOLD HAZARDOUS WASTE |
| 9 | IOT AND E GLOVE BASED NURSE CALLING SYSTEM |
| 10 | IOT – AWS BASED GNSS VIRTUAL TOLL E-TAXER |
| 11 | WEARABLE IOT - VIRTUAL PERIOD ATTENDANCE FOR INDUSTRIES AND COLLEGES |
| 12 | IOT - DESIGN AND DEVELOPMENT OF SYSTEM TO PREVENT THE CHAIN SNATCHING |
| 13 | IOT BASED MULTI-FUNCTION WAR ASSISTANCE ROBOT |
| 14 | IOT - NAVGUIDE - ELECTRIC AID FOR VISUALLY IMPAIRED PEOPLE |
| 15 | IOT - SOLEMATE - ELECTRONIC SHOES TO ASSIST VISUALLY CHALLENGED |
| 16 | IOT - MOBILITY ASSISTANCE TRAINER FOR VISUALLY IMPAIRED |
| 17 | IOT BASED MULTI FUNCTION WAR ASSISTANCE ROBOT |
| 18 | IOT BASED DELIVERY BOYS SAFETY CONTROL AND BIKE ANALYZER - HELMET |
| 19 | IOT_AIRPORT BAGGAGE CONVEYOR AND VOICE NOTIFICATION USING ANDROID TECHNOLOGY |
| 20 | IOT AYURVEDIC MEDICINE BEETEL LEAF VINE CULTIVATION USING IOT & WIRELESS SENSOR |
| | NETWORK |
| 21 | IOT AYURVEDIC MEDICINE TULSI, MINT, TURMERIC LAND FARMING WITH IOT & WIRELESS SENSOR |
| | NETWORK |
| 22 | IOT BASED SMART GEYSER AUTOMATION WRT ENVIRONMENT CONDITION TO SAVE ELECTRICITY |
| 23 | IOT BASED NOVEL LOW-COST SENSOR FOR HUMAN BITE FORCE MEASUREMENT |
| 24 | IOT - APARTMENT JAL SAMRUDHI WITH REAL TIME CLOUD SERVER |
| 25 | IOT-HIVE HOME AUTOMATION SYSTEM FOR INTRUSION DETECTION |
| 26 | IOT BASED REFRIGERATOR, STORAGE ROOM AND FMCG PRODUCTS STOCK MONITORING WITH |
| | EMAIL ALERT OF PURCHASE ORDER |
| 27 | IOT BASED SEMI-AUTOMATED RASH DRIVING DETECTION BY USING ACCELEROMETER SENSORS |
| 28 | IOT – WILDLIFE MONITORING, VIRTUAL FENCING WITH DEFORESTATION NOTIFICATIONS |
| 29 | IOT APPROACH TO ACCIDENT INTENSITY DETECTION, INTENSITY REPORTING USING CLOUD SERVER |
| 30 | IOT - EVIDENCE COLLECTION IN AUTOMOTIVE INDUSTRY FOR LEGAL CLAIM |
| 31 | IOT BASED AIR AND NOISE POLLUTION MONITORING IN URBAN AND RURAL AREAS, IMPORTANT |
| | ZONES |

32 IOT - WEARABLE DEVICE - YOGA AND EXERCISE STREAMER

| 33 | IOT - WEARABLE DEVICE - EXERCISE STREAMER, WITH CHILLIER JACKET |
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| 34 | IOT BASED GARBAGE AND STREET LIGHT MONITORING SYSTEM |
| 35 | IOT BASED MONITORING AND SMART PLANNING OF URBAN SOLID WASTE MANAGEMENT |
| 36 | IOT & ANDROID BASED ON-STREET AND OFF-STREET PARKING AVAILABILITY PREDICTION & SPACE |
| | RESERVATION |
| 37 | AGRIBOT - IOT BASED SOLAR POWERED AGRIBOT FOR IRRIGATION - THINGSPEAK |
| 38 | IOT V2I COMMUNICATION - RSU UNIT FOR PERSISTENT TRAFFIC MEASUREMENT |
| 39 | IOT - SAFE DRIVE - DANGEROUS DRIVING RECOGNITION OF DELIVERY BOYS WITH SPEED LIMITER |
| 40 | IOT - SAFE DRIVE - DANGEROUS DRIVING RECOGNITION OF DELIVERY BOYS |
| 41 | IOT – SMART URBAN DATA LOGGER – ENVIRONMENT AND GARBAGE |
| 42 | DISTRIBUTED STRATEGY FOR EMERGENCY AMBULANCE ROUTING WITH ANDROID |
| 43 | ER LOCK - INTELLIGENT ANTI-THEFT TRACKING AND ACCIDENT DETECTION SYSTEM FOR |
| | AUTOMOBILES BASED ON IOT |
| 44 | IOT-ELECTRICITY ENERGY UNIT LIMITS PER SQFT LAND - RESOURCE MANAGEMENT RESPONSIBILITY |
| | PER FAMILY |
| 45 | IOT BASED FLOOD CROP LOSS ASSESSMENT AND SMART SECURITY |
| 46 | IOT BASED DELIVERY BOYS SAFETY CONTROL AND BIKE RASH DRIVING ANALYZER |
| 47 | IOT-INDUSTRIAL BREATH EXHALE |
| | |

| | EMBEDDED PROJECT LIST 2023-2024 |
|----|--|
| 1 | REAL-TIME DRIVER ADVISORY MODEL - INTELLIGENT TRANSPORTATION SYSTEMS |
| 2 | ANDROID BASED VEHICLE ANTI-THEFT ALARM AND TRACKING SYSTEM |
| 3 | INTELLIGENT ACCIDENT DETECTION CLASSIFICATION USING MOBILE PHONES |
| 4 | ROBOCHEF – ANDROID BASED INGREDIENT MIXTURE FOR FOOD INDUSTRY |
| 5 | A HYBRID APPROACH FOR IDENTIFICATION OF MANHOLE AND STAIRCASE TO ASSIST VISUALLY |
| | CHALLENGED |
| 6 | INNOVATION STRATEGY AND BETTERMENT PLANNING FOR SMART VILLAGE |
| 7 | A NOVEL APPROACH TO PROVIDE PROTECTION FOR WOMEN BY USING SMART SECURITY DEVICE |
| 8 | MINE DETECTION ROBOT AND RELATED HUMANITARIAN TECHNOLOGY |
| 9 | AN INTELLIGENT TRANSPORTATION SYSTEM APPLICATION FOR SMARTPHONES BASED ON VEHICLE |
| | POSITION IN VEHICULAR NETWORKS |
| 10 | A NOVEL APPROACH ON CEILING FANS BASED ON MEMS TECHNOLOGIES TO AVOID SUICIDE |
| 11 | COOPERATIVE SENSING AND WEARABLE COMPUTING FOR SEQUENTIAL HAND GESTURE |
| | RECOGNITION |
| 12 | DESIGNING AND IMPLEMENTATION OF A WIRELESS GESTURE CONTROLLED ROBOT FOR DISABLED AND |
| | ELDERLY PEOPLE |
| 13 | RESCUE TIME - SPEECH RESPONSE FOR CHAIN SNATCHING VICTIM |
| 14 | GESTURE CONTROLLED WIRELESS AGRICULTURAL WEEDING ROBOT |
| 15 | ISMART CYCLIST JACKET |

| 16 | A BLOCKCHAIN -BASED WATER CONTROL SYSTEM FOR THE AUTOMATIC MANAGEMENT OF IRRIGATION COMMUNITIES |
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| 17 | DESIGN OF A MULTI SENSOR-BASED LOW-COST EDUCATIONAL ROBOT |
| 18 | DESIGN OF SMART HELMET FOR ACCIDENT AVOIDANCE |
| 19 | MULTIPLE UAVS-BASED SURVEILLANCE AND RECONNAISSANCE SYSTEM UTILIZING IOT PLATFORM |
| 20 | REMOTE HEALTH MONITORING OF ELDERLY THROUGH WEARABLE SENSORS |
| 21 | ZERO LABOUR - WET WASTE CRUSHER |
| 22 | AN APPROACH BASED ON A ROBOTICS OPERATION SYSTEM FOR THE IMPLEMENTATION OF INTEGRATED INTELLIGENT HOUSE SERVICES SYSTEM |
| 23 | TEMPERATURE SENSED OBSTACLE AVOIDING ROBOT |
| 24 | ROBOTIC FIRE DETECTOR, EXTINGUISHER, ANALYZER AND EMERGENCY ALERT |
| 25 | BLISTER TESTING IN DRUG INDUSTRY |
| 26 | EFFICIENCY IMPROVEMENT OF PHOTOVOLTAIC PANELS BY DESIGN IMPROVEMENT OF COOLING |
| | SYSTEM USING WATER COOLER |
| 27 | DRAINAGE CLEANING ROBOT |
| 28 | FARMER FRIENDLY SOLAR BASED VIRTUAL FENCING FOR RURAL AGRICULTURE WITH BATTERY |
| | REVERSE CHARGE PROTECTION |
| 29 | ANDROID BASED SIGN BOARD DETECTION WITH IMAGE & VOICE ALERT SYSTEM |
| 30 | APPLICATION OF RF TECHNOLOGY TO SOLVE TRAFFIC SIGNAL SCHEDULING BY MONITORING THE |
| | VEHICLE INTENSITY IN THE PARTICULAR ROAD |
| 31 | GESTURE AND SPEECH BASED WHEEL CHAIR CONTROL FOR PHYSICALLY CHALLENGED PERSON |
| | USING ANDROID BLUETOOTH TECHNOLOGY |
| 32 | SPEECH BASED WHEEL CHAIR CONTROL FOR PHYSICALLY CHALLENGED PERSON USING ANDROID |
| | BLUETOOTH TECHNOLOGY |
| 33 | AIRPORT ELECTRONIC PASSPORT SYSTEM AND TOLL COLLECTION SYSTEM USING RFID |
| • | TECHNOLOGY |
| 34 | CAN TEST ANALYZER FOR QUALITY TESTING IN AUTOMOBILE PRODUCTION PLANT WITH AUTHORIZED REPORT GENERATION |
| 35 | REMOTE MONITORING OF CAR ENGINE USING CAN AND ZIGBEE PROTOCOLS AN APPLICATION OF |
| | WIRELESS DATA ACQUISITION |
| 36 | AUTOMATIC CONTROL OF STUDENTS ATTENDANCE IN CLASSROOMS USING RFID BASED ON SMS |
| 07 | REQUEST |
| 37 | SIMPLE RADAR SYSTEM WITH BORDER SECURITY SYSTEM |
| 38 | WIRELESS TRANSFORMER PARAMETER MEASUREMENT AND PROTECTION |
| 39 | EARTHQUAKE DISASTER RESCUE ROBOT |
| 40 | BLUETOOTH EMBEDDED ROBOTIC AGRICULTURE PLOWING, SEEDING AND GRASS CUTTING POWERED BY SOLAR ENERGY |
| 41 | BT EMBEDDED ROBOTIC LAWN MOVER POWERED BY SOLAR ENERGY |
| 42 | SEED SOWING PLOWING AND WASTE GRASS CUTTING ROBOT WITH ANDROID APPLICATION |
| 43 | FLEX & ACCELERATION USED HAND GESTURE CONTROL OF ROBOT WITH MP3 VOICE OUTPUT |
| 44 | HAND GESTURE BASED ROBOT CONTROL WITH PICK AND PLACE OPERATION USING |
| | |

| | ACCELEROMETER |
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| 45 | A REVIEW ON INDUSTRIAL AUTOMATION BY RADIO FREQUENCY BASED WIRELESS REMOTE |
| | CONTROLLER USING RENESAS RL78 |
| 46 | DESIGN AND CONSTRUCTION OF MICROCONTROLLER BASED WIRELESS REMOTE CONTROLLED |
| | INDUSTRIAL ELECTRICAL APPLIANCES USING ZIGBEE TECHNOLOGY |
| 47 | INTELLIGENT REMOTELY DEVICE CONTROLLED SYSTEM FOR INDUSTRIAL ELECTRICAL APPLIANCES |
| | THROUGH ZIGBEE WIRELESS NETWORKS |
| 48 | ANDROID - ELECTRONIC STICK AND ANDROID SMARTPHONES TO THE AID OF BLINDLY DISABLED |
| | INDIVIDUALS |
| 49 | EMBED - ELECTRONIC STICK FOR VISION CONTROL OF PRE-DEFINED AREA WITH FN-M16P |
| | MODULE VOICE ALERT |
| 50 | ACCESSIBLE ELECTRONIC INTERACTION FOR PEOPLE WITH PARTIAL PARALYSIS |
| 51 | HEAD MOVEMENT BASED WIRELESS COMMUNICATION WITH SPEECH ALERT FOR PARALYZED |
| | PERSON |
| 52 | CONVERYOR SYSTEM AUTOMATED RESTAURANT MANAGEMENT SYSTEM |
| 53 | ROBOTIC AUTOMATED FOOD SERVICE PROVIDER IS HOTEL WITH ANDROID BASED INDIVIDUAL |
| E A | MENU SYSTEM |
| 54 55 | EVIDENCE COLLECTION IN AUTOMOTIVE INDUSTRY FOR LEGAL CLAIM IMPLEMENTING INTELLIGENT TRAFFIC CONTROL SYSTEM FOR CONGESTION CONTROL, |
| 99 | AMBULANCE CLEARANCE, AND STOLEN VEHICLE DETECTION |
| 56 | INTEGRATED AND AUTOMATED VEHICLE BAY ARRANGEMENT SYSTEM TO AVOID CONGESTION IN |
| | A PUBLIC PARKING AREA |
| 57 | DEMAND SIDE LOAD MANAGEMENT OF SMART GRIDS USING INTELLIGENT TRADING METERING |
| | BILLING |
| 58 | REAL TIME AUTOMATION IN PADDY FIELD WITH SECURITY |
| 59 | ANDROID - DESIGN OF AN INTELLIGENT COMBAT ROBOT FOR WAR FIELD |
| 60 | CUSTOMIZED WIRELESS SENSOR NODE TO DETECT HAZARDOUS GAS PIPELINE LEAKAGE |
| 61 | AUTOMATED BOOK PICKING ROBOT FOR LIBRARIES |
| 62 | AN AUTOMATIC EMBEDDED TOLL PLAZA WITH DOCUMENT VERIFICATION AND SPEED DETECTION |
| | SYSTEM |
| 63 | CO-OPERATIVE ADAPTIVE CRUISE CONTROL (CACC) BASED ON CAN PROTOCOL USING |
| 0.4 | MICROCHIP |
| 64 | AADHAR CARD BASED BIOMETRICS ELECTRONIC VOTING SYSTEM WITH EMBEDDED SECURITY |
| GE | ALONG WITH REMOTE ACCESS |
| 65 66 | OPERATION THEATRE AUTOMATION & CONTROL (OTAC) NICU MONITORING |
| 67 | GSM BASED INDUSTRIAL DISASTER INTIMATION CONTROL SYSTEM (GIDICS) |
| 68 | ATTITUDE AND HEADING REFERENCE (AHRS) SYSTEM FOR AEROSPACE APPLICATION |
| 69 | E GLOVE- PALM AND FINGERPRINT SENSOR GESTURE BASED FOR PICK AND PLACE REMOTELY |
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| 102 | PEDESTRIANS SAFETY, ANTI ACCELERATION AND IMAGE INDICATION OF HIGHWAY SIGN BOARD WITH |
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| 109 | AIRPORT BAGGAGE CONVEYOR AND VOICE NOTIFICATION USING ANDROID TECHNOLOGY |
| 110 | VEHICLE CONTROL FOR PEDESTRIANS SAFETY USING CAN PROTOCOL FOR IMPLEMENTING THE |
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| 117 | ANY TIME MEDICINE |
| 118 | ELDERLY PERSON ACTIVITY TRACKING APPLICATION USING ANDROID SMARTPHONE |
| 119 | DESIGN AND DEVELOPMENT OF OBJECT RECOGNITION AND SORTING ROBOT FOR MATERIAL |
| | HANDLING IN PACKAGING AND LOGISTIC INDUSTRIES |
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| 121 | REMOTE MONITORING AND CONTROLLING OF ELECTRICAL DEVICES WITH AUTOMATIC ACTIVE |
| 100 | PHASE SELECTOR |
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| | MANAGEMENT |
|-----|---|
| 125 | GARBAGE AND STREET LIGHT MONITORING SYSTEM WITH AUTOMATIC DOOR MECHANISM |
| 126 | ANDROID BASED ON-STREET AND OFF-STREET PARKING AVAILABILITY PREDICTION & SPACE |
| | RESERVATION |
| 127 | SMART PARKING FOR COLLEGE USING RFID TECHNOLOGY |
| 128 | ANDROID - IMPLEMENTATION OF SMART CITY MANAGEMENT SYSTEM WITH SPEECH ALERT |
| 129 | SMART CITY AND MANAGEMENT - PARKING, DISASTER, WASTE MANAGEMENT |
| 130 | SMART CITY MANAGEMENT - TRAFFIC SYSTEM, AMBULANCE & STREET LIGHT |
| 131 | DESIGN & IMPLEMENTATION OF SMART CITY USING CONTROLLED AREA NETWORK PROTOCOL FOR |
| | CONTROLLING PURPOSE |
| 132 | CAN BASED CONTROL UNIT FOR A NOVEL RECONFIGURABLE MICROGRID ARCHITECTURE WITH |
| | RENEWABLE ENERGY SOURCES |
| 133 | POT HOLE DETECTION SENSOR ROBOT NOTIFYING ITS LOCATION TO THE LOCAL AUTHORITY VIA |
| | ANDROID |
| 134 | PROTOTYPE DEVELOPMENT OF MONITORING SYSTEM IN PATIENT INFUSION WITH WIRELESS |
| | SENSOR NETWORK |
| 135 | CAMPUS NAVIGATOR WITH SPEECH ASSISTANCE |
| 136 | ANT SMUGGLING SYSTEM FOR TREES IN FOREST WITH SOLAR POWER GENERATION |
| 137 | ANDROID RAPID ENTIRE BODY POSTURAL ANALYSIS ASSESSMENT DEVICE FOR COMPUTER |
| | OPERATORS |
| 138 | AMBUBOT - ROBOTIC AUTOMATED EXTERNAL DEFIBRILLATOR AMBULANCE FOR EMERGENCY |
| | MEDICAL SERVICE IN SMART CITIES |
| 139 | MULTIPURPOSE AMBUBOT WITH DISASTER AND FIRE EXTINGUISH MANAGEMENT |
| 140 | GPS BASED VEHICLE TOLL COLLECTION SYSTEM |
| 141 | ALTERNATE ENERGY FROM BUSY ROAD FOR DEVELOPMENT OF SMART CITY - THERMAL & PIEZO |
| 142 | ANDROID BASED DEADLY SCHOOL VAN MONITORING SYSTEM WITH SPEECH ALERT |
| 143 | ANDROID - DESIGN AND IMPLEMENTATION OF AUTOMATED BLOOD BANK USING EMBEDDED |
| | SYSTEMS |

| Al | IEEE LATEST PROJECTS ON IOT WITH MACHINE LEARNING |
|--------|---|
| IAI001 | FABRICATION OF AGRIBOT WITH CROP PREDICTION USING MACHINE LEARNING |
| IAI002 | DESIGNING OF AN AUTOMATED SYSTEM FOR IDENTIFICATION AND RECKONING OF |
| | LIVESTOCK |
| IA1003 | MULTIAGENT ARCHITECTURE FOR BRIDGE CAPACITY MEASUREMENT SYSTEM USING WIRELESS |
| | SENSOR NETWORK AND WEIGHT IN MOTION |
| IAI004 | ANALYSIS AND PREDICTION OF AIR QUALITY MONITORING SYSTEM USING MACHINE LEARNING |
| IAI005 | INFANT CARE ASSISTANT USING MACHINE LEARNING, AUDIO PROCESSING IMAGE |
| | PROCESSING, AND IOT SENSOR NETWORK |
| IA1006 | AN INTERNET OF THINGS (IOT) BASED SMART WASTE MANAGEMENT AND MONITORING |
| | SYSTEM |

| IAI007 | A WIRELESS SENSOR NETWORK BASED LOW COST AND ENERGY EFFICIENT FRAME WORK FOR |
|--------|--|
| | PRECISION AGRICULTURE |
| 800IAI | IOT BASED TRAFFIC SIGN DETECTION AND VIOLATION CONTROL |
| IAI009 | FABRICATION OF AGRIBOT WITH GREEN LEAF DISEASE DETECTION SYSTEM |
| IA1010 | EFFICIENT CROP YIELD PREDICTION SYSTEM USING MACHINELEARNING |
| IAI011 | RTOSURVAILANCESYSTEMWITHINTELLIGENTAMBULANCEDETECTIONANDBLINDSPOT TRAFFIC |
| | LIGHTDETECTION |
| IAI012 | AN INTERNET OF THINGS (IOT) BASED SMART CITYMANAGEMENT |
| IAI013 | THEPROSPECTIVITYOFBIOSENSINGINENVIRONMENTALMONITORINGFORBIOSECURITY |
| IAI014 | IDENTIFICATION AND RECKONING OF LIVESTOCK FOR CATTLE FARMING USINGIOT |
| IAI015 | AUTOMATEDSURVEILLANCEROBOTFORHIGHALTITUDEREGIONS |
| IAI016 | IMAGEPROCESSINGBASEDPOTHOLEDETECTINGSYSTEMFORDRIVINGENVIRONMENT |
| IAI017 | HEARTDISEASEPREDICTIONUSINGIOTANDMLBASEDHEALTHMONITORINGSYSTEM |
| 1A1018 | MONITORING AND MAINTENANCE OF HIGHWAY BRIDGES USING WIRELESS SENSOR NETWORKS |
| IAI019 | MYRIOBASEDMOBILEROBOTFORRESCUECOMPETITIONS |
| IAI020 | BIOMETRIC BASED SECURED REMOTE ELECTRONIC VOTINGSYSTEM |
| IAI021 | INTERNETOFTHINGS (IOT) FORBANKLOCKERSECURITYSYSTEM |
| IAI022 | 24X7 SMART IOT BASED INTEGRATED HOME SECURITYSYSTEM |

| DP | IEEE LATEST DEEP LEARNING BASED PROJECTTITLES |
|--------|---|
| IDP001 | AN INTERNET OF THINGS BASED SMART WASTE MANAGEMENT SYSTEM USING LORA AND |
| | TENSORFLOW DEEP LEARNING MODEL |
| IDP002 | TENSORFLOW DEEP LEARNING MODEL AND IOT DRIVEN SMART CITY PROTOTYPE WITH LORA |
| IDP003 | A NEW IOT GATEWAY FOR ARTIFICIAL INTELLIGENCE IN AGRICULTURE |
| IDP004 | DRIVER INATTENTION MONITORING SYSTEM BASED ON THE ORIENTATION OF THE FACE USING |
| | CONVOLUTIONAL NEURAL NETWORK |
| IDP005 | REVERSE DISPENSING MACHINE USING DEEP LEARNING |
| IDP006 | DEEP LEARNING BASED ROBOT FOR AUTOMATICALLY PICKING UP GARBAGE |
| IDP007 | AI BASED VOICE ASSISTANT SYSTEM FOR VISUALLY IMPAIRED PERSON |
| IDP008 | REAL TIME FACE RECOGNITION USING CONVOLUTIONAL NEURAL NETWORK |
| IDP009 | ARTIFICIAL INTELLIGENCE AND AUGMENTED REALITY DRIVEN HOME AUTOMATION |
| IDP010 | CONVOLUTIONAL NEURAL NETWORK BASED WORKING MODEL OF SELF DRIVING CAR - A STUDY |
| IDP011 | DEEP LEARNING BASED SMART GARBAGE CLASSIFIER FOR EFFECTIVE WASTE MANAGEMENT |
| IDP012 | AI BASED PILOT SYSTEM |
| IDP013 | CONVOLUTIONAL NEURAL NETWORK IOT BASED TRAFFIC SIGN DETECTION AND VIOLATION |
| | CONTROL |
| ML | IEEE LATEST MACHINE LEARNING BASED PROJECTTITLES |
| IML001 | CLOUD BASED FACE AND SPEECH RECOGNITION FOR ACCESS CONTROL APPLICATIONS |

| IML002 | AUTOMATED EVALUATION OF COVID-19 RISK FACTORS COUPLED WITH REAL-TIME, | | | | |
|--------|---|--|--|--|--|
| | INDOOR,PERSONAL LOCALIZATION DATAFOR POTENTIAL DISEASE IDENTIFICATION | | | | |
| | ,PREVENTION AND FACE MASK DETECTION | | | | |
| IML003 | DEVELOPMENT OF A HAND HELD DEVICE FOR AUTOMATIC LICENSE PLATE RECOGNITION | | | | |
| IML004 | RASPBERRY PI BASED WEARABLE READER FOR VISUALLY IMPAIRED PEOPLE WITH HAPTIC | | | | |
| | FEEDBACK | | | | |
| IML005 | READER AND OBJECT DETECTOR FOR BLIND | | | | |
| IML006 | LOW - COST VISUALLY SERVOED TRACKED VEHICLE | | | | |
| IML007 | DEVELOPMENT OF MULTI SECURE ACCESS - SMART SUITCASE SECURITY SYSTEM | | | | |
| IML008 | FIRE ALARM SYSTEM FOR SMART CITIES USING EDGE COMPUTING | | | | |
| IML009 | SMART DOOR UNLOCKING USING FACE RECOGNITION AND BLINK DETECTION | | | | |
| IML010 | A WEARABLE, EEG - BASED MASSAGE HEADBAND FOR ANXIETY ALLEVIATION | | | | |
| IML011 | VOICE CONTROLLED HOME AUTOMATION USING RASPBERRY PI | | | | |
| IML012 | BIOMETRIC SYSTEM BASED ELECTRONIC VOTING MACHINE USING RASPBERRY PI | | | | |
| IML013 | RASPBERRY PI BASED GLOBAL INDUSTRIAL PROCESS MONITORING THROUGH WIRELESS | | | | |
| | COMMUNICATION | | | | |
| IML014 | SMART ROOMS FOR POWER SAVING USING VIDEO PROCESSING | | | | |
| IML015 | RASPBERRY PI BASED VIDEO SURVEILLANCE SYSTEM FOR ADVANCE SECURITY | | | | |
| IML016 | A NOVEL APPROACH FOR COMMUNICATION AMONG BLIND , DEAF AND DUMB PEOPLE | | | | |
| IML017 | DETECTION OF VEHICLE MAXIMUM SPEED WITH AN INFRARED SENSOR BASED ON RASPBERRY | | | | |
| | PI 3 B+ | | | | |
| IML018 | A LOW COST WEB BASED REMOTE MONITORING SYSTEM WITH BUILT IN SECURITY FEATURE | | | | |
| | FOR VULNERABLE ENVIRONMENT | | | | |
| IML019 | SIXTH SENSE DEVICE - RASPBERRY PI BASED GESTURAL INTERFACE | | | | |
| IML020 | RASPBERRY PI BASED CRUISE CONTROL MECHANISM IN TRAFFIC SITUATION | | | | |

VLSI 2023-2024

We segregate the VLSI projects by the following project genres:

- Back End Domains
- Front End Domains
- Tools

Back End Domains

The back-end domains in VLSI projects for final year correspond to the activities that aim to physically deploy the design that was earlier founded to sort any encountered problem or issue. It is here where several required hardware is

gathered and assembled. Some of the back-end domains-based project subgenres are discussed below.

- Transistor Logic
- Lower Power VLSI
- Core Memories

Front End Domains

The front-end domains in VLSI projects for final year correspond to the activities that aim to find a solution for any encountered problem or issue. An improvised circuitry design is made as a solution to sort out any encountered issues in VLSI so that the outcome of the resultant IC is resistant to those already investigated issues. Some of the front-end domains-based project sub-genres are discussed below.

- Arithmetic Core
- Communications
- Testing
- Finite State Machines
- DSP Core
- Nano Technology

Tools

The tools used in the design of any VLSI are usually decided based on future utilization and the required outcome. Some of the tools used in VLSI projects for final year ECE are given below.

- H-Spice
- FPGA
- Xilinx Vivado
- Tanner EDA
- Cadence EDA
- QCA

- Xilinx ISE
- LT-Spice

Our VLSI project experts can implement and deliver VLSI projects from inception to simulation. We have an extensive VLSI project library for all ECE courses which guides students to choose VLSI oriented final year ECE projects.

| S.NO | VLSI PROJECT TITLES 2023-2024 | DOMAIN |
|-----------|--|-----------------|
| TVMAFE493 | A HIGHLY SECURE FPGA-BASED DUAL-HIDING ASYNCHRONOUS-LOGIC AES ACCELERATOR AGAINST SIDE-CHANNEL ATTACKS Objective: The main objective of this paper is to secure the data from side channel attacks by utilizing the Async-logic AES with less area and low energy. The dual rail hiding is used in vertical SCA and ZV compensated S-box are employed to hide the horizontal SCA. | COMMUNICATION |
| TVMAFE494 | AN OPTIMIZED M-TERM KARATSUBA-LIKE BINARY POLYNOMIAL MULTIPLIER FOR FINITE FIELD ARITHMETIC Objective: The main aim of the project is to reduce the area complexity of multiplier over the delay. This will be applicable when the design needs finite number of inputs and outputs in operation. | ARITHMETIC CORE |
| TVMAFE495 | A NOVEL ULTRA-COMPACT FPGA-COMPATIBLE TRNG ARCHITECTURE EXPLOITING LATCHED RING OSCILLATORS Objective: The main aim of this paper is to generate the true random numbers with less FPGA resources. It will be applicable when we introduce the LRO (Latched Ring Oscillators). The randomness and Metastability reduction are the added advantages. | COMMUNICATION |
| TVMAFE496 | A HIGH-THROUGHPUT VLSI ARCHITECTURE DESIGN OF CANONICAL HUFFMAN ENCODER Objective: The idea of this paper is to reduce the time complexity over the existing standard Huffman encoder. This will be achieved using the splitting tree technique. High compression radio is added advantage of CHN. | COMMUNICATION |
| TVMAFE497 | TROT: A THREE-EDGE RING OSCILLATOR BASED TRUE RANDOM NUMBER GENERATOR WITH TIME-TO-DIGITAL CONVERSION Objective: The main aim of this paper is to generate the true random numbers through 3 edge ring oscillators to increase the hardware security as well as increase the randomness of the output. | COMMUNICATION |

| TVMAFE489 | A LOW-POWER AND HIGH-ACCURACY APPROXIMATE MULTIPLIER WITH RECONFIGURABLE TRUNCATION Objective: The main objective of this project is to design an approximate multiplier with high accuracy and dynamically truncate to maintain the required accuracy as per the user and to obtain power optimization. | DIP |
|-----------|--|------------------|
| TVMABE173 | DESIGN OF THREE STAGE DYNAMIC COMPARATOR WITH TAIL TRANSISTOR USING 20NM FINFET TECHNOLOGY FOR ADCS Objective: The proposed design of Modified three-stage comparator by using the tail transistor has been implemented to achieve the lower leakage power consumption and reducing the short channel effects. | TRANSISTOR LOGIC |
| TVMABE179 | A RELIABLE LOW STANDBY POWER 10T SRAM CELL WITH EXPANDED STATIC NOISE MARGINS Objective: The main objective of this paper is to implement LP10TSRAM in order to achieve lesser power dissipation. | CORE MEMORIES |
| TVMABE181 | COMPOWER 3-BIT ENCODER DESIGN USING MEMRISTOR Objective: In this paper, 3-bit encoder using memristors is proposed. And this architecture is compared with 3-bit encoder using CMOS and PSEUDO NMOS Logic. | CORE MEMORIES |
| TVMABE182 | TWO-STAGE OTA WITH ALL SUBTHRESHOLD MOSFETS AND OPTIMUM GBW TO DC-CURRENT RATIO Objective: In this paper, a two stage folded cascaded Operational Trans conductance Amplifier (OTA) is proposed. This Amplifier is operated under sub-threshold values of MOSFETS. This configuration of Amplifier reduces power consumption. | TRANSISTOR LOGIC |
| TVMABE115 | A THREE-STAGE COMPARATOR AND ITS MODIFIED VERSION WITH FAST SPEED AND LOW KICKBACK Objective: This paper presents a three-stage comparator and its modified version to improve the speed and reduce the kickback noise. Compared to the traditional two-stage comparators, the three-stage comparator in this work has an extra amplification stage, which enlarges the voltage gain and increases the speed. | TRANSISTOR LOGIC |
| TVMABEI18 | BTI AND SOFT-ERROR TOLERANT VOLTAGE BOOTSTRAPPED SCHMITT TRIGGER CIRCUIT Objective: In this paper, a novel BTI resilient voltage bootstrapped Schmitt trigger (VB-ST) circuit with improved noise margin, leakage power and rail-to-rail voltage is proposed. An only NMOS transistor is used in the proposed VB-ST circuit, which helps to reduce the aging effect, especially | TRANSISTOR LOGIC |

| | Negative Bias Temperature Instability (NBTI) on the circuit. | |
|-----------|--|------------------|
| TVMABE119 | DESIGN OF TWO STAGE OPERATIONAL AMPLIFIER AND IMPLEMENTATION OF FLASH ADC Objective: The aim of this paper is to implement a Flash ADC structure consists of a resistive ladder network, comparators, and the thermometer to a binary encoder. Encoder structure in this paper is implemented using 2:1 mux based on switch logic. | TRANSISTOR LOGIC |
| TVPGBE136 | LOW POWER, HIGH PERFORMANCE PMOS BIASED SENSE AMPLIFIER Objective: In this paper, two proposed circuits of PMOS biased sense amplifier is implemented. A fast access time and low power dissipation are achieved with newly developed circuits of sense amplifier for low voltage supply. | LOW POWER |
| TVMABE112 | A LOW-POWER TIMING-ERROR-TOLERANT CIRCUIT BY CONTROLLING A CLOCK Objective: In this project, clock-controlling technique in flip-flops to prevent timing errors is presented. Timing errors are detected and corrected by modifying the clock of flip-flop without changing the system clock with minimum logics. | LOW POWER |
| TVMABE121 | LOW-POWER RETENTIVE TRUE SINGLE-PHASE-CLOCKED FLIP-FLOP WITH REDUNDANT-PRECHARGE-FREE OPERATION Objective: In this project, an energy-efficient retentive True Single-Phase-Clocked (TSPC) FF is proposed. With the employment of input-aware pre charge scheme, the proposed TSPC FF pre charge only when necessary. By adopting this technique, power consumption is minimized. | LOW POWER |
| TVPGBE121 | A VERY-LOW-VOLTAGE FREQUENCY DIVIDER IN FOLDED MOS CURRENT MODE LOGIC WITH COMPLEMENTARY N- AND P-TYPE FLIP-FLOPS Objective: In this article, a static frequency divider based on Folded MOS Current Mode Logic (FMCML) is presented. The design is based on alternating FMCML flip-flops with complementary pMOS or nMOS input differential pairs since common-mode problems arise by using only one type of FMCML flip-flops. | TRANSISTOR LOGIC |
| TVPGBE122 | ACCURACY-CONFIGURABLE RADIX-4 ADDER WITH A DYNAMIC OUTPUT MODIFICATION SCHEME Objective: In this project, Accuracy Configurable Radix-4 Adder with a Dynamic Output Modification Scheme is proposed. Approximate computing is an efficient approach for reducing computational costs. This method involves a trade-off between | TRANSISTOR LOGIC |

| | computational accuracy and the circuit's power consumption, | |
|-----------|--|------------------|
| | delay, and area | |
| TVMABE130 | 132NM 2006 2007 2008 2008 2008 2008 2008 2008 2008 | LOW POWER VLSI |
| TVMABE133 | NOVEL MEMRISTOR-BASED NONVOLATILE D LATCH AND FLIP- | |
| | FLOP DESIGNS Objective: The main objective of this paper is to develop the Latch and Flip flop using Memristor by that we can reduce the power consumption. | CORE MEMORIES |
| TVMATO860 | NOVEL TERNARY ADDER AND MULTIPLIER DESIGNS WITHOUT | |
| | USING DECODERS OR ENCODERS Objective: The main objective of this project is implementing the THA(Ternary half adder) & TMUL(Ternary multiplier) without using any ternary decoders, basic logic gates, or encoders to minimize the number of used transistors and improve the energy efficiency. | TRANSISTOR LOGIC |
| TVMABE122 | PERFORMANCE ANALYSIS OF FULL ADDER BASED ON DOMINO | |
| | COMPLET IN COMPLET Objective: The main objective of this paper is to reduce the delay by using Domino logic in the full adder. | TRANSISTOR LOGIC |
| TVMABE60 | 45NM CMOS 4-BIT FLASH ANALOG TO DIGITAL CONVERTER | |
| | Objective: The main objective of this paper is to reduce the power in ADC. The design of ADC describes an effective method to reduce area and power consumption. | LOW POWER VLSI |
| TVMABE72 | ANTI-PVT-VARIATION LOW-POWER TIME-TO-DIGITAL | |
| | CONVERTER DESIGN USING 90-NM CMOS PROCESS Objective: The major contribution of this work is the self-adjustment capability provided by the PVT detector and these codes are used to select the corresponding current-sinking path to reduce delay drift and achieve anti-PVT-variation performance. | TRANSISTOR LOGIC |
| TVMABE56 | ENERGY AND ERROR ANALYSIS FRAMEWORK FOR APPROXIMATE | |
| | COMPUTING IN MOBILE APPLICATIONS Objective: In this proposed work, three novel energy, delay and area-efficient full-swing hybrid CMOS adders were designed. The proposed adders are named approximate hybrid adders (AHA1, AHA2, AHA3), with a numeral at the end for the different designs. | TRANSISTOR LOGIC |

| TVMABE65 | VERY FAST, HIGH-PERFORMANCE 5-2 AND 7-2 COMPRESSORS IN CMOS PROCESS FOR RAPID PARALLEL ACCUMULATIONS Objective: This paper presents the new design methodology for speed performance enhancement of 7 - 2 & 5-2 compressor structures. The compressor circuits are used in multipliers. Through this architecture, the delay will be less. | TRANSISTOR LOGIC |
|-------------|---|------------------|
| TVMABE174 | DESIGN OF HALF ADDER DOMINO CIRCUIT USING SLEEP AND | |
| | TWIST-CONNECTED TRANSISTORS WITH DUAL KEEPER | |
| | Objective: In this paper, two circuits, namely Half Adder with twist-connected transistors based NOT (T-NOT) gate and Sleep | LOW DOWED |
| | Transistor (HTS) and Half Adder with T-NOT, Sleep Transistor, and | LOW POWER |
| | Dual Keeper (HTSD) are presented, in order to achieve low power | |
| | consumption and high speed. | |
| TVMABE175 | DESIGN AND OPTIMIZATION OF MIMO FILTER USING CURRENT | |
| | CONVEYOR | |
| | Objective: In this project we are going to implement the circuit | TRANSISTOR LOGIC |
| | functions represent low pass filter (LPF), high pass filter (HPF) | |
| | and band pass filter (BPF) function while taking different input | |
| TVMABE181 | and output port combinations. LOW POWER 3-BIT ENCODER DESIGN USING MEMRISTOR | |
| IVIVIABEIOI | Objective: In this paper, 3-bit encoder using memristors is | |
| | proposed. And this architecture is also compared with 3-bit | CORE MEMORIES |
| | encoder using CMOS and PSEUDO NMOS Logic. | |
| TVMABE182 | TWO-STAGE OTA WITH ALL SUBTHRESHOLD MOSFETS AND | |
| | OPTIMUM GBW TO DC-CURRENT RATIO | |
| | Objective: In this paper, a two stage folded cascaded | TRANSISTOR LOGIC |
| | Operational Trans conductance Amplifier (OTA) is proposed. This Amplifier is operated under sub-threshold values of | TRANSISTOR LOGIC |
| | MOSFETS. This configuration of Amplifier reduces power | |
| | consumption. | |
| TVPGBE70 | DOUBLE CURRENT LIMITER HIGH-PERFORMANCE VOLTAGE-LEVEL | |
| | SHIFTER FOR IOT APPLICATIONS | |
| | Objective: The main objective of this work is to reduce power for | LOW POWER |
| | Voltage level shifter. The proposed Current limiter circuit is | |
| | designed using 130nm CMOS technology to perform the voltage level shifting from 0.15V to 1.25V. | |
| TVMABE50 | A LOW-POWER HIGH-SPEED SENSE-AMPLIFIER-BASED FLIP-FLOP | |
| TUMABLOS | IN 55 NM MTCMOS | |
| | Objective: The main objective of this work is to reduce the power | LOW DOWED |
| | and to increase the speed of the sense amplifier and the latch | LOW POWER |
| | was designed with a glitch-free and contention-free. Thus, | |
| | proposed SAFF is a good choice for replacing master-slave flip- | |
| | | |

| | flop in digital systems. | |
|-----------|--|------------------|
| TVPGBE81 | DATA RETENTION BASED LOW LEAKAGE POWER TCAM FOR NETWORK PACKET ROUTING Objective: The main objective of this paper is to reduce the leakage power for data retention based ternary content addressable memory and it can be reduced by using the continuous feature of mask data. | CORE MEMORIES |
| TVMABEI13 | A NEW ENERGY-EFFICIENT AND HIGH THROUGHPUT TWO-PHASE MULTI-BIT PER CYCLE RING OSCILLATOR-BASED TRUE RANDOM NUMBER GENERATOR Objective: In this project, new lightweight TRNG design is proposed to minimize the power wasted by the superfluous oscillations. Random bits are extracted from both phases of the slow ROs to increase the throughput and the fast RO is activated only during the narrow transition time difference between two symmetrically designed slow ROs. | TRANSISTOR LOGIC |
| TVMABE123 | RAPID LOW POWER VOLTAGE LEVEL SHIFTER UTILIZING REGULATED CROSS COUPLED PULL UP NETWORK Objective: In this project, ultralow power and high-speed voltage Level shifter circuit is introduced. With the help of regulated cross-coupled structure in the pull up region, the power utilized by the circuit is considerably decreased and speed of the circuit is also increased. | LOW POWER |
| TVMABE124 | TIQ FLASH ADC WITH THRESHOLD COMPENSATION Objective: In this paper, a threshold self-tune technique is utilized to stabilize the inverter threshold voltage against process and temperature deviations aiming in reduction of the sensitivity of TIQ comparator towards temperature variations. In this self-tuning topology, a DC feedback loop is utilized for self-correcting the inverter threshold voltage. | TRANSISTOR LOGIC |
| TVMAFE381 | DESIGN OF ULTRA-LOW POWER CONSUMPTION APPROXIMATE 4- 2 COMPRESSORS BASED ON THE COMPENSATION CHARACTERISTIC Objective: The main objective of this paper is to optimize area and power by implementing the approximate 4:2 compressor designs which can be used to design the multiplier along with ECM based on the compensation characteristics. | DIP |
| TVMAFE376 | DS2B: DYNAMIC AND SECURE SUBSTITUTION BOX FOR EFFICIENT SPEECH ENCRYPTION ENGINE Objective: The main objective of this paper is to achieve the high throughput and security with Dynamic and secure | DSP |

| | substitution-box that possess high resistance against linear | |
|---------------------|--|-------------------|
| | attack and differential attack which is to be used in a speech | |
| | encryption application was realized on FPGA. | |
| TVMAFE111 | HIGH-SPEED AREA-EFFICIENT VLSI ARCHITECTURE OF THREE- | |
| | OPERAND BINARY ADDER | |
| | Objective: In this paper, a high-speed area-efficient adder | ARITHMETIC CORE |
| | technique is proposed to perform the three operands binary | AKITTIWILTIC COKE |
| | addition for efficient computation of modular arithmetic used in | |
| | cryptography and PRBG applications. | |
| TVMAFE396 | APPROXIMATE PRUNED AND TRUNCATED HAAR DISCRETE | |
| | WAVELET TRANSFORM VLSI HARDWARE FOR ENERGY-EFFICIENT | |
| | ECG SIGNAL PROCESSING | |
| | Objective: The main objective of this paper is to reduce the area | DSP |
| | and delay, for this we are implementing the approximate HAAR | |
| | discrete wavelet, approximate pruned HDWT which fulfills the R- | |
| | peak ECG signal processing with high quality standard. | |
| TVPGFE310 | VIRTEX 7 FPGA IMPLEMENTATION OF 256 BIT KEY AES ALGORITHM | |
| | WITH KEY SCHEDULE AND SUB BYTES BLOCK OPTIMIZATION | |
| | Objective: The main objective of this paper is to improve the | COMMUNICATIONS |
| | security by extending the cipher key size into 256-bit key AES | |
| T) () 4 A F F O T O | algorithm and applied selective transformation for optimization. | |
| TVMAFE379 | DESIGN AND ANALYSIS OF APPROXIMATE COMPRESSORS FOR | |
| | BALANCED ERROR ACCUMULATION IN MAC OPERATOR Objective: The main objective of this paper is to reducing the | ARITHMETIC CORE |
| | Objective: The main objective of this paper is to reducing the energy consumption and to minimize the hardware costs of | ARITHMETIC CORE |
| | MAC-oriented signal processing algorithms. | |
| TVMAFE383 | FAST BINARY COUNTERS AND COMPRESSORS GENERATED BY | |
| I VIVIAI EGGG | SORTING NETWORK | |
| | Objective: The main objective of this paper is to implement fast | |
| | saturated binary counters based on sorting network to improve | ARITHMETIC CORE |
| | the efficiency of designs involving summation of multiple | |
| | operands. | |
| TVPGFE102 | RANDSHIFT: AN ENERGY-EFFICIENT FAULT-TOLERANT METHOD IN | |
| | SECURE NON VOLATILE MAIN MEMORY | |
| | Objective: The main objective of this paper is to reduce the error | |
| | rate and power in encrypted data encoded by the Advanced | COMMUNICATIONS |
| | Encryption Standard. This paper is implemented with the | |
| | randomness feature of AES encryption as well as rotational shift | |
| | operation to tolerate hard faults in nonvolatile memory cells. | |
| TVMAFE115 | APPROXIMATE MULTIPLIER DESIGN USING NOVEL DUAL-STAGE 4:2 | |
| | | |
| | COMPRESSORS | ARITHMETIC CORE |

| | and reduce the area for compressor architecture. This paper presents two novel approximate 4:2 compressor architectures for reducing area, delay and power dissipation in multipliers in which more than two stages of cascaded compressors are required for partial product accumulation. | |
|-----------|---|-----------------|
| TVMAFE390 | A NOVEL APPROXIMATE ADDER DESIGN USING ERROR REDUCED CARRY PREDICTION AND CONSTANT TRUNCATION Objective: In this project, the 32 nm CNTFET-based Ternary Half Adder (THA) and Multiplier (TMUL) circuits use novel ternary unary operator circuits and implement two power supplies Vdd and Vdd/2 without using any ternary decoders, basic logic gates, or encoders to minimize the number of used transistors and improve the energy efficiency. | ARITHMETIC CORE |
| TVMAFE391 | INEXACT SIGNED WALLACE TREE MULTIPLIER USING REVERSIBLE | |
| | LOGIC GATES Objective: The main objective of this paper is to improve the accuracy and reduce the reversible logic realization metrics, we are implementing inexact Baugh-Wooley Wallace tree multiplier by using reversible logic for this we can find the applications in CNN and image processing. | ARITHMETIC CORE |
| TVMAFE400 | THE CONSTANT MULTIPLIER FFT Objective: The main objective of this paper is to achieving the highest clock frequency and to reduce the area we are implementing the 4-parallel radix-25 Constant Multiplier FFT. | DSP |
| TVMAFE380 | DESIGN AND VERIFICATION OF 16 BIT RISC PROCESSOR USING | |
| | VEDIC MATHEMATICS Objective: The main objective of this paper is to reduce the area and power and to improve high speed by implementing the RISC with Vedic processor for smaller and simpler set of instructions. | DSP |
| TVMAFE382 | DESIGN OF VERY HIGH-SPEED PIPELINE FIR FILTER THROUGH PRECISE CRITICAL PATH ANALYSIS Objective: The main objective of this paper is to get the maximum throughput, speed and reduction in area, delay; we are implementing the High-speed pipelined FIR filter through precise critical path analysis. | DSP |
| TVMABE135 | TRANSMISSION GATE-BASED 8T SRAM CELL FOR BIOMEDICAL APPLICATIONS Objective: In this paper, a novel transmission gate based SRAM is designed for biomedical applications. By using this SRAM, the extra circuit required for the read operation can be reduced. Hence, the proposed SRAM provides better performance in | CORE MEMORIES |

| | terms of area and power. | |
|--------------|--|-----------------|
| TVMABE129 | APPROXIMATE ADIABATIC LOGIC FOR LOW-POWER AND SECURE | |
| I VIVIADE123 | EDGE COMPUTING | |
| | Objective: This paper aims to implement a full adder sum circuit | |
| | and carry circuit is designed using Energy-Efficient Secure | |
| | Positive Feedback Adiabatic Logic (EE-SPFAL). Energy-Efficient | LOW POWER |
| | Secure Positive Feedback Adiabatic Logic (EE-SPFAL) is an | |
| | adiabatic logic family, which is suitable to design low power and secure adiabatic circuit. EE-SPFAL has uniform power | |
| | consumption and is secure against Differential Power Analysis | |
| | (DPA) based attacks. | |
| TVMAFE393 | DESIGN OF APPROXIMATE MULTIPLIER LESS DCT WITH CSD | |
| | ENCODING FOR IMAGE PROCESSING | |
| | Objective: The main objective of this paper is to reduce the | |
| | area, power by implementing the approximate multiplier less | DIP |
| | DCT architecture, which is presented by taking advantage of the correlation between adjacent pixels of images based on CSD | |
| | encoding for image processing. | |
| TVMAFE384 | FAST MAPPING AND UPDATING ALGORITHMS FOR A BINARY CAM | |
| | ON FPGA | |
| | Objective: The main objective of this paper is to speed up the | |
| | table makeup and reduce the energy consumption for the | |
| | mapping and updating algorithms for a binary CAM on FPGA | CORE MEMORIES |
| | algorithm selects at most one layer of SRAM blocks for contents updating at any location rather than activating the entire | |
| | memory blocks and ultimately consumes less energy during the | |
| | update process. | |
| TVMAFE378 | CONSTANT-TIME SYNCHRONOUS BINARY COUNTER WITH | |
| | MINIMAL CLOCK PERIOD | |
| | Objective: The main objective of this paper is to reduce fan-out | COMMUNICATIONS |
| | and improve the counting rate, for this we are implementing | |
| | constant-time synchronous binary counter based on pre- scaling concept. | |
| TVMAFE394 | SAM: A SEGMENTATION BASED APPROXIMATE MULTIPLIER FOR | |
| | ERROR TOLERANT APPLICATIONS | |
| | Objective: The main objective of this paper is to reduce the area | |
| | and power consumption while maintaining the desired | ARITHMETIC CORE |
| | accuracy, we are introducing a novel technique to multiply two | |
| | unsigned binary numbers through a Segmentation based | |
| | Approximate Multiplier (SAM). | |

| TVMAFE98 | THE MESOCHRONOUS DUAL-CLOCK FIFO BUFFER | |
|-----------|--|-----------------|
| | Objective: This aim of this proposed work is to design a novel mesochronous dual-clock first-input-first-output (FIFO) buffer that can handle both clock synchronization and temporary data storage. Through this design, data is safely transferred on the receiver side of a mesochronous interface without being explicitly synchronized. | COMMUNICATIONS |
| TVMABE68 | DPL-BASED NOVEL TIME EQUALIZED CMOS TERNARY-TO-BINARY | |
| | CONVERTER Objective: The main theme of this work is to convert the 3-valued ternary input into a two-valued binary output. This circuit was designed with Double Pass transistor Logic (DPL) by using this logic design power and power delay product will be reduced. | LOW POWER |
| TVMABE169 | EFFECTIVE LOW LEAKAGE 6T AND 8T FINFET SRAM: USING CELLS | |
| | WITH REVERSE-BIASED FINFETS, NEAR-THRESHOLD OPERATION, AND POWER GATING Objective: The main objective of this project is to reduce the leakage current of the SRAM memory cells by using powergating technique. | LOW POWER |
| TVPGFE302 | A HIGH-PERFORMANCE CORE MICRO-ARCHITECTURE BASED ON | |
| | RISC-V ISA FOR LOW POWER APPLICATIONS Objective: The main objective of this paper is to enhance the operation speed with the help of instruction set architecture. The multiplier and dividers are employed to perform both signed and unsigned operation with less area cost | COMMUNICATION |
| TVMAFE392 | Low Error Efficient Approximate Adders for FPGAs Objective: The main objective of this paper is to design the error efficient two approximate adders for FPGAs. | ARITHMETIC CORE |
| TVMAFE398 | LOW-POWER MULTIPLEXER STRUCTURES TARGETING EFFICIENT | |
| | QCA Objective: The main aim of this paper is to implement mux architecture based on QCA in an efficient way and improve the performance of the design. | QCA |
| TVMAFE97 | SECURITY ENHANCEMENT OF INFORMATION USING | |
| | MULTILAYERED CRYPTOGRAPHIC ALGORITHM Objective: The main objective of this paper is to reduce the problem of data hacking by using the multilayer linear feedback shift register (LFSR) cryptographic technique. The cascaded multilayer cryptography is analyzed for improved data security and reducing power consumption. | COMMUNICATION |

| TVMAFE123 | BORROW SELECT SUBTRACTOR FOR LOW POWER AND AREA EFFICIENCY Objective: The main objective of this work is to increase the speed of processors but the processing speed of subtraction is limited by the sequential borrow bit. To overcome this problem by proposing two architectures of modified borrow select subtractor that consume lower power with increased area efficiency. | ARITHMETIC CORE |
|-----------|---|-----------------|
| TVMAFE91 | A HIGH-PERFORMANCE MULTIPLY-ACCUMULATE UNIT BY INTEGRATING ADDITIONS AND ACCUMULATIONS INTO PARTIAL PRODUCT REDUCTION PROCESS Objective: The main objective of this paper is to implement a MAC architecture with Low power & reduced delay. The MAC unit was designed with mainly partial product generation and Accumulation units. Hence, the delay can be reduced by integrating a part of additions into the partial product reduction (PPR) process. | DSP CORE |
| TVMIFE01 | PERFORMANCE ANALYSIS OF WALLACE TREE MULTIPLIER WITH KOGGE STONE ADDER USING 15-4 COMPRESSOR Objective: The main objective of this paper is to design a parallel prefix adder based Wallace tree multiplier using 15-4 compressors to get the better performance | ARITHMETIC CORE |
| TVMAFE450 | AREA EFFICIENT MULTILAYER ARITHMETIC LOGIC UNIT IMPLEMENTATION IN QUANTUM-DOT CELLULAR AUTOMATA Objective: In this paper, a multilayer 1-bit ALU is proposed using full adder and multiplexer circuits. The proposed ALU design is having less area because of multilayer and delay is less compared to existing design. | QCA |
| TVMAFE456 | BINARY CODED DECIMAL SEVEN SEGMENT CIRCUIT DESIGNING USING QCA Objective: In this paper decoder, circuit is proposed which is mainly used in seven segment displays. By taking into considerations of all the advantages of Quantum dot cellular automata the proposed seven-segment display performs better in all circumstances. | QCA |
| TVMABE157 | CARBON NANOTUBE FIELD EFFECT TRANSISTOR (CNTFET) AND RESISTIVE RANDOM ACCESS MEMORY (RRAM) BASED TERNARY COMBINATIONAL LOGIC CIRCUITS Objective: The designs of ternary half adder & ternary half subtractor are evaluated while using Synopsis HSPICE simulation software with standard 32 nm CNTFET technology. Based on the obtained simulation results, the proposed designs show a | CORE MEMORIES |

| | significant reduction in the transistor count, decreased cell area, and lower power consumption. In addition, due to the participation of RRAM, the proposed designs have advantages in terms of non-volatility. | |
|-----------|--|-----|
| TVMAFE464 | QCA BASED DESIGN OF COST-EFFICIENT CODE CONVERTER WITH TEMPERATURE STABILITY AND ENERGY EFFICIENCY ANALYSIS Objective: The main aim of this paper is to implement code converters with reduced number on QCA cells in an efficient way and improve the performance of the design. | QCA |

MATLAB IMAGE PROCESSING TITLES 2023-2024

| S. NO | TITLES & OBJECTIVE | DOMAIN |
|-----------|---|---------------------|
| TMMAAI220 | SMART AGRICULTURAL ROBOT FOR SPRAYING PESTICIDE BY USING IMAGE PROCESSING-BASED DISEASE CLASSIFICATION TECHNIQUE Objective: This work presents an automatic disease classification and pesticide controller design based on Image Processing (IP) and Machine Learning (ML) techniques. | IMAGE PROCESSING |
| TMMAAI219 | ROAD SURFACE CLASSIFICATION BASED ON RADAR IMAGING BY USING CONVOLUTIONAL NEURAL NETWORK Objective: This approach is proposed for classifying the road surface by analyzing the road surface images that was obtained using the imaging radars. | IMAGE PROCESSING |
| TMMAAI218 | IMAGE CLASSIFICATION OF RICE LEAF DISEASES BY USING RANDOM FOREST ALGORITHM Objective: In this work, image classification is used to classify the data sets of rice leaf diseases like Brown Spot Rice disease (BSR) and Bacterial Leaf Blight disease (BLB) by making use of Random Forest Algorithm. | IMAGE PROCESSING |
| TMMAAI217 | DETECTION OF MULBERRY RIPENESS STAGES BY USING DEEP LEARNING MODELS Objective: This study does the classification of mulberry fruit ripening stages by using Convolutional Neural Networks (CNNs) such as DenseNet, Inception-v3, ResNet-18, and AlexNet. | IMAGE PROCESSING |
| TMMAAI216 | COVID 19, PNEUMONIA, AND OTHER DISEASES CLASSIFICATION BY USING CHEST X-RAY IMAGES Objective: This work proposes an alternative way of detecting the Covid-19 disease by using Convolutional Neural Networks based deep learning models to analyze the similar kind of ailments like Pneumonia. | IMAGE PROCESSING |

| TMMAAI215 | MOVING OBJECT DETECTION SYSTEM BASED ON THE MODIFIED TEMPORAL DIFFERENCE AND OTSU ALGORITHM Objective: In this work, a combinational approach for moving object detection is proposed. Here, the difference in images are calculated by subtracting two input modified frames, at each pixel position. | IMAGE PROCESSING |
|-----------|--|---------------------|
| TMMAAI214 | DESIGN AND EVALUATION OF A DEEP LEARNING ALGORITHM FOR EMOTION RECOGNITION Objective: This paper attempts to make the emotion recognition, where seven different emotions such as happy, sad, neutral, angry, surprise, fear, and disgust are evaluated by using a Convolutional Neural Network. | IMAGE PROCESSING |
| TMMAAI213 | AUTOMATED BREAST MASS CLASSIFICATION SYSTEM USING DEEP LEARNING AND ENSEMBLE LEARNING IN DIGITAL MAMMOGRAM Objective: Breast cancer (Malignant, Benign or Normal) classification systems are implemented in this work by using deep learning technologies such as Convolutional Neural Network (CNN). | IMAGE PROCESSING |
| TMMAAI212 | YOLO-BASED DEEP LEARNING FRAMEWORK FOR OLIVE FRUIT FLY DETECTION AND COUNTING Objective: In this paper, we present a deep learning framework for detecting and counting the number of olive fruit flies by using the YOLO algorithm. | IMAGE PROCESSING |
| TMMAAI211 | PROSTATE CANCER DETECTION USING DEEP LEARNING AND TRADITIONAL TECHNIQUES Objective: Prostate cancer is detected by using deep learning-based long short-term memory (LSTM) and Residual Net (ResNet - 101) to compare with non-deep learning classifiers such as Support Vector Machine (SVM), Gaussian Kernel, and k-nearest neighbor to prove the effectiveness of the proposed detection system. | IMAGE PROCESSING |
| TMMAAI210 | PRE-PROCESSING OF BREAST CANCER IMAGES TO CREATE DATASETS FOR DEEP-CNN Objective: The main objective of this research is to propose effective image pre-processing methods to create datasets that can save computational time for the neural network and thereby improve accuracy and classification rates. | IMAGE PROCESSING |
| TMMAAI209 | IDENTIFICATION OF TOBACCO CROP BASED ON MACHINE LEARNING FOR A PRECISION AGRICULTURAL SPRAYER Objective: In this work, comparison of Machine learning and Deep learning algorithms are done to classify whether the image is tobacco or not. | IMAGE PROCESSING |
| TMMAAI208 | ENHANCED YOLO V3 TINY NETWORK FOR REAL-TIME SHIP DETECTION FROM VISUAL IMAGE Objective: The algorithm can be used in video surveillance to | IMAGE PROCESSING |

| | achieve the accurate classification and positioning of six types of ships (including ore carriers, bulk cargo carriers, general cargo ships, container ships, fishing boats, and passenger ships) by using the YOLOv3 algorithm. | |
|-----------|--|------------|
| TMMAAI207 | ADAPTIVE FUSION OF MULTI-SCALE YOLO FOR PEDESTRIAN | 114405 |
| | DETECTION | IMAGE |
| | Objective: A pedestrian detection method based on the improved | PROCESSING |
| | · | |
| | YOLOv3 algorithm is proposed. | |
| | CLASSIFICATION OF ARAB ETHNICITY BASED ON FACE IMAGE BY | |
| TMMAAI206 | USING DEEP LEARNING APPROACH | 13.44.05 |
| | Objective: Our aim in this work is to create an Arab dataset with | IMAGE |
| | | PROCESSING |
| | proper labeling of Arab sub-ethnic groups, and then classify these | |
| | labels using deep learning approaches | |

MATLAB COMMUNICATION TITLES 2023-2024

| S. NO | TITLES & OBJECTIVE | DOMAIN |
|----------|---|----------------------|
| TMMASP39 | REAL-TIME ECG R-PEAK DETECTION BY EXTREMUM SAMPLING Objective: Detection of ECG R-peaks using extremities and sampling. | SIGNAL PROCESSING |
| TMMASP38 | A NOVEL METHOD OF QRS PEAK DETECTION USING TIME AND AMPLITUDE THRESHOLDS AND STATISTICAL FALSE PEAK ELIMINATION Objective: Detection of QRS Peak using Time and Amplitude thresholding and elimination of false peaks through statistical analysis. | SIGNAL PROCESSING |
| TMMASP37 | DEVELOPMENT OF A NEW BIOMETRIC AUTHENTICATION METHOD BASED ON ECG SIGNALS Objective: Extracting features through a new method known as Wave Modeling for the authentication of ECG Signals. | SIGNAL PROCESSING |
| TMMASP36 | ECG-BASED AUTHENTICATION USING EMPIRICAL MODE DECOMPOSITION AND SUPPORT VECTOR MACHINES Objective: ECG Signals are De-noised through EMD and the support vector machines are used for classification. | SIGNAL PROCESSING |
| TMMASP35 | AUTOMATIC MODULATION CLASSIFICATION USING PRINCIPAL COMPOSITION ANALYSIS BASED FEATURES SELECTION Objective: Classification of Modulation scheme using KNN and SVM and performing a comparative study between these two schemes. Then the features are selected based on Principal Composition Analysis. | SIGNAL PROCESSING |

| TMMAWS17 | LIFETIME IMPROVEMENT OF WIRELESS SENSOR NETWORK ENERGY AND DISTANCE PARAMETERS ON LEACH PROTOCOL | |
|------------|--|---------------|
| | Objective: Improving the lifetime of nodes in a WSN through | COMMUNICATION |
| | residual energy and distance rather than only on probabilities. | |
| TMMACO85 | RESEARCH ON LINEAR PRE-CODING ALGORITHM BASED ON 5G | |
| | MOBILE COMMUNICATION TECHNOLOGY | COMMUNICATION |
| | Objective: Comparison of linear precoding algorithms such as | COMMUNICATION |
| | MRT with existing ZF and MMSE. | |
| TMMACO84 | ENHANCED NEW CHANNEL ESTIMATION TECHNIQUE FOR 5G MIMO | |
| | COMMUNICATION SYSTEMS | COMMUNICATION |
| | Objective: Developed a new channel estimation technique called M-Estimator for 5G MIMO systems. | |
| TMMACO83 | CLUSTERING ROUTING ALGORITHM FOR WIRELESS SENSOR | |
| | NETWORK BASED ON MIXED STRATEGY GAME THEORY | |
| | Objective: Improving the node's lifetime in a WSN using Mixed | COMMUNICATION |
| | Strategy Game Theory. | |
| TMMACO82 | ROLE OF MILLIMETER WAVE FOR FUTURE 5G MOBILE NETWORKS: ITS | |
| | POTENTIAL, PROSPECTS, AND CHALLENGES | COMMUNICATION |
| _ | Objective: Verifying the role of mm-waves in future 5G networks. | |
| TMMAWS16 | CLUSTERING BASED ON WHALE OPTIMIZATION ALGORITHM FOR IOT | |
| | OVER WIRELESS SENSOR NODES Objective: Clustering of wireless sensor nodes using Whale | COMMUNICATION |
| | Optimization Algorithm. | |
| TMMACO81 | QUEUING OVER EVER-CHANGING COMMUNICATION SCENARIOS IN | |
| | TACTICAL NETWORKS | |
| | Objective: Clustering Queuing technique for ever-changing | COMMUNICATION |
| | scenarios in tactical networks. | |
| TMMAWS13 | A NODE OVERHAUL SCHEME FOR ENERGY EFFICIENT CLUSTERING IN | |
| | WIRELESS SENSOR NETWORKS | |
| | Objective: The main objective of this project is to use the USC- | COMMUNICATION |
| | LEACH protocol to enhance the network lifetime and generate clusters of uniform size. | |
| TMPGCO38 | COVERT WIRELESS COMMUNICATION IN IOT NETWORK FROM AWGN | |
| 11111 0000 | CHANNEL TO THZ BAND | |
| | Objective: The primary idea is to improve covertness and | COMMUNICATION |
| | decrease the SNR wall at Willie by actively modifying signals under | |
| | the molecular absorption peaks in the THz spectrum. | |
| TMMASP32 | SPATIAL POLAR METRIC TIME-FREQUENCY DISTRIBUTION-BASED | |
| | DOA ESTIMATION: COMBINING ESPRIT WITH MUSIC. | COMMUNICATION |
| | Objective: The main objective of this paper is to construct a time- | |
| | frequency distribution by combining the major algorithms like | |

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- Project guidance from experienced people
- Internship certificate.
- Crash courses for out station students
- On-line Project Execution
- TeamViewer/ Skype Support

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