SPIRO
PRIME TECH SERVICES

- Research & Development Program(RDP)
- Final Year Academic Project(FAP) In Software And Embedded Technologies
- Application Development Program(ADP)

PROJECT TITLES GUIDE
2021 - 2022

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2.	ITPML07E	PREDICTION OF STROKE USING MACHINE LEARNING TECHNIQUE WITH HARDWARE TESTING	The proposed method is to build ML model for prediction of Stroke.	2021
3.	ITPML08E	AIR POLLUTION PREDICTION USING DATA SCIENCE TECHNIQUE WITH HARDWARE TESTING	The proposed method is to build a Supervised ML model for Prediction of Air pollutants.	2021
4.	ITPML09E	SOLAR POWER GENERATION PREDICTION USING MACHINE LEARNING TECHNIQUE WITH HARDWARE TESTING	The proposed method is to build Supervised ML model for Prediction of Solar power generation prediction.	2021
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6.	ITPML11E	IDENTIFY COVID-19 OR NOT USING SMLT WITH HARDWARE TESTING	The proposed method is to build machine learning model for Identify Covid-19 or not.	2021
7.	ITPML12E	WATER POTABILITY PREDICTION USING AI WITH HARDWARE TESTING	The proposed method is to build AI model for prediction of water potability.	2021
8.	ITPML14E	AGRICULTURAL PRODUCT PRICE AND CROP CULTIVATION PREDICTION BASED ON DATA SCIENCE TECHNIQUE WITH HARDWARE TESTING	The proposed method is to build Supervised ML model for Prediction of agricultural product price and crop cultivation.	2021
9.	ITPML16E	HUMAN ACTIVITY(RUN OR WALK) USING SMLT WITH HARDWARE TESTING	The proposed method is to build SMLT model for prediction of human activity.	2021
10.	ITPML19E	RAINFALL PREDICTION USING DATA SCIENCE TECHNIQUE WITH HARDWARE TESTING	The proposed method is to build AI model for Prediction of Rainfall.	2021
11.	ITPML24E	IDENTIFY ELECTRICAL FAULT DETECT USING MACHINE LEARNING TECHNIQUE WITH HARDWARE TESTING	The proposed method is to build ML model for Identify of electrical fault detection.	2021
12.	ITPML39E	PREDICTION OF WINE QUALITY USING DATA SCIENCE TECHNIQUE WITH HARDWARE TESTING	The proposed method is to build Supervised ML model for Prediction of wine quality.	2021

13.	ITPML40E	NORMAL OR AGGRESSIVE DRIVING BEHAVIOUR CLASSIFICATION USING ML WITH HARDWARE TESTING	The proposed method is to build ML model for prediction of normal or aggressive driving.	2021
14.	ITPML41E	OCCUPANCY DETECTION USING ML WITH HARDWARE TESTING	The proposed method is to build ML model for prediction of occupancy.	2021
15.	ITPML42E	MATERNAL HEALTH RISK LEVEL PREDICTION USING SMLT WITH HARDWARE TESTING	The proposed method is to build SMLT model for prediction of maternal health risk.	2021

MACHINE LEARNING

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
16.	ITPML01	PREDICTION OF HEART ATTACK USING SMLT	The proposed method is to build ML model for classification of Heart Attack.	2021
17.	ITPML02	PREDICTION OF DIABETES USING DATA SCIENCE TECHNIQUE	The proposed method is to build AI model to predict diabetes.	2021
18.	ITPML03	CHILDREN MORTALITY PREDICTION USING ML	This project is to build a model to predict the morality rate.	2021
19.	ITPML04	DIAGNOSIS OF COPD (CHRONIC OBSTRUCTIVE PULMONARY DISEASE) BASED ON A KNOWLEDGE GRAPH AND INTEGRATED MODEL (ML).	The proposed method is to build AI model to predict Pulmonary Disease.	2021
20.	ITPML05	PREDICTION OF ACUTE LIVER FAILURE USING SUPERVISED MACHINE LEARNING APPROACH	The proposed method is to build Supervised ML model for Prediction of Liver failure.	2021
21.	ITPML06	SIGNIFICANT OF EARTHQUAKES HAPPENS USING DATA SCIENCE TECHNIQUE	The proposed method is to build ML model for prediction of Earthquake.	2021
22.	ITPML07	PREDICTION OF STROKE USING MACHINE LEARNING TECHNIQUE	The proposed method is to build ML model for prediction of Stroke.	2021
23.	ITPML08	AIR POLLUTION PREDICTION USING DATA SCIENCE TECHNIQUE	The proposed method is to build Supervised ML model for Prediction of Air pollutants.	2021
24.	ITPML09	SOLAR POWER GENERATION PREDICTION USING MACHINE LEARNING TECHNIQUE(ML)	The proposed method is to build Supervised ML model for Prediction of Solar power generation prediction.	2021
25.	ITPML10	FLOODS PREDICTION USING AI MODEL.	The proposed method is to build ML model for Prediction of flood.	2021
26.	ITPML11	IDENTIFY COVID-19 OR NOT USING SMLT	The proposed method is to build machine learning model for Identify Covid-19 or not.	2021

27.	ITPML12	DRINKING WATER QUALITY IS SAFE FOR HUMAN CONSUMPTION CLASSIFICATION USING MACHINE LEARNING TECHNIQUE (ML).	The proposed method is to build machine learning model for classification of water quality.	2021
28.	ITPML13	PREDICTION STOCK PRICE USING DATA SCIENCE TECHNIQUE.	The proposed method is to build AI model for Prediction of Stock Price.	2021
29.	ITPML14	AGRICULTURAL PRODUCT PRICE AND CROP CULTIVATION PREDICTION BASED ON DATA SCIENCE TECHNIQUE	The proposed method is to build Supervised ML model for Prediction of agricultural product price and crop cultivation.	2021
30.	ITPML15	CRYPTO CURRENCY MARKET PRICE PREDICTION USING DATA SCIENCE PROCESS	The proposed method is to build Supervised ML model for Prediction of crypto currency market price.	2021
31.	ITPML16	HUMAN ACTIVITY RECOGNITION WITH SMARTPHONES USING MACHINE LEARNING PROCESS	The proposed method is to build Supervised ML model for classification of Human activity with smartphone body sensor data.	2021
32.	ITPML17	BITCOIN PRICE ANALYZE AND PREDICTION USING DATA SCIENCE PROCESS	The proposed method is to build Supervised ML model for Prediction of Bit coin price.	2021
33.	ITPML18	PREDICTION OF HOUSE PRICE USING SMLT	The proposed method is to build ML model for Prediction of House price.	2021
34.	ITPML19	RAINFALL PREDICTION USING DATA SCIENCE TECHNIQUE.	The proposed method is to build AI model for Prediction of Rainfall.	2021
35.	ITPML20	PREDICTION OF CYBER-ATTACKS USING DATA SCIENCE TECHNIQUE	The proposed method is to build Supervised ML model for Prediction of Cyber-attacks.	2021
36.	ITPML21	HEALTH INSURANCE CLAIM FRAUDS USING SML TECHNIQUE (ML)	The proposed method is to build Supervised ML model for Prediction of Health Insurance claim frauds.	2021
37.	ITPML22	REAL AND FAKE NEWS CLASSIFICATION USING DATA SCIENCE PROCESS	The proposed method is to build Supervised ML model for Classification of Real and Fake News.	2021
38.	ITPML23	CREDIT CARD FRAUD DETECTION USING DATA SCIENCE TECHNIQUE	The proposed method is to build Supervised ML model for Prediction of credit Card fraud.	2021
39.	ITPML24	IDENTIFY ELECTRICAL FAULT DETECT USING MACHINE LEARNING TECHNIQUE	The proposed method is to build ML model for Identify of electrical fault detection.	2021

40.	ITPML25	BANK LOAN APPROVAL DATA ANALYZE AND PREDICTION USING DATA SCIENCE TECHNIQUE (ML).	The proposed method is to build Supervised ML model for Prediction of Bank Loan Approval.	2021
41.	ITPML26	PREDICTION OF PHISHING WEBSITES USING ML	The proposed method is to build ML model for classification of phishing websites	2021
42.	ITPML27	PREDICTION OF ELIGIBILITY FOR COVID-19 VACCINE USING SMLT TECHNIQUE	The proposed method is to build AI model to predict covid-19 vaccine eligibility.	2021
43.	ITPML28	PREDICTION OF MENTAL HEALTH (DEPRESSION) USING DATA SCIENCE TECHNIQUE	This project is to build a model to predict the mental health.	2021
44.	ITPML29	ALZHEIMER PREDICTION USING SMLT	The proposed method is to build AI model to predict Alzheimer Disease.	2021
45.	ITPML30	CLASSIFICATION OF BREAST CANCER USING AI TECHNIQUE	The proposed method is to build Supervised ML model for Prediction of Breast Cancer.	2021
46.	ITPML31	PREDICTION OF HATE SPEECH USING (NLP) MACHINE LEARNING METHOD	The proposed method is to build ML model for prediction of Hate Speech.	2021
47.	ITPML32	TYPES OF ELECTRICAL FAULT PREDICTION USING MACHINE LEARNING TECHNIQUE	The proposed method is to build ML model for prediction of electrical fault types.	2021
48.	ITPML33	PREDICTION OF ELECTRICITY BILL USING SMLT	The proposed method is to build Supervised ML model for Prediction of Electricity Bill.	2021
49.	ITPML34	GOOGLE PLAYSTORE REVIEWS (NLP) PREDICTION USING ML	The proposed method is to build Supervised ML model for Prediction Of Google Play store Reviews.	2021
50.	ITPML35	IDENTIFING SOFTWARE BUGS OR NOT USING SMLT MODEL	The proposed method is to build ML model for Prediction of Software Bugs.	2021
51.	ITPML36	PREDICTION OF SPAM OR HAM	The proposed method is to build machine learning model for SPAM or HAM.	2021
52.	ITPML37	PREDICTION OF BANK CUSTOMER CHURN USING MACHINE LEARNING TECHNIQUE.	The proposed method is to build machine learning model for classification of bank customer churn.	2021
53.	ITPML38	REAL AND FRAUD JOB POSTING (NLP) PREDICTION USING RNN APPROACH.	The proposed method is to build AI model for Prediction of real and fake job.	2021

54.	ITPML39	PREDICTION OF WINE QUALITY USING DATA SCIENCE TECHNIQUE	The proposed method is to build Supervised ML model for Prediction of wine quality.	2021

DEEP LEARNING WITH HARDWARE

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
55.	ITPDL10E	DRIVER YAWN PREDICTION USING CNN AND ALERT SYSTEM USING ARDUINO	This paper proposes a deep learning model consisting of a convolutional neural network that classifies Driver yawn or not in the training part of the prototype system.	2021
56.	ITPDL16E	AGE PREDICTION AND SCREENING USING DEEP LEARNING AND ARDUINO	We are proposing a deep CNN model that was trained on a database for face recognition tasks is used to estimate the age of the person.	2021
57.	ITPDL21E	TRAIN TRACK CRACK CLASSIFICATION AND ALERT SYSTEM USING CNN	This paper proposes a deep learning model consisting of a convolutional neural network that classifies train track Classification in the training part of the prototype system	2021
58.	ITPDL22E	IOT BASED COVID OR NORMAL CLASSIFICATION USING DL	This project presents Covid or normal Classification can be solved by analyzing one or more of these types	2021
59.	ITPDL24E	FIRE CLASSIFICATION AND RESCUE SYSTEM USING DL AND ARDUINO	This paper proposes a deep learning model consisting of a convolutional neural network that classifies fire Classification in the training part of the prototype system.	2021
60.	ITPDL29E	FINDING ROAD POTHOLE AND ALERT SYSTEM USING CNN AND ARDUINO	This paper proposes a deep learning model consisting of a convolutional neural network that finds road potholes in the training part of the prototype system	2021
61.	ITPDL31E	IDENTIFYING CASTING PRODUCT SURFACE QUALITY USING DL AND ARDUINO	This paper proposes a deep learning model consisting of a convolutional neural network that identifies casting product surface quality in the training part of the prototype system	2021

62.	ITPDL32E	ANIMAL IDENTIFICATION AND ALERT SYSTEM USING DEEP LEARNING AND ARDUINO	This paper proposes a deep learning model consisting of a convolutional neural network that Identifies Animal in the training part of the prototype system	2021
63.	ITPDL33E	MILITARY AIRCRAFT IDENTIFICATION AND SHOOTING USING CNN AND ARDUINO	We are proposing a deep CNN model that was trained on a database for Military aircraft Identification using CNN. It identifies military aircraft.	2021
64.	ITPDL34E	WASTE CLASSIFICATION AND SORTING USING DEEP LEARNING AND ARDUINO	This paper proposes a deep learning model consisting of a convolutional neural network that classifies waste Classification in the training part of the prototype system	2021

DEEP LEARNING / COMPUTER VISION (OpenCV)

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
65.	ITPDL01	EMOTION CLASSIFICATION USING DEEP LEARNING TECHNIQUE	This project presents speech emotion recognition can be solved by analyzing one or more of these features.	2021
66.	ITPDL02	COVID TWEET ANALYSIS USING NLP	This project analyses the tweets regarding COVID-19 in India and its affect. All tweets are categorized into 3 categories (Positive, Negative and Neutral).	2021
67.	ITPDL03	CLOTHING SALE ANALYSIS USING RNN	This project conducts a comprehensive literature review and selects a set of papers in the literature on fashion retail sales forecasting.	2021
68.	ITPDL04	OBJECT CLASSIFICATION USING CNN	Objects can be easily classified and identified by humans. The visual system of human is very fast and accurate and can perform complex tasks like object identification and detection very easily	2021
69.	ITPDL05	PERSON RE-IDENTIFICATION USING OPENCV	Person re-identification (re-id) methods depend mostly on single-scale appearance information. Aims at retrieving a person of interest across multiple non-overlapping cameras.	2021

70.	ITPDL06	PARALYSIS DISEASE PREDICTION USING CNN	To process system is use to predict paralysis disease using CNN.	2021
71.	ITPDL07	RETINAL IMAGE CLASSIFICATION USING NEURAL NETWORK	This study aims to develop a system to distinguish retinal disease from fundus images.	2021
72.	ITPDL08	SKIN CANCER CLASSIFICATION USINGTENSORFLOW AND KERAS	The innovative solution that provides efficient disease prediction and deep learning with convolutional neural networks (CNNs) has achieved great success in the classification of various skin cancer diseases.	2021
73.	ITPDL09	BLOOD CELLS CLASSIFICATION USING DL	This project presents a comprehensive review of the principle and application of deep learning in retinal image analysis.	2021
74.	ITPDL10	DRIVER YAWN PREDICTION USING CNN	This paper proposes a deep learning model consisting of a convolutional neural network that classifies Driver yawn or not in the training part of the prototype system.	2021
75.	ITPDL11	SOCIAL DISTANCING MONITORING IN COVID-19 USING DEEP LEARNING	The purpose of this project is to provide an effective social distance monitoring solution in low light environments in a pandemic situation.	2021
76.	ITPDL12	CHATBOT	A Chatbot is a software that can communicate with a human by using natural language.	2021
77.	ITPDL13	WHEAT LEAF DISEASE RECOGNITION USING TENSORFLOW AND KERAS	We are proposing a deep CNN model that was trained on a database for Wheat Leaf disease Recognition task is used to estimate the age of the person.	2021
78.	ITPDL14	TRUMP TWEETS ANALYSIS USING RNN	This project presents of Trump's tweets in examines the rhetoric of his tweets. We find that, in the aggregate, Trump's tweets are neither positive nor negative	2021
79.	ITPDL15	FOOD IMAGE CLASSIFICATION USING TENSORFLOW AND KERAS	This paper proposes a deep learning model consisting of a convolutional neural network that classifies food into specific categories in the training part of the prototype system.	2021

80.	ITPDL16	AGE PREDICTION USING DEEP LEARNING	We are proposing a deep CNN model that was trained on a database for face recognition task is used to estimate the age of the person.	2021
81.	ITPDL17	ALZHEIMER CLASSIFICATION USING TENSORFLOW AND KERAS MODEL	This paper proposes a deep learning model consisting of a convolutional neural network that classifies Alzheimer Classification in the training part of the prototype system.	2021
82.	ITPDL18	SIGN LANGUAGE PREDICTION USING CNN	Sign Language are a form of nonverbal communication in which visible bodily actions are used to communicate important messages, either in place of speech or together and in parallel with spoken words.	2021
83.	ITPDL19	FISH CLASSIFICATION USING DL	This project presents Fish Classification can be solved by analyzing one or more of these types.	2021
84.	ITPDL20	YOGA CLASSIFICATION USING CNN	This paper proposes a deep learning model consisting of a convolutional neural network that classifies Yoga in the training part of the prototype system.	2021
85.	ITPDL21	TRAIN TRACK CRACK CLASSIFICATION USING CNN	This paper proposes a deep learning model consisting of a convolutional neural network that classifies train track Classification in the training part of the prototype system.	2021
86.	ITPDL22	COVID OR NORMAL CLASSIFICATION USING DL	This project presents Covid or normal Classification can be solved by analyzing one or more of these types.	2021
87.	ITPDL23	IDENTIFY TUBERCULOSIS USING CNN	This paper proposes a deep learning model consisting of a convolutional neural network that identify tuberculosis in the training part of the prototype system	2021
88.	ITPDL24	FIRE CLASSIFICATION USING DL	This paper proposes a deep learning model consisting of a convolutional neural network that classifies fire Classification in the	2021

			training part of the prototype system.	
89.	ITPDL25	SOIL TYPE PREDICTION USING KERAS FRAMEWORK	This paper proposes a deep learning model consisting of a convolutional neural network that predict soil types in the training part of the prototype system	2021
90.	ITPDL26	MALARIA IDENTIFICATION USING NEURAL NETWORK	This project presents malaria identification can be solved by analyzing and predicting malaria affected or not affected.	2021
91.	ITPDL27	DIGIT CLASSIFICATION USING DEEP LEARNING	This paper proposes a deep learning model consisting of a convolutional neural network that classifies digit Classification in the training part of the prototype system	2021
92.	ITPDL28	IDENTIFY TYPES OF BACTERIA USING TENSORFLOW	This project presents bacteria Classification can be solved by analyzing one or more of these types.	2021
93.	ITPDL29	FINDING ROAD POTHOLE USING CNN	This paper proposes a deep learning model consisting of a convolutional neural network that finding road pothole in the training part of the prototype system	2021
94.	ITPDL30	WEATHER CLASSIFICATION USING KERAS AND TENSORFLOW MODEL	This project presents weather Classification can be solved by analyzing one or more of these types.	2021
95.	ITPDL31	IDENTIFYING CASTING PRODUCT SURFACE QUALITY USING DL	This paper proposes a deep learning model consisting of a convolutional neural network that identify casting product surface quality in the training part of the prototype system	2021

DJANGO FRAMEWORK

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
96.	ITPDJ01	COLLEGE STUDENTS PORTAL USING DJANGO FRAMEWORK	This System helps to handle student and staffs. It will also use to student academic details and notes.	2021
97.	ITPDJ02	HOSPITAL MANAGEMENT SYSTEM USING DJANGO FRAMEWORK	This system helps to handle patients and doctor details and to	2021

			get appointment and mange patient history.	
98.	ITPDJ03	ONLINE SHOPPING MANAGEMENT SYSTEM USING DJANGO FRAMEWORK	This project is to build a Shopping Web application for retailing and purchase a products.	2021

JAVA

IEEE TRANSACTION ON CLOUD COMPUTING

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
1.	ITJCC01	CLINICAL DECISION SUPPORT FOR OPTIMIZE PROCESS	Analysis daily/existing report under some categories such as disease, age, gender, daily habit, etc.	. 2021
2.	ITJCC02	ENABLING ENCRYPTED EMAILS FOR SECURITY SERVICES	Users E-mail ids encrypted to hide from the third-party access	2021
3.	ITJCC03	DETECTING SUSPICIOUS FILE MIGRATION IN DYNAMIC SI	Finding and removing the third - party file injection	2021
4.	ITJCC04	DUAL TRACEABLE AND OWNERSHIP TRANSFER	Authority check and derive details from users/doctor access the data from the central repository	2021
5.	ITJCC05	RESOURCE MANAGEMENT OF BUSINESS PROCESS	Allocate the resource to staff for daily basis work to collect the data using daily report	2021
6.	ITJCC06	SECURE AND VERIFIABLE KEYWORD SEARCH	Users/Owners can check and get the data from the authority control based on specific code.	2021
7.	ITJCC07	DYNAMIC SCHEDULING FOR REAL TIME OPTIMIZATION	Allocate the resource to users/owners to access the resources	2021

8.	ITJCC08	CONTRACT BASED ACCESS CONTROL IN HEALTHCARE SYSTEM	Authority provides the permission to access the record by users/doctors	2021
9.	ITJCC09	PUBLIC OPINION ANALYSIS OF CORONA VIRUS ON PANDEMIC SITUATION	Analysis daily/existing report under some categories from people feedbacks	2021

IEEE TRANSACTIONS ON BLOCKCHAIN

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
10.	ITJBC01	DETECTING AND PREVENTING CHECK SCAMS IN BANKING SERVICES	Prevent the Scheck scams before transaction when enter into invalid check	2021
11.	ITJBC02	SMALLHOLDER FARMER IN SUPPLY CHAINS USAGES	Farmer can add their product and delivery to customer with online purchase	2021
12.	ITJBC03	CONSUMER TO CONSUMER PRODUCT TRADING IN ONLINE	Users can trade their product between them in secured way	2021
13.	ITJBC04	SENSITIVE DATA TRANSACTIONS BETWEEN USERS AND AUTHORITY	Authority person provide the response to the requited service from the users/owners	2021
14.	ITJBC05	BLOCKCHAIN WITH CLIENT ASSITANCE FOR THE TRANSACTION PURPOSE	Owners will check and provide the response to the users	2021
15.	ITJBC06	SECURE FRAMEWORK FOR GOVERNMENT TENDER ALLOCATION	Users can quote their tender to government in secured way	2021

IEEE TRANSACTIONS ON DATA MINING

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
16.	ITJDM01	DATA ANALYSIS IN COVID-19 IN VARIOUS CATEGORY	Analysis daily/existing report of covid-19 under some categories such as age, gender, etc.	2021
17.	ITJDM02	DECISION MAKING IN MODREN BANKING SERVICES	Analysis daily/existing report banking service under some categories such as people view, management view.	2021
18.	ITJDM03	NUMBER OF DATA CONTROLS IN DIGITAL DATA MARKETS	Analysis daily/existing report data controls under some categories such as authority, owners, etc.	2021
19.	ITJDM04	DYNAMIC IDENTIFYING DATA CHANGES IN NEWS	Finding the feedback/post of user news changes	2021
20.	ITJDM05	SUICIDE RISK ANALYSIS TO PREVENT AND IDENTIFICATION	Analysis daily/existing report some categories such as age, gender, work, etc.	2021

21.	ITJDM06	ANALYSIS OF SUBSIDIES INCENTIVE MECHANISM FOR RESEARCH AND DEVELOPMENT	Analysis daily/existing report the under some categories such as sectors,	2021
22.	ITJDM07	ANALYSIS OF DIFFERENT EDUCATIONAL SEARCH ENGINE	Analysis daily/existing report under some categories service such as offers, gender wise	2021
23.	ITJDM08	EMPLOYEE DEVELOPMNET ANALYSIS FOR THE MANAGEMENT	Analysis daily/existing report under some categories such as skill, project, extra activities	2021
24.	ITJDM09	STRESS DETECTION OF COMPUTER USERS	Analysis the both male and female stress level find the various category married and income etc..	2021
25.	ITJDM10	DETECTION OF GENERATION UNITS IN DIFFERENT ELECTRICITY MARKET	Analysis the monthly electricity bill in such various category like room ac and flat etc…	2021
26.	ITJDM11	DATA DRIVEN ON EXAMINING SUCCESSFUL ATTRIBUTES WITH STUDENT ACTIVITIES	Analysis daily report under some categories such as online tutorial, books purchase, daily base work	2021

IEEE TRANSACTIONS ON NETWORKING

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
27.	ITJNW01	DYNAMIC ONLINE MARKET SERVICES	Owner may update the product price by using purchase list and wish list	2021
28.	ITJNW02	SOCIAL NETWORK CONSUMPTION SURVEY	Classify the social network user under some categories such as account and data wise.	2021
29.	ITJNW03	RUMOUR BLOCKING IN SOCIAL NETWORKS UTILIZATION	Remove the rumor from the post by authority person	2021
30.	ITJNW04	ADPATED EMAIL ANTI SPOOFING SYSTEM	Prevent the third party when access from user email ids	2021

IEEE TRANSACTIONS ON NETWORK SECURITY

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
31.	ITJNS01	FINDING MALICIOUS DATA ACCESS NETWORK TO IP SPOOFING	Identify the vulnerable users IP address to prevent the spoofing	2021
32.	ITJNS02	DATA OPTIMIZATION FOR CYBER FORENSIC INVESTIGATION	Analysis daily/existing report to make the decision for forensic investigation	2021
33.	ITJNS03	KEYWORD SEARCH IN E-HEALTH CARE TO PROVIDE SECURITY	User name/id can check and request the authority to access the record	2021
34.	ITJNS04	AUTHENTICATED MEDICAL DOCUMENTS CONTROL TO PROVIDE SECURE SERVICES	Doctors request the authority to access the files of users/patients	2021

PHP

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
1.	ITPHP01	COMPLAINT TRACKING IN CRIMINAL INVESTIGATIONS REPORTING SYSTEM.	This system helps to lodge a Complaint and Track the status of the complaint and handle Criminal Investigations and proof management.	2021
2.	ITPHP02	A COST MINIMIZATION RESOURCE ALLOCATION MODEL FOR DISASTER RELIEF OPERATIONS WITH AN INFORMATION CROWDSOURCING	In disaster relief operations uses to help resource allocation and get the resources from donator to distributor and it helps distributor to distribute the resource affected areas.	2021
3.	ITPHP03	ONLINE DOCTOR APPOINTMENT SCHEDULING AND PATIENT MEDICAL HISTORY MANAGEMENT SYSTEM	It helps Doctor to manage Appointment scheduling and patient medical History and helps patient to fix appointment and get Prescription	2021
4.	ITPHP04	SUPPLY CHAIN AND PRODUCTIVITY MANAGEMENT USING DISTRIBUTED LEDGER SYSTEM	It helps to manage product management by getting supply details productivity and manufacturing management. It help to manage capital and productivity.	2021
5.	ITPHP05	COLLEGE ONLINE COURSE PLATFORM WITH SECURE TRANSMISSION	It's an e-learning application.it helps students to learning from whenever they want. Study Materials are post by teachers. It's very useful to students by using remotely	2021
6.	ITPHP06	ONLINE SPECS SHOPPING PLATFORM WITH ATTIRE RECOMMENDATIONS	It is online specs shopping platform. Only the user who purchased the specs can view the attire recommend based on specs types.	2021
7.	ITPHP07	ACTIVITY BASED FRIEND-MAKING OPTIMIZATION IN ONLINE SOCIAL NETWORKS	Friend Making application based making the friends on the users taste by recommending friends. It helps to Chat and create group.	2021
8.	ITPHP08	STOCK MANAGEMENT OF AGRICULTURE PRODUCT UNDER E-COMMERCE ENVIRONMENT	It is a Stock Management of Agriculture Product under E-Commerce Environment.it helps	2021

			farmers to sold agricultural products.	
9.	ITPHP09	ONLINE PARKING-SPACE SHARING MECHANISM WITH PRIVACY PROTECTION	This system helps to share the parking space. It contributes decreasing the traffic by allocating parking space. It makes income for parking space owners by rent payments.	2021
10.	ITPHP10	FEATURE-LEVEL RATING SYSTEM USING CUSTOMER REVIEWS	This system is used as Question answer system. Which provides the reviews about the products with feature level rating.	2021

EMBEDDED SYSTEM

INTERNET OF THINGS

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
1.	ITIOT01	IOT BASED SMART GARBAGE USING LORA WAN.	In this project we proposed a smart garbage system using LORA wireless technology which updates the information to cloud.	2021
2.	ITIOT02	AUTOMOTIVE SMART BLACK-BOX SYSTEM USING IOT.	In this method the black box system is used to store the information of automotive vehicles whenever an accident occurs this system may be helpful for the investigation.	2021
3.	ITIOT03	DRIVING BEHAVIOUR MONITORING FOR INTELLIGENT TRANSPORTATION SYSTEMS.	In this proposed method the driver health status, drowsiness is monitored and the information is continuously monitored using cloud.	2021
4.	ITIOT04	AIR POLLUTION MONITORING USING LOW COST SENSOR WITH IOT LORA WAN CONNECTIVITY.	The air pollution of each area is monitored by using LORA communication technology.	2021
5.	ITIOT05	IOT BASED SMART HEALTHCARE SYSTEM.	The smart health care provides updates the information of a patient to the care taker or doctor using IOT technology	2021
6.	ITIOT06	AN ENERGY EFFICIENT SMART METERING SYSTEM USING LORA NETWORK.	The energy efficient smart metering system helps usage of electricity lesser by monitoring the meter using Micro controller.	2021

7.	ITIOT07	IOT BASED SECURE USER AUTHENTICATION FOR SMART HOME	The smart use authentication system uses biometric for door lock mechanism which helps to improve the security of a home.	2021
8.	ITIOT08	WOMEN SAFETY SYSTEM WITH NERVE STIMULATOR USING IOT TECHNOLOGY	This proposed method of women safety helps the women to safe guard themselves from attackers and also attack the enemies using electrical shock generated by nerve stimulator.	2021
9.	ITIOT09	WATER QUALITY MONITOR AND AUTO FILL SYSTEM USING IOT	The sensors detects the quality of the water, if it's found to be good then the motor automatically fills the tank from the water in the sump. This process can be monitored through IOT.	2021
10.	ITIOT10	IOT-BASED COVID-19 PATIENT MONITORING SYSTEM.	The COVID 19 patient monitoring system helps to identify the symptoms related to COVID and update the health report to cloud using IOT.	2021
11.	ITIOT11	IOT-BASED WEATHER MONITORING USING ARDUINO.	The weather monitoring system helps to gather the information of environmental weather conditions	2021
12.	ITIOT12	VEHICLE ACCIDENT DETECTION AND MONITORING SYSTEM USING IOT.	The IOT based accident system is used to track the vehicle which is held at accident with the help of other vehicles communicated using zigbee.	2021
13.	ITIOT13	SMART BAG WITH OBJECT MONITORING AND ALERT SYSTEM	This system is used to monitor the objects that are being used by the user through rfid tags. This is completely powered by solar power and this bag can also send signals as alert in case of emergency.	2021
14.	ITIOT14	FOREST FIRE DETECTION AND ALERT SYSTEM USING LORA	This system is used to detect the fire in the forest using sensors and it also sends alert signals to the officials through Lora network. This can be used as detection and alert system.	2021
15.	ITIOT15	AUTOMATED WEATHER BASED SMART STREET LIGHT USING IOT	This system can be used to monitor and control the street lights using iot. This also alternates the intensity of lights when there is no movement of persons and vehicles.	2021

16.	ITIOT16	SEWAGE MONITORING SYSTEM	This system of sewage monitoring can be implemented in organizations where there is water scarcity, the system is used to reuse the water through various treatment process and the water quality is measured using sensors.	2021
17.	ITIOT17	PEDESTRIAN LANE CROSSING WITH MATLAB	This system is used to alert the pedestrians and directs them to cross the road. Through matlab image processing and sensors the presence of human or animal is identified.	2021

RFID

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
18.	ITRFID01	SMART SHOPPING TROLLEY BASED ON RFID	The smart trolley is used to provide easier shopping and payment which helps reduce the queue for payment process.	2021
19.	ITRFID02	IOT BASED SECURE VOTING SYSTEM WITH BIOMETRIC AUTHENTICATION	The secure voting system with biometric authentication provides secure polling and the data are monitored in cloud.	2021
20.	ITRFID03	CAR PARKING SLOT DETECTION USING SENSORS AND IOT	The car parking slot detection helps to easily identify the parking slot with the help of cloud and also based on time the amount is calculated.	2021
21.	ITRFID04	IMPLEMENTATION OF AN INTELLIGENT SURVEILLANCE SYSTEM.	The surveillance system helps to provide safer authentication for secure indoor places like house or bank safety locker etc. The MATLAB image processing is used to provide face authentication.	2021
22.	ITRFID05	TRAFFIC MONITORING FOR EMERGENCY VEHICLE USING RFID.	The traffic monitoring system helps to resolve the time delay whenever an emergency vehicle reaches near to the traffic signals. This provides quicker path to the emergency vehicles and also we can control the traffic light using traffic density.	2021
23.	ITRFID06	SMART ATM CARD FOR MULTIPLE BACK ACCOUNTS.	The smart ATM card for multiple bank accounts helps to use single card for accessing multiple bank accounts this helps to avoid	2021

			multiple ATM cards and unnecessary PIN numbers for each card. This method also implemented with biometric authentication for secure transaction.	
24.	ITRFID07	BUS TRACKING SYSTEM FOR ORGANIZATIONS	This system is used to track the bus location and alert the person about the location. Through rfid the arrival of the bus is noted and informed to the user.	2021
25.	ITRFID08	COIN BASED EV CHARGING STATION	This paper offers the improvement and validation of the charging station to be access easily using coin based architecture.	2021

LIGHT FIDELITY (LI-FI)

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
26.	ITLI01	LI-FI BASED INDUSTRIAL SAFETY MODULE.	The LIFI is the technology which helps to communicate using visible light communication and this method is implemented in passing the data's of industrial machinery details using LED light.	2021
27.	ITLI02	LI-FI BASED PATIENT MONITORING SYSTEM	The LIFI based patient monitoring helps to transmit the patient details securely to the doctors using LED lights.	2021
28.	ITLI03	VISIBLE LIGHT COMMUNICATIONS FOR VEHICLE MONITORING	The visible light communication is used in vehicle to transmit the data of the vehicle and driver parameters to the other vehicles which helps of avoiding night time accidents.	2021
29.	ITLI04	INDOOR NAVIGATION FOR BIND PEOPLE USING LI-FI	The LIFI can also be used for indoor navigation which continuously transmits the room number and the audio playback recorder helps to play the room name audio.	2021
30.	ITLI05	AUDIO TRANSMISSION USING VISIBLE LIGHT COMMUNICATION.	The LIFI can be used to transmit the audio signal using visible light communication; the audio is converted into binary form and is decoded using photo diode and LIFI receiver circuit.	2021

RSSI

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
31.	ITRSSI01	RSSI BASED AUTOMATIC LANE CLEARANCE FOR EMERGENCY.	The Received Signal Strength Indication is the method which used to match the strength of the RF signal; based on the signal strength the lane for emergency vehicle is cleared.	2021
32.	ITRSSI02	A SYSTEM FOR DETECTION AND TRACKING OF HUMAN MOVEMENTS USING RSSI	This method helps to detect any human movement near to the restricted places. The WIFI module is used to identify the signal strength.	2021
33.	ITRSSI03	SMART METHOD FOR TOLLGATE BILLING SYSTEM USING RSSI	The RSSI can be used in Tollgates; whenever a vehicle reaches near to the tollgate the amount is automatically debited. This method helps to reduce the timing.	2021
34.	ITRSSI04	CHILD MISSING ALERT SYSTEM FOR PARENT IN PUBLIC PLACES BY RSSI	The child missing alert helps to keep the children in nearer place in the crowded area. If the child moves to a longer range the device will alert the parents.	2021
35.	ITRSSI05	RSSI BASED SAND THEFT PREVENTION SYSTEM	The sand theft can be prevented by implanting the RSSI in to the vehicles. Whenever a vehicle enters violating rules the alarm is triggered and the sand theft can be avoided.	2021

ROBOTICS

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
36.	ITROB01	AN INTELLIGENT VEHICLE FOR MILITARY PURPOSE USING MATLAB.	The enemies are detected using MATLAB image processing which is helpful in battlefields. This robot can reduce the causalities and can be used in battlefield instead of humans.	2021
37.	ITROB02	DESIGN AND IMPLEMENTATION OF AN IOT BASED FIRE FIGHTING ROBOT.	This robot detects the fire through the sensors attached with it and acts accordingly to reduce the fire by pumping water or chemicals. It can also be used as an alternative to fire-fighters.	2021

38.	ITROB03	AN INTELLIGENT WHEELCHAIR WHEEL CHAIR WITH VOICE CONTROL.	The voice activated wheelchair helps the differently abled people to control the movement through commands. Various sensors attached to it can sense the obstacles and alerts the user accordingly.	2021
39.	ITROB04	SMART SOLAR AGRICULTURAL GRASS CUTTING ROBOT.	It uses renewable source of energy for the grass cutting mechanism and it can be controlled using Bluetooth. The user can control it through voice or text commands.	2021
40.	ITROB05	MEDICAL ASSIST FOR ISOLATED WARD PATIENT IN HOSPITALS.	This robot can be used in hospital wards where the infection rate is higher. The doctors can control the robots to supply medicines to the patients. This method reduces infection between patients and doctors.	2021
41.	ITROB06	WEB CONTROLLED RASPBERRY PI ROBOT FOR SURVEILLANCE.	This robot can be controlled through webpage for surveillance purpose. This uses raspberry pi for surveillance purpose.	2021
42.	ITROB07	TRAINED ROBOT IN CATERING BUSINESS	Through MATLAB the food is being identified by the robot by which it can directly serve the food to the table from which it is ordered.	2021
43.	ITROB08	MEMS BASED HAND GESTURE CONTROLLED WIRELESS ROBOT	The robot can be controlled by the gestures of the user. It uses MEMS sensor as a controller as the users commands processed by it.	2021

BIO MEDICAL

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
44.	ITBIO01	IOT BASED HEALTH MACHINE FOR COVID-19 WITH MATLAB	By Image processing (MATLAB) the patients' health is monitored in IOT by the CT imaging of the Covid patients. Infection rate can be reduced by this monitoring system.	2021
45.	ITBIO02	ULTRAVIOLET SANITIZATION BOX USING UV LED'S	This box is used as a Sanitization by ultraviolet rays with are not harmful when used in controlled situation. It can safeguard our daily essential objects from various diseases and infections.	2021

46.	ITBIO03	A PATIENT-SPECIFIC SLEEPING POSTURE RECOGNITION SYSTEM.	This project is used to determine the sleeping posture by pressure sensors. These information are monitored through IOT.	2021
47.	ITBIO04	PLATFORM FOR CARDIOVASCULAR DISEASE IDENTIFICATION AND ALERT SYSTEM.	Through MATLAB image processing the patient's heart is diagnosed for any cardio vascular disease and the patient can be treated accordingly. It also alerts if any abnormality occurs.	2021
48.	ITBIO05	SMART INFANT INCUBATOR MONITORING USING IOT.	It monitors the premature baby's health regularly. It alerts the doctors if there is any abnormality occurs. This helps in reducing the rate of loss of lives and it can be monitored using IOT.	2021
49.	ITBIO06	PORTABLE VENITILATOR USING ARDUINO	Portable ventilator system is used as a health monitoring system which can be used as both ventilator and health monitoring system. This measures the patients' health using sensors.	2021
50.	ITBIO07	EXERCISE MONITORING SYSTEM FOR KNEE OSTEOARTHRITIS PATIENTS	In this project to process the signal obtain from the accelerometers for exercise classification and detection of incorrect exercise movement	2021
51.	ITBIO08	SEATING POSTURE AND ALERT SYSTEM	This system is used to alert the user whether the user is being seated for a long time. This system also monitors the seating posture and intimates the user regarding the posture.	2021
52.	ITBIO09	AUTOMATIC PILL BOX WITH TIMELY ALERT SYSTEM	This medication pill box is focused on patients who frequently take medications or vitamin supplements, or attendants who deal with the more seasoned or patients.	2021
53.	ITBIO10	ATTENDANCE MONITORING SYSTEM WITH COVID PREVENTION MEASURES	This system is used in colleges for attendance monitoring of students and it also provides sanitization and checks the student's health through sensors.	2021
54.	ITBIO11	VERICOSE VEINS PATIENT MONITORING AND AUTOMATED TREATMENT	In this proposed model it detects the temperature deference between the normal part and the	2021

			varicose affected part and it gives automatic vibrations through motor.	

WIRELESS

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
55.	ITWI01	VOICE-ACTIVATED SMART HOME APPLIANCE CONTROLLER.	Home appliances can be controlled by voice commands of the user. As the devices are connected by IOT, the working of the appliances can be monitored and controlled through voice commands.	2021
56.	ITWI02	STUDENT AUTHENTICATION BASED ON BIOMETRICS TECHNOLOGY.	Biometric authentication is implemented for secure login by the student's. Regular update of the students can be communicated to their parents through GSM. This provides secure and regular updates about the students.	2021
57.	ITWI03	IN-VEHICLE TRUCK DRIVER FATIGUE AND DISTRACTION WARNING SYSTEM.	The driver drowsiness is automatically detected by the sensor. The driver status is monitored along with the vehicle parameters are diagnosed by MATLAB. An alert can be sent according to the data values to the driver.	2021
58.	ITWI04	SMART HOME MONITORING USING POWER LINE COMMUNICATION.	No separate cables for power and communication, this method reduces the cables, hence its cost. The devices and home appliances can be controlled using this method and can be managed through IoT.	2021
59.	ITWI05	ENHANCED COST-SENSITIVE BIOMETRIC AUTHENTICATION FOR BANK LOCKERS	Authentication follows a series of protocols (i.e., through keypad password, face unlocking and by fingerprint authentication). As this method is automatic the workforce requires is less and the user can easily access it without any difficulty. The face recognition is done with the help of MATLAB.	2021
60.	ITWI06	BUS TICKETING FOR MULTIPLE DESTINATION PUBLIC TRANSIT SETTINGS	The seat allocation is made with physical distancing according to the capacity of the vehicle. The tickets are booked through RFID and	2021

			Keypad and the allotted seat along with other information are sent through SMS to the user.	
61.	ITWI07	A REMOTE WATER MONITORING AND CONTROL SYSTEM USING IOT.	Water quality can be monitored and the same is managed through IoWT. The parameter of the water is regularly monitored and can help in deriving decision on water management through various sensor data's.	2021
62.	ITWI08	SMART HOME ENERGY CONSUMPTION AND MONITORING USING IOT.	Home appliances can be controlled automatically by detecting the presence of the user. As they are connected through IOT, they are controlled through it.IR sensor is used to detect the user in the room.	2021
63.	ITWI09	SMART RENEWABLE ENERGY MONITORING AND SWITCHING DEVICES FOR COMMERCIAL PLACES.	Renewable energy can be used when it is available (during day time) which can be monitored and used efficiently only when it is need which can be automatically controlled using IOT.	2021
64.	ITWI10	AUTOMATIC RAILWAY GATE CROSSING CONTROL AND TRACK CRACK DETECTION SYSTEM USING IOT.	By this project, we can monitor as well as control safety status of the crack in the railway tract as well as railway gate. The system which implement detection of crack on railway track and alerts accordingly.	2021
65.	ITWI11	MAN HOLE MONITORING USING ZIGBEE	Real time which alerts transmit the managing station when any manhole crosses its threshold values. This system reduces the death risk of manual scavengers who clean the underground drainage and also benefits the public.	2021
66.	ITWI12	SMART FLOOR THEFT ALERT SYSTEM	This system monitors the entire floor for movement, this system is secure flooring tile connected with iot when we go out of house, the system is to be turned on, then whoever comes inside the house it passes the information over iot.	2021
67.	ITWI13	SMART HELMET AND ALERT SYSTEM FOR VEHICLES	It depends on the safety of the user that the vehicle operates only when the helmet is worn by the rider and	2021

			it also alerts the user regarding the helmet.	

MECHANISM

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
68.	ITME01	A NEW DESIGN OF DUAL-AXIS SOLAR TRACKING SYSTEM WITH LDR SENSORS.	It implements solar tracking mechanism with the help of light dependent resistor. It is used to generate power through solar panel which can rotate in the direction of sun light to produce energy.	2021
69.	ITME02	AUTOMATIC WORK PIECE COUNTING USING ARDUINO	It implements automated object tracking and counting. A conveyor mechanism is used on which the objects move and the IR sensor is used to count the objects which can be controlled and managed through IOT.	2021
70.	ITME03	POOR QUALITY REJECTION USING AUTOMATIONS.	By this method the damaged object can be identified and rejected automatically. The identification is done through MATLAB image processing. This can be monitored and controlled through IOT.	2021
71.	ITME04	SMART GARBAGE MONITORING SYSTEM FOR WASTE MANAGEMENT	In our proposed system we are going to monitor the dustbin in real time and update the status of the dustbin. Also sort the type of waste comes in it with the metal detector.	2021
72.	ITME05	MAN-MACHINE INTERFACE FOR OBJECTS CONTROL USING MEMS.	It implements robot mechanisms which easily handle the object with more accuracy. The Man machine interface using MEMS provide the data by which the object can be handled and controlled.	2021
73.	ITME06	SMART CART ROBOT FOR SHOPPING USING IMAGE PROCESSING	It provides a user friendly machine to shop things with the help of MATLAB image processing. Bluetooth is implemented to access the machine. It also provides contactless shopping experience.	2021
74.	ITME07	CONSTRUCTION OF SMART LIBRARY SYSTEM BASED ON BOOK INFORMATION RETRIEVAL	The books in the library can be easily accessed with the help of robot mechanism. The RFID is used	2021

			to locate the books which can be easily retrieved from the library.	

RASPBERRY PI

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
75.	ITRPI01	SMART SECURITY DEVICE FOR WOMEN BASED ON IOT USING RASPBERRY PI.	The women safety is the important now a days. The pi is a standalone device which is connected to the cloud. Whenever an emergency button is pressed the pi send the information to the cloud.	2021
76.	ITRPI02	NUMBER PLATE DETECTION RECOGNITION BASED ON OPENCV.	In this method number plate of a vehicle is detected using OPENCV. The dataset images are used for identifying the vehicle numbers.	2021
77.	ITRPI03	MACHINE LEARNING BASED MECHANISM FOR CROWD IDENTIFICATION USING OPENCV.	The crowd size that is number of people in a particular area can be identified by using OPENCV and webcam and the details is updated to cloud.	2021
78.	ITRPI04	AN IOT-BASED FIRE DETECTOR USING RASPBERRY PI.	The fire safety is the important aspect in many places. The fire detection can be monitored by using raspberry pi and updates the information to the rescue team.	2021
79.	ITRPI05	DRIVER ASSISTANCE SYSTEM USING RASPBERRY PI.	The driver assistance system helps to monitor the driver and updates the data to the owner.	2021
80.	ITRPI06	IOT-BASED SMART HEALTH MONITORING SYSTEM.	The smart health monitoring system helps to identify the health parameters of a patient and intimates to the doctor.	2021
81.	ITRPI07	DEVELOPMENT OF A VOICE-CONTROLLED INTELLIGENT WHEELCHAIR SYSTEM USING RASPBERRY PI.	The voice controlled wheel chair helps the patient to control the wheel chair using voice commands.	2021
82.	ITRPI08	IOT BASED RASPBERRY PI DOG FEEDING	It is used to feed the dog based on the time interval using raspberry pi. It also has the feeding mechanism to feed the dog. Raspberry pi is used to monitor the information in iot.	2021
83.	ITRPI09	OBJECT DETECTION USING TENSOR FLOW.	This technique is useful for tracking people at a crosswalk, tracking faces for facial recognition, looking for obstacles in a self-driving car,	2021

			and helping robots identify objects it can manipulate.	
84.	ITRPI10	GAS LEAKAGE WITH AGE DETECTION USING RASPBERRY PI	Gas leakage is a major problem with industrial sector. One of the preventive methods to stop accident associated with the gas leakage is to install gas leakage detection kit at vulnerable places.	2021

AGRICULTURE

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
85.	ITAGRI01	A SENSOR BASED IOT FOR PRECISION AGRICULTURE.	The agriculture field is automated using sensors. This method helps the farmers to monitor their field area. The pump is automatically switched according to the soil moisture and the rain sensor values.	2021
86.	ITAGRI02	AN IOT BASED SMART GREENHOUSE FOR SUSTAINABLE AGRICULTURE.	In Greenhouse environment the crops are to be monitored regularly, so various sensors are implemented to monitor the crops and automatic supply of water to them is provided through the data's from the sensors. The overall process is monitored through IOT.	2021
87.	ITAGRI03	IOT BASED PATTERN RECOGNITION FOR CROP DISEASE MONITORING SYSTEM.	Through MATLAB image processing the disease in the crops are diagnosed and corresponding pesticides are pumped according to the data values .This can be controlled using IOT.	2021
88.	ITAGRI04	ONLINE WATER QUALITY MONITORING SYSTEM USING IOT	The water quality is monitored automated using sensors. This method helps to farmers to monitor their water bodies like well, sump, etc. The waters pH, turbidity can be monitored by this method.	2021
89.	ITAGRI05	MONITORING AGRICULTURE FIELD USING INTERNET OF THINGS.	The agriculture field is automated using sensors and using Image processing technique to monitor the soil and water levels by which the farmers can plan their cultivation. This can also help in the detection of diseases and this overall process is managed and controlled by IOT.	2021

90.	ITAGRI06	AUTOMATED SMART SERICULTURE BASED ON IOT AND IMAGE PROCESSING	This system is used to monitor the worm condition using matlab. The sensors are used to detect the environmental condition like temperature where the worm is present. Information's are updated in iot.	2021

MATLAB-IMAGE PROCESSING

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
1.	ITIMP01	CONCEPTUAL OF THE HEPATIC TRANSPLANATION SYSTEMS USING IMAGE PROCESSING TECHNIQUES	Liver transplantation is the replacement of a diseased liver with the healthy liver from another person. Liver transplantation is a treatment option for end-stage liver disease and acute liver failure, although availability of donor organs.	2021
2.	ITIMP02	ACCURATE DETECTION AND RECOGNITION OF GLAUCOMA	A group of eye conditions that can cause blindness.	2021
3.	ITIMP03	HEART DISEASE PREDICTION USING DEEP LEARNING	HEART DISEASE DETECTION: Enhanced Deep learning assisted Convolutional Neural Network (CNN) has been proposed to assist and improve patient prognostics of heart disease.	2021
4.	ITIMP04	LIVER TUMOR DETECTION USING FULLY CONVOLUTIONAL NEURAL NETWORK BASED ON DEEP LEARNING FRAMEWORK	Fully Convolutional Neural Network (FCNN) has been classified for liver tumor segmentation, which has been modeled mathematically to resolve the current issue of liver tumor.	2021
5.	ITIMP05	CARDIO VASCULAR DISEASE PREDICATION AND DETECTION USING MACHINE LEARNING	The main focus of this paper is to develop a basic machine learning model to enhance the diagnosis of the heart condition in the right manner.	2021
6.	ITIMP06	KIDNEY STONE DETECTION WITH CT IMAGES USING CONVOLUTIONAL NEURAL NETWORK	To investigate the diagnostic accuracy of cascading convolutional neural network	2021

			(CNN) for urinary stone detection on unenhanced CT images and to evaluate the performance of pertained models enriched with labelled CT images across different scanners.	
7.	ITIMP07	IMAGE PROCESSING BASED SMART SERICULTURE USING CONVOLUTIONAL NEURAL NETWORK	The Objective is to detect and monitor healthy and unhealthy silkworms by capturing its image using image processing and MATLAB tool	2021
8.	ITIMP08	CONVOLUTIONAL NEURAL NETWORK USING BRAIN TUMOR DETECTION	Diagnosing a brain tumor usually undergoes a very complicated and time consuming process. The MRI images of various patients at various stages can be used for the detection of tumors.	2021
9.	ITIMP09	FABRIC DEFECTS CLASSIFICATION USING MACHINE LEARNING	A novel algorithm that uses supervised learning to classify textile textures in defect and non-defect classes based on suitable feature extraction and classification.	2021
10.	ITIMP10	MR IMAGE CLASSIFICATION USING CNN BREAST CANCER DETECTION	Breast cancer is one the most critical disease and suffered many people around the world. The efficient and correct detection of breast cancer is still needed to ensure this medical issue In this study, Due to the high performance we the diagnosis of breast cancer and its types.	2021
11.	ITIMP11	MR IMAGE CLASSIFICATION AND SEGMENTATION USING CNN LUNG CANCER DETECTION	Lung cancer (LC) is one of the most serious cancers threatening human health. For the current problem of diagnosis the lung cancer this study included samples for the method based on histopathological images of CT, lungs and predicts the stages of lung cancer.	2021
12.	ITIMP12	IMAGE CLASSIFICATION BASED ON MACHINE LEARNING SYSTEM TO DETECT COVID-19 DETECTION	Coronavirus Disease 2019 (COVID-19) has become a major health problem causing severe acute respiratory illness in humans. It has spread rapidly around the globe.	2021

13.	ITIMP13	FACIAL EXPRESSION RECOGNITION USING CONVOLUTIONAL NEURAL NETWORK WITH NOISY DATA	The cascade object detector uses the Viola-Jones algorithm to detect people's faces, noses, eyes, mouth, or upper body. You can also use the Image Labeler to train a custom classifier to use with this System object. ... To detect facial features or upper body in an image: Create the vision.	2021
14.	ITIMP14	IRIS RECOGNITION BIOMETRIC USING CONVOLUTIONAL NEURAL NETWORK	Iris recognition is a biometric recognition technology that utilizes the pattern recognition techniques based on the high quality images of iris. ... In this research paper, we have presented the simulation results of the biometric image processing algorithm that we have developed for the iris recognition system.	2021
15.	ITIMP15	DEEP CONVOLUTIONAL NEURAL NETWORKS FOR TO IDENTIFY THE HUMAN SIGNATURE VERIFICATION	Signature Recognition is the procedure of determining to whom a particular signature belongs to. Among the different forms of biometric recognition systems such as fingerprint, iris, face, voice, palm etc. signature will be most widely used.	2021
16.	ITIMP16	OWNERSHIP CLASSIFICATION VERIFICATION USING FACIAL IMAGES	An ownership verification approach verified all the co-owners with a secret sharing. It pointed out this extension reduces the scheme security and image quality also. This Ownership scheme was also extended to confirm partial ownership watermarks.	2021
17.	ITIMP17	DESIGN OF BIOMETRIC RECOGNITION SOFTWARE BASED ON IMAGE PROCESSING	To preserve certain visual features in images and hide all other information, to balance privacy and usability in the context of cloud-based image storage services. We introduce a special case of format-TPE preserving encryption.	2021
18.	ITIMP18	FACE MASK DETECTION USING TRANSFER LEARNING	This research aims to use transfer learning to automatically detect face masks. The first component is designed for face detection and	2021

			tracking transfer learning to identify the mask area.	
19.	ITIMP19	DETECTION OF POTHOLES USING CONVOLUTIONAL NEURAL NETWORK.	In the classified result of pothole detected or not image. Hence the complexity and computation time is low and accuracy is high. The Objective is to detect potholes by capturing its image using image processing and MATLAB tool	2021
20.	ITIMP20	SALIENT OBJECT DETECTION USING MACHINE LEARNING	RGB Salient object detection is a task-based on a visual attention mechanism, in which algorithms aim to explore objects or regions more attentive than the surrounding areas on the scene or RGB images.	2021
21.	ITIMP21	TRAFFIC FLOW PREDICTION FOR ROAD TRANSPORTATION NETWORKS	Traffic estimation and prediction system has the ability to reduce traffic congestion and improve road capacity effectively.	2021
22.	ITIMP22	IMAGE FOGGY AND SUNNY ENHANCEMENT USING IMAGE PROCESSING TECHNIQUE	Image based fog and sunny detection and visibility estimation for driving assistance systems. After detecting the presence of fog in the image and based on the fog's density we are able to compute the visibility distance and inform the driver about the environment's weather conditions.	2021
23.	ITIMP23	DISCRETE WAVELET TRANSFORM-BASED OIL PALM TREE DETECTION USING VERY-HIGH-RESOLUTION (VHR) SATELLITE IMAGES	In order to obtain this information, an approach for palm tree detection using high resolution satellite images is proposed. This approach makes it possible to count the number of oil palm trees in a plantation. The index having highest discriminating power is then used as the primary feature for palm tree detection.	2021
24.	ITIMP24	UNDERWATER IMAGE ENHANCEMENT BASED ON IMAGE REDUCE HAZING ALGORITHM	Underwater Image Co-Enhancement with Correlation Feature Matching and Joint Learning. Considering that images photographed in the same underwater scene usually share similar degradation, related images can provide rich complementary	2021

			information for each other's enhancement.	
25.	ITIMP25	CONVOLUTIONAL NEURAL NETWORK BASED VIDEO FIRE IDENTIFICATION USING MACHNE LEARNING	Fire Detection Using Image Processing Techniques with Convolutional Neural Networks. ... In this paper, an image-based fire alarm system is designed, using a laptop and webcam as the main equipment. The method for using Convolutional Neural Networks (CNN) to identify fire.	2021
26.	ITIMP26	A NEW IMAGE SEQUENCE HAZE REMOVEL SYSTEM BASED ON IMAGE PROCESSING TECHNIQUES	The quality of an image is generally affected by haze. To obtain a well-quality image we are going to remove haze using different technique.	2021
27.	ITIMP27	PLANT LEAF DISEASE DETECTION USING CONVOLUTIONAL NEURAL NETWORK	Disease detection involves the steps like image acquisition, image pre-processing, image segmentation, feature extraction and classification. This paper discussed the methods used for the detection of plant diseases using their leaves images.	2021
28.	ITIMP28	FRUIT DISEASE DETECTION AND VITAMIN ANALYSIS USING CONVOLUTIONAL NEURAL NETWORK.	This paper proposed a fruit disease detection and vitamin analysis using convolutional neural network. We detect the disease in the fruit and then show what type of vitamins the fruit have.	2021
29.	ITIMP29	SIGN LANGUAGE USING MACHINE LEARNING	A machine learning model that will be able to classify the various hand gestures used for fingerspelling in sign language. In this user independent model, classification machine learning algorithms are trained using a set of image data and testing is done on a completely different set of data.	2021
30.	ITIMP30	SOMATIC CELL DETECTION USING MACHINE LEARNING	Bovine mastitis is one of the most important economic and health issues in dairy farms. Data collection during routine recording procedures and access to large datasets have shed the light on the possibility to use trained machine learning algorithms to predict the	2021

			udder health status of cows. The aim is to predict udder health status of cows based on somatic cell counts.	
31.	ITIMP31	BLOOD CANCER DETECTION USING DEEP LEARNING	The purpose of this project is to develop a system that can automatically detect cancer from the blood cell images. This system uses a convolution network that inputs a blood cell images and outputs whether the cell is infected with cancer or not.	2021
32.	ITIMP32	HUMAN DETECTION IN HILLS USING DEEP LEARNING	Human detection plays an important role in various real life applications. we utilize feature learning methods, CNN feature extractor for human detection	2021
33.	ITIMP33	DETECTION AND CLASSIFICATION OF PERIAPICAL DENTAL X-RAY IMAGES BY APPLYING IMAGE PROCESSING TECHNIQUES	Proposed an automatic method for the segmentation of dental X-ray images of teeth for the diagnosis of anomalies based on the shape of the segmented teeth.	2021
34.	ITIMP34	AGE AND GENDER CLASSIFICATION USING MATLAB IMAGE PROCESSING	Proposed a CNN approach, to achieve robust age group and gender classification of faces.	2021
35.	ITIMP35	SPEECH EMOTION RECOGNITION USING MACHINE LEARNING	Speech emotion recognition is one of the popular topics in the world. Many researchers are engaged in developing systems to recognize different emotions from human speech. We have stated the basic of speech emotion recognition system in security proposes also.	2021
36.	ITIMP36	ORAL CANCER DETECTION USING CONVOLUTIONAL NEURAL NETWORK	Enabling automation in the identification of potentially malignant and malignant lesions in the oral cavity would potentially lead to low-cost and early diagnosis of the disease.	2021

POWER ELECTRONICS

RENEWABLE ENERGY

CYCLOCONVERTER

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
1.	ITPW01	A NOVEL MATRIX CONVERTER MODULATION WITH REDUCED NUMBER OF COMMUTATIONS	The matrix converter is an AC/AC converter constituted by an array of controlled bidirectional semiconductor switches that connects directly three-phase source to a three-phase load.	2021
2.	ITPW02	LOW MOSFET COUNT ISOLATED DC–AC CONVERTER	The proposed single-stage dc–ac converter topology is shown. It consists of a half bridge at the dc side and a low MOSFET count cycloconverter at the ac side. These units are isolated through two transformers each rated for half of the power rating.	2021

DC-DC CONVERTER

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
3.	ITPW03	A NON ISOLATED SOFT SWITCHING INTERLEAVED CONVERTER WITH EXTENDED DUTY CYCLE AND LOW OUTPUT CURRENT RIPPLE	Two novel ultra-high step-down interleaved converters combining by coupled inductors and series capacitors, the voltage conversion ratio is improved significantly.	2021
4.	ITPW04	A NOVEL FULL SOFT-SWITCHING HIGH-GAIN DC/DC CONVERTER BASED ON THREE-WINDING COUPLED INDUCTOR	The equivalent circuit of the proposed converter is composed of a TWCI, a single power switch, an input inductor, four diodes, and five capacitors to get the high voltage at single stage.	2021
5.	ITPW05	ZERO-VOLTAGE TRANSITION NON ISOLATED BIDIRECTIONAL BUCK–BOOST DC–DC CONVERTER WITH COUPLED INDUCTORS	This work proposes a new non isolated BDC with the ZVT condition that can be operated in buck and boost modes. The suggested topology has a simple structure with high efficiency in both modes.	2021

6.	ITPW06	A DUAL ACTIVE CLAMP DC–DC CONVERTER WITH HIGH VOLTAGE GAIN	The active clamps' switches turn ON and OFF under zero-current switching (ZCS). In addition, the main switch turns ON under ZCS condition as well. Therefore, switching losses are significantly reduced.	2021
7.	ITPW07	A RECONFIGURABLE BIDIRECTIONAL ISOLATED LLC RESONANT CONVERTER FOR ULTRA-WIDE VOLTAGE-GAIN RANGE APPLICATIONS	A new bidirectional isolated LLC resonant converter without adding extra switches and resonant components is proposed for ultra-wide voltage-gain range operation in this work.	2021
8.	ITPW08	HYBRID HIGH VOLTAGE GAIN TRANSFORMERLESS DC-DC CONVERTER	The placed position of the components of the proposed converter is an important feature to decrease their current and voltage stress, increase their voltage gain, and also maintain the simplicity of operation.	2021
9.	ITPW09	ULTRAHIGH STEP-UP DC-DC CONVERTER COMPOSED OF TWO STAGES BOOST CONVERTER, COUPLED INDUCTOR AND MULTIPLIER CELL	The proposed converter is composed of two stages boost converter, a multiplier cell and a clamp circuit. Furthermore, a shared coupled inductor is utilized between the second boost stage and the multiplier cell. The two stages increase voltage gain similar to quadratic boost converter.	2021

ENERGY MANAGEMENT & ELECTRIC VEHICLE

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
10.	ITPW10	A NOVEL THREE-LEVEL CLLC RESONANT DC–DC CONVERTER FOR BIDIRECTIONAL EV CHARGER IN DC MICRO GRIDS	The proposed three-level CLLC resonant converter. It consists of two three-level full bridges, an intermediate frequency transformer, two resonant inductors, and two resonant capacitors.Lr1 andLr2 represents the sum of the resonant inductance and the transformer leakage inductance in the primary side and the secondary side, respectively.	2021
11.	ITPW11	A WIDE RANGE UNIDIRECTIONAL ISOLATED DC-DC CONVERTER FOR FUEL CELL ELECTRIC VEHICLES	A wide voltage range step up isolated dc/dc converter for fuel-cell electric vehicles was proposed	2021

			in this article to satisfy the voltage requirements from both fuel cell and battery system in the automotive application as well as provide reliable galvanic isolation.	
12.	ITPW12	POWER FACTOR PRE REGULATION IN INTERLEAVED LUO CONVERTER-FED ELECTRIC VEHICLE BATTERY CHARGER	An I-Luo converter cascaded by an isolated converter for EV charging is designed for PF pre regulation at mains at steady state and at sudden varying range of operating voltages. The EV charger with interleaving technique reduces the switch current stress and input as well as output side ripples.	2021
13.	ITPW13	A HIGH-EFFICIENCY ZVS WIRELESS POWER TRANSFER SYSTEM FOR ELECTRIC VEHICLE CHARGING WITH VARIABLE ANGLE PHASE SHIFT CONTROL	Tight current/voltage regulation and high efficiency are the fundamental objectives of wireless power transfer systems (WPTSs) for electric vehicle (EV) chargers. To achieve high efficiency and minimize electromagnetic interference, it is necessary to ensure zero-voltage switching	2021
14.	ITPW14	IMPROVED POWER QUALITY TRANSFORMERLESS SINGLE-STAGE BRIDGELESS CONVERTER BASED CHARGER FOR LIGHT ELECTRIC VEHICLES	This configuration implements a single-phase single-stage transformer less ac–dc converter for the LEVs charging application with additional high step-down gain capabilities and improved power quality performances at the supply side.	2021
15.	ITPW15	MULTIPHASE INTERLEAVED BIDIRECTIONAL DC/DC CONVERTER WITH COUPLED INDUCTOR FOR ELECTRIFIED-VEHICLE APPLICATIONS	A multiphase interleaved bidirectional dc/dc converter utilizing a CI is presented with high power-density capability. Theoretical analysis was described in each operation mode, including output characteristics. Moreover, the comparison with concurrent solutions, a simplified design example, and the mains parameters were addressed.	2021

FOURTH ORDER CONVERTER				
S.N	**P.CODE**	**PROJECT TITLE**	**DESCRIPTION**	**IEEE YEAR**
16.	ITPW16	SOFT-SWITCHING HIGH STATIC GAIN MODIFIED SEPIC CONVERTER	A ZVS soft-switching technique applied to the Modified SEPIC dc-dc converter is presented in this work. The inclusion of an auxiliary switch can ensure the soft-switching operation in all output power range. The proposed technique can be extended to others very high static gain structures and ac-dc applications based on the Modified SEPIC converter.	2021
17.	ITPW17	A NEW PUSH-PULL DC/DC CONVERTER TOPOLOGY WITH COMPLEMENTARY ACTIVE CLAMPED	Natural soft-switching push-pull DC/DC converter topology with complementary active clamped is proposed in this letter. The energy stored in the leakage inductor is absorbed by the clamping capacitor after the switch is turned off, and the switches actively clamp each other by this capacitor.	2021
18.	ITPW18	GAN-BASED ZVS BRIDGELESS DUAL-SEPIC PFC RECTIFIER WITH INTEGRATED INDUCTORS	All the inductors, including one input inductor and two output inductors, have been integrated into the E-I-E core, reducing the total ferrite volume and making the converter more compact. The inductance design and magnetic modeling for the coupled inductor have been analyzed.	2021
MULTI LEVEL INVERTER				
S.N	**P.CODE**	**PROJECT TITLE**	**DESCRIPTION**	**IEEE YEAR**
19.	ITPW19	A 7-LEVEL SWITCHED CAPACITOR MULTILEVEL INVERTER WITH REDUCED SWITCHES AND VOLTAGE STRESSES	In this paper, a novel 7-level switched capacitor multilevel inverter has been proposed for renewable energy conversion. It has inherent capacitor voltage balancing and boosting abilities. It does not require an H-bridge circuit for polarity generation at the load end.	2021

20.	ITPW20	A HIGH STEP-UP SWITCHED-CAPACITOR 13-LEVEL INVERTER WITH REDUCED NUMBER OF SWITCHES	The proposed 13LSCI. It consists of one dc source, three capacitors, one diode, and only 14 power switches. The 13LSCI topology can generate up to 13 voltage levels, and the number of output levels can be further expanded by connecting multiple (N) modules in series.	2021
MULTI PORT CONVERTER				
S.N	**P.CODE**	**PROJECT TITLE**	**DESCRIPTION**	**IEEE YEAR**
21.	ITPW21	A DOUBLE-INTEGRAL SLIDING MODE-BASED HYBRID CONTROL FOR A SINGLE-INPUT-MULTIPLE-OUTPUT BUCK CONVERTER	This is the first article to design a feedback control for the hybrid SIMO buck converter. The idea of using DISMHC with the hierarchical structure to control those types of hybrid SC-based converters has never been reported. Another verification of superior dynamic performance of SMC over linear control.	2021
22.	ITPW22	TWO-MODE CONTROLLED SINGLE/DUAL-INPUT DC–AC INVERTER WITH WIDE-RANGE DC INPUT	The proposed TMCSI, which consists of n T-networks and a full-bridge inverter. The more the number of T-network is, the higher the voltage gain, i.e., the lower input voltage that the inverter can have.	2021
23.	ITPW23	MAXIMIZING RIPPLE CANCELLATION IN INPUT CURRENT FOR SIDO BOOST CONVERTER BY DESIGN OF COUPLED INDUCTORS	This paper proposes a method to design the coupled inductors to achieve maximum ripple cancellation. The coupled inductors are proposed to be designed in sectors 5A, 5B, or 5C, and 5D, depending on whether the sum of duty ratios for two boost converter is less than one or equal to one or greater than one, respectively	2021
24.	ITPW24	AN INTERLEAVED BOOST AND DUAL ACTIVE BRIDGE-BASED SINGLE-STAGE THREE-PORT DC–DC–AC	The proposed converter is primarily based on the dual active bridge topology where the secondary bridge is composed of four quadrant bidirectional	2021

		CONVERTER WITH SINE PWM MODULATION	switches, which allows it to be directly connected to an ac port. The primary bridge can also be used as an interleaved bidirectional boost converter by connecting two inductors across the transformer primary, which forms an additional input DC port.	
25.	ITPW25	AN INTERLINKING CONVERTER FOR RENEWABLE ENERGY INTEGRATION INTO HYBRID GRIDS	The general concept of the proposed interlinking converter architecture for hybrid grids, the converter has two dc ports and one ac port, where the low-voltage dc (DCL) side can be PV panels, batteries, or other RESs, and the high-voltage dc(DCH) side can be connected to a dc grid or loads (also storages).	2021

RENEWABLE ENERGY

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
26.	ITPW26	PREDICTIVE HIERARCHICAL CONTROL OF POWER FLOW IN LARGE-SCALE PV MICRO GRIDS WITH ENERGY STORAGE	A hierarchical predictive controller is proposed for a large scale PV microgrid to increase utilization of available PV resources, reduce the variability of power flow between the microgrid and the main grid, and control power flow fluctuations at the point of connection.	2021
27.	ITPW27	A MULTIPORT BIDIRECTIONAL DC–DC CONVERTER FOR HYBRID RENEWABLE ENERGY SYSTEM INTEGRATION	The contribution of this article is to propose a new bidirectional four-port dc–dc converter for hybrid energy system integration with the least number of switches, i.e., six. The proposed converter has two bidirectional ports for the battery and the dc link. The battery not only can supply the power to the microgrid but also can be charged by both energy sources and the dc microgrid.	2021

RESONANT CONVERTER				
S.N	**P.CODE**	**PROJECT TITLE**	**DESCRIPTION**	**IEEE YEAR**
28.	ITPW28	MODULAR ISOLATED LLC DC/DC CONVERSION SYSTEM FOR OFFSHORE WIND FARM COLLECTION AND INTEGRATION	In this work, an offshore wind farm with all dc collection and transmission system has been presented. A modular isolated DC/DC converter is proposed to boost the MVDC voltage to transmission level while also realizing the MPPT of the wind generators.	2021
29.	ITPW29	RESONANT LLC DC–DC CONVERTER EMPLOYING FIXED SWITCHING FREQUENCY BASED ON DUAL-TRANSFORMER WITH WIDE INPUT-VOLTAGE RANGE	To improve the performance of LLC resonant dc–dc converter in a wide input-voltage range, a fixed-frequency LLC resonant converter using two transformers is proposed in this work. The topology of the proposed converter is a combination of a half bridge (HB) and an FBLLC converter sharing one leg. Thus, only four active switches are needed.	2021
VSI				
S.N	**P.CODE**	**PROJECT TITLE**	**DESCRIPTION**	**IEEE YEAR**
30.	ITPW30	HIGH GAIN DC-AC HIGH-FREQUENCY LINK INVERTER WITH IMPROVED QUASI-RESONANT MODULATION	A sine-wave inverter for low voltage DC sources realized with the high gain HF-link inverter topology. The approaches described allow for the realization of the inverter featuring a high turn's ratio transformer with a low value of leakage inductance that is based on standard components.	2021
31.	ITPW31	THREE-PHASE TO SINGLE-PHASE MULTI RESONANT DIRECT AC–AC CONVERTER FOR METAL HARDENING HIGH-FREQUENCY INDUCTION HEATING APPLICATIONS	Three sets of bidirectional switches operate under the two phase modulation, and achieve soft switching over the wide range of source voltage without any dc-link large-volume capacitor.	2021

POWER SYSTEMS

S.N	P.CODE	PROJECT TITLE	DESCRIPTION	IEEE YEAR
1.	ITPS01	A NEW PV-OPEN-UPQC CONFIGURATION FOR VOLTAGE SENSITIVE LOADS UTILIZING NOVEL ADAPTIVE CONTROLLERS	In this article, the development and implementation of proposed PV-O-UPQC was carried out. The focus was for improvement of the power quality in presence of various voltage quality issues along with elimination of current quality issues.	2021
2.	ITPS02	AN IMPROVED FAULT RIDE THROUGH SCHEME AND CONTROL STRATEGY FOR DFIG-BASED WIND ENERGY SYSTEMS	This paper proposed an improved fault ride through scheme for DFIG-based wind energy systems. The design integrates the robustness properties of sliding mode control with the active/ reactive power control capability of DVR and instantaneous power availability of SMES.	2021
3.	ITPS03	AN IMPROVED FAULT-TOLERANT CONTROL SCHEME FOR CASCADED H-BRIDGE STATCOM WITH HIGHER ATTAINABLE BALANCED LINE-TO-LINE VOLTAGES	In order to improve the attainable line-to-line voltages under SM faults, this article proposes an improved fault-tolerant control method, especially for CHB STATCOM application.	2021