



Sri SAI RAM INSTITUTE O

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Sai Leo Nagar, West Tambaram, Chennai - 6

DEPARTMENT O

<u>S.No</u>	Team No	Registration No	Student Name	Domain(SIG)
1	1	412420243003	Aditya Gurjale s	Artificial Intelligence - Society based
2		412420243021	Mithunesh Rajan A	
3		412420243003	Hemanth Kumar C S	
4	2	412420243001	Aaradhyanidhi Aiyer	Machine Learning - Data analytics,Exploratory Data Analysis
5	3	412420243002	Abinayasri M	MACHINE LEARNING
6		412420243031	Reesman A	
7		412420243047	Yazhini R	
8	4	412420243008	Aswini	Machine Learning
9		412420243005	Amudhini	
10		412420243004	Akash G	

11	5	412420243006	Arunmozhiselvam B	Machine Learning
12		412420243033	Sai Aravind A	
13	6	412420243007	Assa	Artificial intelligence
14		412420243030	Reena	
15	7	412420243010	Devika A	MACHINE LEARNING
16		412420243038	Sreeranjani S	
17	8	412420243011	Dharshini KR	ARTIFICIAL INTELLIGENCE
18		412420243043	Teja SU	
19		412420243025	Pavithra.Y	
20	9	412420243012	Dheepan Babu V	MACHINE LEARNING
21		412420243044	Thiyagarajan S	
22		412420243037	Sibhihasan R	
23	10	412420243009	Danya shri chandrasekaran	Machine learning
24	11	412420243013	Gokulakrishan D	MACHINE LEARNING
25		412420243029	Ram surya	
26		412420243036	Santhosh	
27	12	412420243014	Harshini	ARTIFICIAL INTELLIGENCE

28	13	412420243027	Radha rukman	Machine Learning
29		412420243045	Vedhagiri A	
30	14	412420243028	Ragavaprasad S	Block chain Technology
31		412420243022	Mothish Sai	
32	15	412420243032	Reshma Refina Khan.A	LANGUAGE PROCESSING USING PYTHON (artificial intelligence)
33	16	412420243042	Supriya	Machine Learning
34		412420243019	Meenaloshini E	
35	17	412420243041	Sriram J	ARTIFICIAL INTELLIGENCE
36		412420243046	Vikash G	
37		412420243017	Kishore M	
38	18	412420243035	Sanjay dilip	Internet of Thing,electrical or electronics
39		412420243026	Purushothaman	
40	19	412420243039	Sridhar V	DEEP LEARNING
41		412420243023	Nebo eley azer abinadap J	
42	20	412420243034	Sakthi meenakshi	Radar and passive localizing
43	21	412420243016	Keerthi U	Machine Learning - Data analytics,Exploratory Data Analysis

44	22	412420243040	Srinidhi C S	Artificial intelligence
45		412420243024	Nithisya sree C J	
46		412420243018	Mahitha B	
47	23	412420243020	Megha	Big data analytics

AI TECHNOLOGY

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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

LIVE-IN LAB

TITLE	PROJECT ID	SDG NO	SDG NAME
Face Recognition and Biometrics in PDS	SIT24ADTE301	8	Decent work and Economic growth
DIAGNOSIS AND PREDICTION OF HEART DISEASE	SIT24ADTE302	3	Good Health and Well being
PREDICTION OF CHRONIC KIDNEY DISEASE	SIT24ADTE303	3	Good Health and Well being
VISUAL MERCHANDISING	SIT24ADTE304	9	Industry, Innovation and Infrastructure

VOICE BASED E-MAIL	SIT24ADTE305	9	Industry, Innovation and Infrastructure
Object Detection	SIT24ADTE306	10	Reduced Inequalities
HANDWRITTEN CHARACTER RECOGNITION	SIT24ADTE307	9	Industry, Innovation and Infrastructure
HANDS-ON ROBOTIC ARM	SIT24ADTE308	9	Industry, Innovation and Infrastructure
CREDIT CARD FRAUD DETECTION	SIT24ADTE309	8	Decent work and Economic growth
VIRTUAL MEDICAL ASSISTANT	SIT24ADTE310	3	Good Health and Well being
FACE MASK RECOGNITION	SIT24ADTE311	3	Good Health and Well being
AI THE CARE TAKER	SIT24ADTE312	3	Good Health and Well being

SIGN LANGUAGE DETECTION	SIT24ADTE313	8	Decent work and Economic growth
BLOCKCHAIN BASED VOTING SYSTEM	SIT24ADTE314	9	Industry, Innovation and Infrastructure
TEXT TO SPEECH AND SPEECH TO TEXT RECOGNITION AND CONVERSION FOR PHYSICALLY IMPAIRED PEOPLE.	SIT24ADTE315	3	Good Health and Well being
Say no to alcoholism	SIT24ADTE316	3	Good Health and Well being
ANPR for high speed traffic	SIT24ADTE317	9	Industry, Innovation and Infrastructure
TEMPERATURE DISPLAY FOR WEATHER REPORT	SIT24ADTE318	13	Climate action
DRIVER DROWSINESS DETECTION SYSTEM	SIT24ADTE319	3	Good Health and Well being
TECH ORIGIN TO PEACE	SIT24ADTE320	14	Peace Justice and Strong Institution
TO-GRO LIST:GROCERY LIST PREDICTION SYSTEM	SIT24ADTE321	12	Responsible consumption and production

SMART HOME SENSOR	SIT24ADTE322	2	Zero Hunger
APP FOR DIET CUSTOMIZATION ACCORDING TO ALLERGIES	SIT24ADTE323	3 and 8	

INTERNAL GUIDE	EXTERNAL GUIDE	PROJECT COORDINATOR
Dr.M.Priya		
J.Jeyaganesan		
Dr.M.Priya		
S.Keerthana		

A.Sathiya		
Dr.M.Priya		
S.Keerthana		
A.Sathiya		
A.Sathiya		
A.Sathiya		
J.Jeyaganesan		
A.Sathiya		

S.Keerthana		
S.Keerthana		
J.Jeyaganesan		
J.Jeyaganesan		
Dr.M.Priya		
S.Keerthana		
J.Jeyaganesan		
S.Keerthana		
Dr.M.Priya		

A.Sathiya		
J.Jeyaganesan		



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DEPARTMENT OF COMPUTER AND COMMUNICATION AND ENGINEERING

LIVE IN LAB 1 - LIST OF PROJECT SDG WISE ALLOCATION

SEM: III

SDG 2: ZERO HUNGER				
Total Number of Batch:1				
SIT24CCTE30108	412420118008	DHARSHIKA M	FOOD DONATION	MOBILE APPLICATION
	412420118013	GAYATHRI L		
	412420118043	THANUSHRI T		
SDG 3: Good Health and Well-being				
Total Number of Batch:2				
SIT24CCTE30109	412420118009	DHIVYA S	Retinal tumor detector	MACHINE LEARNING
	412420118030	PORKODI ANDAL R		
SIT24CCTE30114	412420118017	JAYAPRAKADEESH P.G.	Real Time Facemask Detection	MACHINE LEARNING
	412420118019	JEEVA R R		
	412420118041	SUKEESHWARAN B		
SDG 4: Quality Education				
Total Number of Batch:2				
SIT24CCTE30112	412420118014	GURUPRASATH R	EBOOK WITH NEWS	WEB DEVELOPMENT
	412420118039	SHANMUGABALAN V		
	412420118047	VIGNESH L		
SIT24CCTE30116	412420118024	LAVANYA K P	Sakura spiel	WEB DEVELOPMENT
	412420118025	MADHUMITHA M		
	412420118038	SEETHALAKSHMI S		
SDG 7: Affordable and Clean Energy				
Total Number of Batch:1				
SIT24CCTE30105	412420118021	KARTHIK B	Solar Panel Monitoring System	Internet of Things
	412420118032	RISHIKUMAR V		
SDG 8: Decent Work and Economic Growth				
Total Number of Batches: 1				
SIT24CCTE30104	412420118005	BHAGAVATHRAM G	PHISHING SITE DETECTOR	MACHINE LEARNING
	412420118023	KISHORE KUMAR S		
SDG 9: Industry, Innovation and Infrastructure				

Total Number of Batches: 8				
SIT24CCTE30101	412420118001	AAKAASH M	TICKET BOOKING SYSTEM FOR BUS AND TRAIN USING CLOUD	CLOUD COMPUTING
	412420118004	ARAVINDH T.S.		
	412420118037	SATHISH S		
SIT24CCTE30102	412420118002	ADHESH R	IMAGE CLARIFIER	IMAGE PROCESSING
	412420118026	MANIKANDAN S		
	412420118045	THILAK SHANKAR V		
SIT24CCTE30103	412420118003	AKSHAYA KAMALAVASAN	DRIVER DROWSINESS DETECTION SYSTEM	MACHINE LEARNING
	412420118022	KARTHIKAYANI D		
	412420118040	SNEHA U		
SIT24CCTE30106	412420118006	CHANDHINI R	A Program for Reading Email	WEB DEVELOPMENT
	412420118036	SANJANAA B		
	412420118042	SWEETYJANET L		
SIT24CCTE30107	412420118007	DEEPTHA SRI S	Counterfeit product detection	MACHINE LEARNING
	412420118018	JAYAPRIYA M		
	412420118035	SAKTHI PRIYA B		
SIT24CCTE30111	412420118012	DUSHYANT PRABU D	MYSTERY by YDR	WEB DEVELOPMENT
	412420118031	RAMKUMAAR E T		
	412420118048	YOGESHWARAN M		
SIT24CCTE30113	412420118016	JANANI U	Women safety app	MOBILE APPLICATION
	412420118028	MONALISA B		
	412420118046	UTHIRASREE M		
SIT24CCTE30115	412420118020	JIFFY RENISSA A	SMART MIRROR	IMAGE PROCESSING
	412420118027	MANTHRA K.S		
	412420118033	RITHTHIGHA A P		
SDG 11: Sustainable Cities and Communities				
Total Number of Batches: 1				
SIT24CCTE30110	412420118010	DIVYA DHARSHINI N	ABC BUS AGENCY	WEB DEVELOPMENT
	412420118011	DIVYA E		
SDG 12: Responsible Consumption and Production				
Total Number of Batches: 1				
SIT24CCTE30117	412420118029	NIRMAL N	Smart Street Light system	Internet of Things
	412420118034	SAKTHI G		
	412420118044	THARIQ ARSATH A		

CSE Project

Sl. No.	Name of the Faculty Member	Faculty ID	Number of Projects Guided	Title of the Project	Project ID (As per Edumate)
1	ASHOK P	IT16CS03	1	Location based smart shopping using IOT	IT2021CSPJ28
			2	SMART Book Reader	
2	S Mathupriya	IT17CS04	1	BACKGROUND CONSTRUCTION AND OPTIMISATION FOR SURVEILLANCE VIDEO PROCESSING USING IOT	IT2021CSPJ25
			2	THE BILLING APPLICATION BASED ON IMAGE CLASSIFICATION AND EDGE COMPUTING	IT2021CSPJ22
3	Dr B Sreedevi	IT10CS01	2	Decentralized Application for managing the Disaster with Block chain, Cloud &IOT	
4	D.Rajalakshmi	IT14CS03	2	1. Detection of vehicles using automatic number plate recognition	IT2021CSPJ06 IT2021CSPJ14
5	H Kavietha	IT20CS06	1	MED SERV - A Smart Ambulance Deployment	IT2021CSPJ16
6	P NIRMALA DEVE	IT21CS06	1	Event selection using Automation	IT212021CSPJ37
7	S.Ananthi	IT14CS02	2	1.BLOCKCHAIN WITH IOT FOR SECURED TRANSACTION	IT2021CSPJ23
				2.IT2021CSPJ24	
8	Annadurai	IT13CS01	1	Secure data sharing in cloud computing using recoverable storage identity based encryption	IT2021CSPJ36
9	C.LEKHA	IT20CS02	1	SOS EMERGENCY TRACKING AND ASSET CAPTURING APPLICATION	IT2021CSPJ26

10	G.ILAMURUGAN	IT13CS04	1	kavuni rice	IT2021CSPJ38
			2	NON-TOUCH INTERFACE BASED HAND GESTURE RECOGNITION SYSTEM	IT2021CSPJ20
11	Gladys Aani Sujith	IT21CS03	1	MILK DISTRIBUTION MANAGEMENT SYSTEM	IT2021CSPJ39
12	HIRUNAVUKKARA	IT20CS05	1	SYNCHRONISING SMALL SCALE BUSINESS USING ROBOTIC PROCESS AUTOMATION	IT2021CSPJ35
13	NAVEEN RAJU D	IT21CS01	1	SKIN CANCER DETECTION USING IMAGE PROCESSING	IT2021CSPJ15
14	RAYAVEL P	IT14CS06	2	SMART YOGI	IT2021CSPJ07
				SECURE DATA GROUP SHARING AND CONDITIONAL DISSEMINATION WITH MULTI OWNER IN CLOUD COMPUTING	IT2021CSPJ19
15	D.ROOPA	IT16CS01	2	Detection Improvement for Crop Leaf Detection	IT2021CSPJ31
				Impacting online class using Augmented Reality Based Education	IT2021CSPJ19
16	Dr B.Sreedevi	IT10CS01	2	AGRIBRILLIANCE-A FORM LOG RENTAL SERVICE PLATFORM WITH CROP MANAGEMENT	IT2021CSPJ08
17	Dr B.Sreedevi	IT10CS01	2	SCALABLE APPLICATION TO DIGITIZE RAILWAY WORKSHOP LEDGERS	IT2021CSPJ25
18	rabhakar Godwin J	IT17CS01	1	Short term Rainfall forecasting using Multi Layer Perceptron"	IT2021CSPJ30
19	ASWINI		1	An Efficient Ranked Multi-keyword search for Multiple Data Owners over encrypted cloud	IT2021CSPJ18
20	Mr. P RAJESH			Blockchain with IoT for secured transaction	IT2021CSPJ23
21	Mr. H Jayachandran	IT17CS02	1		IT2021CSPJ11

21	Vij. J Jatakhani	IT 17 CS02	2	Enhancing Learning through Extended Reality(XR)	IT2021CSPJ12
22	Dr. K. C SURESH				IT2021CSPJ13
23	Ms. M. Subashini	IT 17 CS05	1	Smart Tutor	IT2021CSPJ32
24	K.Vijayalakshmi		1		IT2021CSPJ33
25	Mr.M.Parthiban		1		IT2021CSPJ34
26	r.M.ANBARASAN			Identification and classification of cancer based on gene using deep learning "	IT2021CSPJ05
27	Dr.M.Priya		1	Smart Building Energy Management System using Machine Learning	IT2021CSPJ29
			2		IT2021CSPJ17

Name of the Students
Nivetha S Vaishnavi N
Vishnu Prasath. R Nikhil. R
Poojalakshmi D Ranjitha N
JAYA PRAKASH P MANOJ VT BARATH KUMAR
stephen samraj kamalesh bhanuprakash sairam
1. Anitha, Dinaaram S, Soundariya P
2. Deenthika V. P. Ramya 1. D. Prakash, 2. M. Harish, R. Kiran Raajan
Shanila, Sindhu, Vijayalakshmi
1. Kamesh T, Keerthivasan P V, Sri Yogeshwaran S
TAMILSELVI.R VISITHIRA.M
MOHAMMED DANISH SHERWIN.S SUNIL KUMAR J

Sivapriya S Umaira Begum A
KEERTHANA.R SHRUTHI.M
SIVASHANKARAN E VASANTH ALLEN RAJ A VIJAY M
SRIVATHSAN D, RAJU E, SARAVANA KUMAR PP
GANESH SAI R,GOWTHAM P,SRIRAM R ARULMOZHI.V.
KOWSALYA.S, VIVASHPEE L N HELEN.R, MADHUVIITHA S
SHALINI U Padela Vaanan kumar Reddy Rahul Kannan R. Anitha Apoorva M Shalini V
ROUBIN.R REVATHY.J ASHIKA J NANDAKUMAR G
SARANYAN SJ SARADISH K
Naveen M Pravinkumar D Haritha v k Rajeshwari A
KEERTHIVASAN.P.V SRI YOGESHWARAN.S
Jyothika P Sona.M

Prajithkumar R Puneet Redhu
MUKESH L SURYA PRAKASH M
POTTLURI USHA SREE
Srinivasalu T Yogesh T
Rajkumar S Thameem navas N
Gayathri T Sandhiya M
A.Priyadarshini Vishnu Priya S
Sabareeswar P Shashank T R



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

S.NO	REG. NO	NAME OF THE STUDENT	TITLE OF THE PROJECT	GUIDE
1		Naresh M	Smart classroom	MR.RAMAPRASAD MAHARANA
		Renganathan S		
		Monish Kumar J		
2		ANISH P M	Smart guide	MR.N.ORAL ROBERTS
		KARTHIKEYAN K		
		GUNALAN M		
3		HARANVIGNESHWARAAN S	Automation based application	DR.PRABHA.R
		MOHANAPRASAD S		
		VENKAT J		
4		YOGESH PANDIAN	IOT CLIMATE D	MR.N.ORAL ROBERTS
		EDWIN BOSCO J		
		FELIX RAJA A		
5		PREETHI S	BRAIN CONTROLLED ROBOT	DR.SU.SUGANTHI
		GAYATHRI M		
		SNEKA N		
6		Keerthivasan	Wireless sensors	MR.RAMAPRASAD MAHARANA
		Seshananth		
		Baskar raj		
		Balakrishnan. R		

7		Dhinesh Kumar. K	Enhanced method of automated irrigation	MRS.VALARMATHI.G
		Vijay. R		
8		Gangadhar Babu M E	Smart crop protection from wild animals with alert using aurdino	MRS.SWEETLINE SHAMINI.S
		Ajeeth Kumar M		
		Andra Narendra Kumar		
9		Sai Subhikshaa V. B	Automated Street Light Control And Manhole Monitoring With Fault Detection & Reporting System For Municipal Department.	MRS.VALARMATHI.G
		Monisha. D		
		Youvashri. J		
10		SATHISH KUMAR G	Prosthetic limbs	MR.RAMAPRASAD MAHARANA
		KARTHIK P		
		ABDUL HADI A L		
11		Roshine.M	Iot security based project	MR.N.ORAL ROBERTS
		Bargavi.P		
		SaiMeenakshi.R		
12		Aravindh R	IOT	DR.PRABHA.R
		Balaaji R		
		Shahith basha J		
13		Yuvhedikaa cv	An ATM Eye	MR.N.ORAL ROBERTS
		Kamali k		
		Anuva r u		
14		V.SUBASRI	CANCER PREDICTION USING DATA MINING TECHNIQUES	MR.N.ORAL ROBERTS
		K.ROSELINE		
		U.KEERTHIKA		
15		JASLIN JENISHA J	AUTOMATIC ENGINE LOCK SYSTEM INCASE OF ALCOHOL DETECTION	MR.RAMAPRASAD MAHARANA
		S HARIPRIYA		
		U ATCHAYA		
16		SANGEETHA B	MNIST Digit Classification Using Machine Learning	MRS.JANAKI.R
		REESHMAA A V		
		VISHALI K		
17		Malathi S	Voice activated home automation using bluetooth	MRS.SUBASHINI.V
		Manisha M		
		Udhayadharshini T		

18	Kavitha S	Room Light Controller with Visitor Counter	MRS.SIVASANKARI.K
	Mathumitha N		
	Elavarasi E		
19	Pavithra S	sepsis identification using opencv	MRS.LAKSHMI DEVI.R
	Gayathri V		
	Priya Darshini V		
20	Sandhiya J	Stress monitoring system using bionic sensor and also stress level monitoring in led display	DR.SU.SUGANTHI
	Deepa R		
	Pavadharshini S		
21	Mohammed Mohaideen Aswath S	Object Tracker	MRS.DEIVANAYAGI.S
	Srivathsan V		
	Sethuraman L		
22	Vigneshwari.K	Crack detection in railway track using RF	MRS.SUMATHI.K
23	Shalini S		
	Abinaya M		
24	Vishwapriya M	Automatic bus ticket system	MRS.SWEETLINE SHAMINI.S
	Sreenidhi M D		
	Swathi S E		
25	Polu Rahul Sainadh Reddy	Automation based project	DR.G.SARAVANAN
	Prasannah Venkatesh U		
	Bellamkonda Rakesh		
26	KIRTHANADEVI M	INFERNO WRANGLER	MRS.SANGEETHA.K
	RAMYA R		
	PAVITHRA M		
27	Praveen kumar	IOT based peoject	MRS.SWEETLINE SHAMINI.S
	Vishnu Prian DP		
	Salamon Y		
28	Yamini V	Driver assistance system using augmented reality headset	MRS.G.P.BHARATHI
	Pavithira A H		
	Yamini G N		

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Batch No	Register Number	Name
IT2021EEPJ01	412417105002	Abhirami V
	412417105063	Remya KS
	412417105067	Rubika E
IT2021EEPJ02	412417105005	V AVINASH JANAKIRAMAN
	412417105018	M HARIHARAN
	412417105028	U LOKENDRAN
IT2021EEPJ03	412417105006	BHUVANESH S
	412417105008	DEEPAK V
	412417105047	NATARAJAN N
	412417105062	RANJITH KUMAR R
IT2021EEPJ04	412417105010	DEEPSHIKHA S
	412417105013	DHANNYA R
	412417105016	DIVHYA TE
IT2021EEPJ05	412417105015	DICKSON SAMUEL WILLIAMS M
	412417105051	PRABAKARAN K
	412417105084	VIJAY S
	412417105302	THTAI AKHIL KUMAR
IT2021EEPJ06	412417105017	Divya G
	412417105046	Narmadha M
	412417105049	Nivedha M
	412417105070	Sandhya S
	412417105020	K HARISH KUMAR
	412417105080	K VALLARASU

IT2021EEPJ07	412417105083	J VIJAY
IT2021EEPJ08	412417105027	Keerthana V
	412417105055	Prathiba V
	412417105064	Reshma RS
IT2021EEPJ09	412417105030	Madhumitha R
	412417105039	Merlin gifta J
	412417105068	Sahana U
IT2021EEPJ10	412417105031	Madhumitha RJ
	412417105042	Mounika J
	412417105065	Rojmanisha S
	412417105088	Yazhini N
	412417105033	MAGESH KRISHNA R
	412417105034	MAHIDHAR M
	412417105052	PRAKASH D

IT2021EEPJ11		
	412417105075	SHASHIKUMAR P
IT2021EEPJ12	412417105061	S RAJESH
	412417105071	S SARAVANAN
	412417105073	B SELVIN SANJAY
	412417105090	P YESHWANTH

Guide Name
Mrs.M.Razma (9884711156)
Dr.T.Muthamizhan (9941077477)
Mr.P.Rathnavel (9786994588)
Mr.S.Surenderanath (9884858086)
Mrs.R.Anitha (9003552259)
Dr.Sivarajeswari (9894676948)

Mrs.A.Sasikala (9487507773)

Mr.M.Veerasundaram (8438252534)

Mr.L.Vijayaraja (9080787352)

Mrs.E.Maheswari (9790847615)

Mrs.T.Thenmozhi (9884441139)

Mr.R.Dhanasekar (9994602074)

Title

SOLAR PV SEPIC CONVERTER BASED NANOGRID FOR AC/DC LOADS USING SINGLE-STAGE HYBRID CONVERTER

BIDIRECTIONAL HIGH GAIN DC-DC CONVERTER FOR GRID TIED SOLAR ELECTRIC VEHICLE APPLICATIONS

SMART SOLAR-WIND ENERGY SYSTEM IN FARMING WITH OFF-GRID MODE BY IOT CONTROL

AN AUTOMATIC INTERNET-ORIENTED MEASUREMENT SYSTEM BY QT

New ACF Topology Converter with Continuous Input Current Waveform for Satellite Power Application

POWER GENERATION FROM PRESSURE AND SOUND AND AMPLIFIED USING KY CONVERTER

ANALYSIS OF BLDC DRIVE BY SOLAR POWERED TRANS SWITCHED BOOST INTERFACING FOUR SWITCH THREE PHASE INVERTER

INTERNET OF THINGS BASED ELECTRIC VEHICLE MONITORING AND CONTROL SYSTEM

CSP Method of Parabolic dish Power Generation using Thermoelectric Generator (TEG) module

ANFIS CONTROLLER BASED NOVEL BUCK POWER FACTOR CORRECTION CONVERTER

Development of Wind and Solar Based AC Microgrid with Power Quality Improvement for Local Nonlinear Load

IOT Based Automatic Swift Fault Detection and Isolation with alerting system using WSN in Distribution System

Abstract

This system proposes a solar photovoltaic (PV) based nano grid with integration of battery energy storage to supply both AC and DC loads using single-stage hybrid converter. PV power is fed to the SEPIC converter it is used to enhance the voltage from pv panel. The MPPT converter implements the Adaptive Neuro Fuzzy Interfacing System MPPT algorithm and extracts maximum power from the SPV system. A boost derived hybrid converter (BDHC) is used as a single-stage converter to supply the AC/DC hybrid loads. The BDHC reduces the number of conversion stages when compared to the conventional solar PV based systems to supply the AC/DC loads. A non-isolated buck-boost bidirectional DC-DC converter is used for charging and discharging of the battery to support the nano grid. A modulation scheme is implemented to operate the BDHC for generation of AC/DC hybrid outputs from a single input. The effectiveness of the proposed system is validated by MATLAB/SIMULINK software.

A Bidirectional Single-stage Grid-connected inverter (BSG inverter) for the battery energy storage system using SEPIC-ZETA converter is proposed. In this works BSG-inverter is composed of bidirectional SEPIC-ZETA type dc-dc converter (BBC) and a dc-ac unfold. The circuit diagram of the proposed BSG-inverter, which is composed of distributed SEPIC-ZETA type dc-dc

power which could be given to the grid. The grid which is used is Off-grid system functioning with the bidirectional converter. The reverse protection is used for the PV cells. Battery is used to store or reserve energy connected to load and relay. As the general power shutdown takes place the power from the battery makes the loads to function properly. The DC power from the battery is converted by the converter and supplies to the loads as follows. To make it smart, the IOT (Internet of Things) technology is also engaged with the venture. IOT as a wide range of application in every field. Here IOT is molded with agriculture and energy system to make safe and easier. Using IOT the loads are operated by user on other end by the transmitter and receiver. To make it more easily, a separate applications is used to operate the loads. Google Assistant technology is also used to operate the Loads. To analyze the temperature humidity sensor used. To avoid discontinues power supply and waste of excess power, Off-grid mode is used with smart IOT system technology.

this project is put forth to implement measurement automation, which can be achieved by monitoring various parameters and a controlled environment for a specific application. Here the system provides not only controls but also selfanalyzed data, performance monitoring and machine observation by the use of Qt which makes it unique than other systems, resulting in the increase of productivity and efficiency of the system. Apart from the normal lists of parameters we can also obtain some of additional data like temperature, light intensity, vibration of system.

In Satellite DC/DC power converters are required to have EMI compatibility as well as high reliability. The requirement of high reliability limits the complexity of the structure as well as the number of low-reliability components. Conventional Active Clamp Forward has a pulsating input current shape, a high di/dt level, and high switch voltage stress, which are

In order to meet the future electricity demand without harming the environment, it's necessary to focus more on renewable energy and unconventional sources for electricity generation. The hump mechanism which consists of the permanent magnet dc generator, is used to obtain the pressure which in turn is connected to the piezoelectric sensor and these two systems have been coupled with each other and stored in the battery and thus it is fed as the input to the KY converter where the given input voltage is uplifted. The KY converter has continuous input and output inductor currents, and features a larger voltage conversion ratio with ripple free voltage.

This system proposes a Trans switched boost network coupled with four switch three phase inverter to utilize the voltage gain

gathered from the PV array. The overwhelming proposed concept is carried through a fuzzy logic controlled feedback loop. In conventional methods, to step up voltage gain and filtering unit LC pairs, coupled inductors are evaluated in the proposed system. It also handles low turns ratio to raise the voltage. Addition to the above statement, the switch present in it could be tuned at an appropriate rate to raise the power flow. In case of any variation in voltage range, the fuzzy controller took part in tuning the gate pulse and made the action more effective. The four switch three phase network increases the efficiency by deducing switch cont. And it will concentrate majorly upon avoiding switching stress. To estimate the overall efficiency and describing operating performance, a SIMULINK block is designed.

The advanced system describes the application of internet of things (IoT) in monitoring the battery performance of an electric vehicle . As EV depends on the energy source from the battery, the amount of energy supplied to the vehicle is gradually decreasing which leads to performance degradation of the vehicle when not noticed properly. In the proposed system , monitoring can be done automatically using IoT and an alternate battery is connected when one battery drains which is done using a relay. Electric vehicle's parameters like battery performance and gas pollution will be uploaded to IoT and then the output is obtained.

The project is based on the concept of generating electricity from the sun's energy using a parabolic concentrator and a thermoelectric (TE) module. The proposed TE solar concentrator is composed of a parabolic dish collector with an aperture of 1.11 m that was used to concentrate sunlight onto a receiver plate with an area of 1.56 m. One BiTe-based TE module installed on the receiver plate was used to convert the concentrated solar thermal energy directly into electric energy. A rectangular fin heat sink coupled with a fan was used to release heat from the cold side of TE module and a tracking system was used to continuously track the sun. The effects of fan orientation and air flow rate were investigated. The proposed concept will be reliable .Further investigation will be made for the proposed system.

In this project the novel buck converter is designed for LED charging applications. This converter gives the continuous load current compared to a normal buck converter with wide variation of duty ratio. The power factor correction controller is implemented to get the unity power factor and low Total harmonic distortion (THD). The existing controller techniques Average Current Mode Controller (ACM) and General pulse width modulation (GPWM) controller are implemented. Then the performance of the new buck converter is compared with ANFIS (Adaptive Neuro-Fuzzy Inference System) controller. The performance of the three controllers are compared based on the power factor and THD for line and load variation. The simulation results compared with experimental results using a 6W power rating prototype model used in LED applications.

This project proposes a microgrid (μ -grid) which is been integrated with the wind also as solar photovoltaic (PV) resources, alongside the battery energy storage (BES) to the three-phase grid which is feeding to the nonlinear load. The μ -grid disconcerted by probabilistic nonlinear time dependent parameters and their effects are compensated by adaptive controllers used for utility.

dependent parameters and their effects are compensated by conesive controllers used for utility grid side voltage source converter (GVSC) and machine side voltage source converter (MVSC). The nonlinear load compensation and therefore the PQ enhancement are achieved by executing a modified version which is an adaptive filtering technique called "momentum"-based least mean square (MLMS) control technique, which is especially utilized for providing the switching control signals to the GVSC. The MVSC acquires its switching signals from conventional vector control scheme and therefore the encoder less estimation of speed and rotor position of the synchronous generator driven by turbine through back electromotive force control technique.

In city, underground cables are most widely used rather than the overhead transmission lines. It is ha

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Responsible consumption and production

SDG 7 – AFFORDABLE AND CLEAN ENERGYSDG 9 – INDUSTRY INN

7-Affordable and Clean Energy

9- Industry, innovation and infrastructure

SDG GOAL NO: 12

7-Affordable and Clean Energy

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IT DEPARTMENT

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1		ML based tourist guide system
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4		Voice based medicine prescription application
5		Know your problem
6		Digitalized Land registry
7		Classifying and Predicting COVID-19 Infection based on Computed Tomography Scan
8		Identifying real and fraudulent job postings using Machine Learning
9		Influence minimization of negative information in social networks
10		Heart disease prediction using Machine Learning with Chatbot

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13		Hel Must - System to Report Helmet Violation in Traffic using Deep Learning Model of
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19		Prediction of Loan Sanctioning process using CNN
20		Credit Card Fraud Detection by Analyzing customer purchasing behaviour and blockin
21		Personality prediction using Artificial Intelligence
22		An intelligent deep learner based patient health e-record secured from unauthorized user

23		Digital meal sharing using machine learning
24		Travolution
25	Block Chain	Smart Tree Management and Biodiversity Preservation with Image Processing and Blockchain technology.
26		Student funding system using BlockChain
27		Fourth Pillar
28		Block chain for Smart Ration
29	Image Processing	Criminal detection and case report generation
30	Web Development	Unified Electric Platform
31		
32	IoT	Smartphone Controlled Fingerprint Door lock system using Arduino and Bluetooth Mod
33		Water Quality Monitoring System
34		Pre-emptive Healthcare management system using IOT

35	Cloud Computing	Data deduplication using cloud technology
36		Secure File Storage in cloud using cryptographic techniques

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		412417114071	D.Raghul
		412417114067	E.Prathap
		412417114078	G.Santhosakumar
10	IT2021MEPJ10	412417114106	D.Vishwa
		412417114019	M.Dharanidharan
		412417114027	P.Gokul
		412417114056	L.L.ManojKumar
11	IT2021MEPJ11	412417114041	S.Jaibarath
		412417114091	M.Sukumar
		412417114043	K.Karthick
		412417114054	B.Mangayarkarasan
		412417114060	R.Muralikumaran

12	IT2021MEPJ12	412417114068	S.Prathish
		412417114080	L.SathishKumar
		412417114081	N.Sethuraman
13	IT2021MEPJ13	412417114083	M.Sibi
		412417114069	G.Prthiviyokash
		412417114042	A.JayaPrakash
14	IT2021MEPJ14	412417114025	G.GokulAnand
		412417114038	P.Hariharan
		412417114086	S.Srinivas
15	IT2021MEPJ15	412417114075	R.RishikumarSrinivas
		412417114049	T.Keerthivasan
		412417114018	S.Deepika
16	IT2021MEPJ16	412417114105	C.Viknesh
		412417114104	E.Vijay
		412417114101	V.Venkatesh
17	IT2021MEPJ17	412417114031	D.DeepanRaj
		412417114023	K.BaskaraHariharan
		412417114053	S.Makesh
18	IT2021MEPJ18	412417114084	E.Srinivas
		412417114006	A.Akash
		412417114040	JaganMurthy
19	IT2021MEPJ19	412417114051	G.Kovarasan
		412417114010	S.Azhur
		412417114085	K.S.Srinivas
20	IT2021MEPJ20	412417114088	A.SubeeshKumar
		412417114061	K.Muthukumaran
		412417114021	S.Swaminathan
21	IT2021MEPJ21	412417114021	Eugin Franko
		412417114021	S.Gopinath
		412417114007	R.Akshaya
22	IT2021MEPJ22	412417114012	F.BenitaCelcia
		412417114087	E.Subash
		412417114096	A.Thamim Ansari
23	IT2021MEPJ23	412417114036	S.Hariharan
		412417114025	P.GaneshAravind
		412417114058	K.Mohamed Mubarak
24	IT2021MEPJ24	412417114089	S.Sudharsan
		412417114094	P.HemanthKumar
		412417114046	E.Karthikeyan
25	IT2021MEPJ25	412417114008	K.Aravind
		412417114302	S.Muthusankar
		412417114064	S.V.Padmanadhan
26	IT2021MEPJ26	412417114048	R.KarthikKumar
		412417114052	T.LokeshKumar
		412417114062	M.Naveenraj
27	IT2021MEPJ27	412417114092	M.S.Sundar
		412417114016	R.Chandramohan
		412417114034	S.Gurudarshan
28	IT2021MEPJ28	412417114037	M.Harikrishna
		412417114098	J.Tharunkumar
		412417114057	V.M.Manojkumar
29	IT2021MEPJ29	412417114013	H.Bharathi
		412417114004	P.Abimanyu
		412417114303	S.Paneerselvam
30	IT2021MEPJ30	412417114107	R.Vivek

		412417114301	K.AshokKumar
27	IT2021MEPJ27	412417114029	R.K.Gokulsaran
		412417114306	D.SureshKumar
		412417114044	A.Karthik
		412417114108	P.Yugendran
		412417114079	M.Saravanan
28	IT2021MEPJ28	412417114066	M.Prashanth
		412417114073	K.Ranjithkumar
		412417114020	S.Dhivakar



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DEPARTMENT OF MECHANICAL ENGINEERING

PROJECT TITLE	PROJECT DOMAIN	SDG
Analysis of Mechanical & Wear Properties of Sisal-Kenaf Rein	Materials	8.Decent work and Ec
Co-operative Mobile 3D Printer	Design	9.Industry, Innovation
Smart Automobile Accident Information system	Design	9.Industry, Innovation
Design and fabrication of fire brick boiler	Design	8.Decent work and Ec
Autonomus seed sowing machine	Design	7.Affordable and Clea
Frictional Analysis of Tyre on Rainy Roads.	Design	9.Industry, Innovation
Design & Fabrication of Bicycle Frame using Metal Matrix Cor	Design	4.Quality Education, S
NaviAid	Design	3.Good Health and W
Design and fabrication of 3D printer	Manufacturing	9.Industry, Innovation
Automated Guided Mobile Robot with Image Recognition	Robotics	9.Industry, Innovation
Design of Teach pendant in Hand suit	Robotics	9.Industry, Innovation

Design and analysis of 6 DOF robotic arm with iot controller.	Robotics	9.Industry, Innovation
RF based Spying Night Vision Canara Robot	Robotics	9.Industry, Innovation
Tribology study of aluminium alloy fabricated by Friction stir pr	Materials	8.Decent work and Ec
Study & Analysis of Tool wear by Different coating materilas	Manufacturing	9.Industry, Innovation
Fabrication of zinc aluminium alloy	Manufacturing	9.Industry, Innovation
seed dryer	Manufacturing	9.Industry, Innovation
Air brake system using engine exhaust gas with air filling	Manufacturing	7.Affordable and Clea
Microstructure properties of aluminium alloy by friction stir pro	Manufacturing	9.Industry, Innovation
Experimental & Theoretical properties of FDM AM PLA Materi	Materials	9.Industry, Innovation
Analysis of Mechanical & Thermal properties of Bamboo-Sisa	Materials	7.Affordable and Clea
Experimental investigation and analysis on mechanical and ot	Materials	9.Industry, Innovation
Analysis of Mechanical & Thermal properties of Bamboo-Sisa	Materials	7.Affordable and Clea
GNP Reinforced UHMWPE Knee Prosthesis	Materials	3.Good Health and W
Experimental investigation of hybrid synthetic fibres reinforced	Materials	9.Industry, Innovation
Fabrication & Testing of Silica Fly Ash filled Polyester compos	Materials	9.Industry, Innovation

Atmospheric water condensing unit	Thermal	12.Responsible consu
Thermal analysis on aluminium metal matrix composites	Thermal	9.Industry, Innovation



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