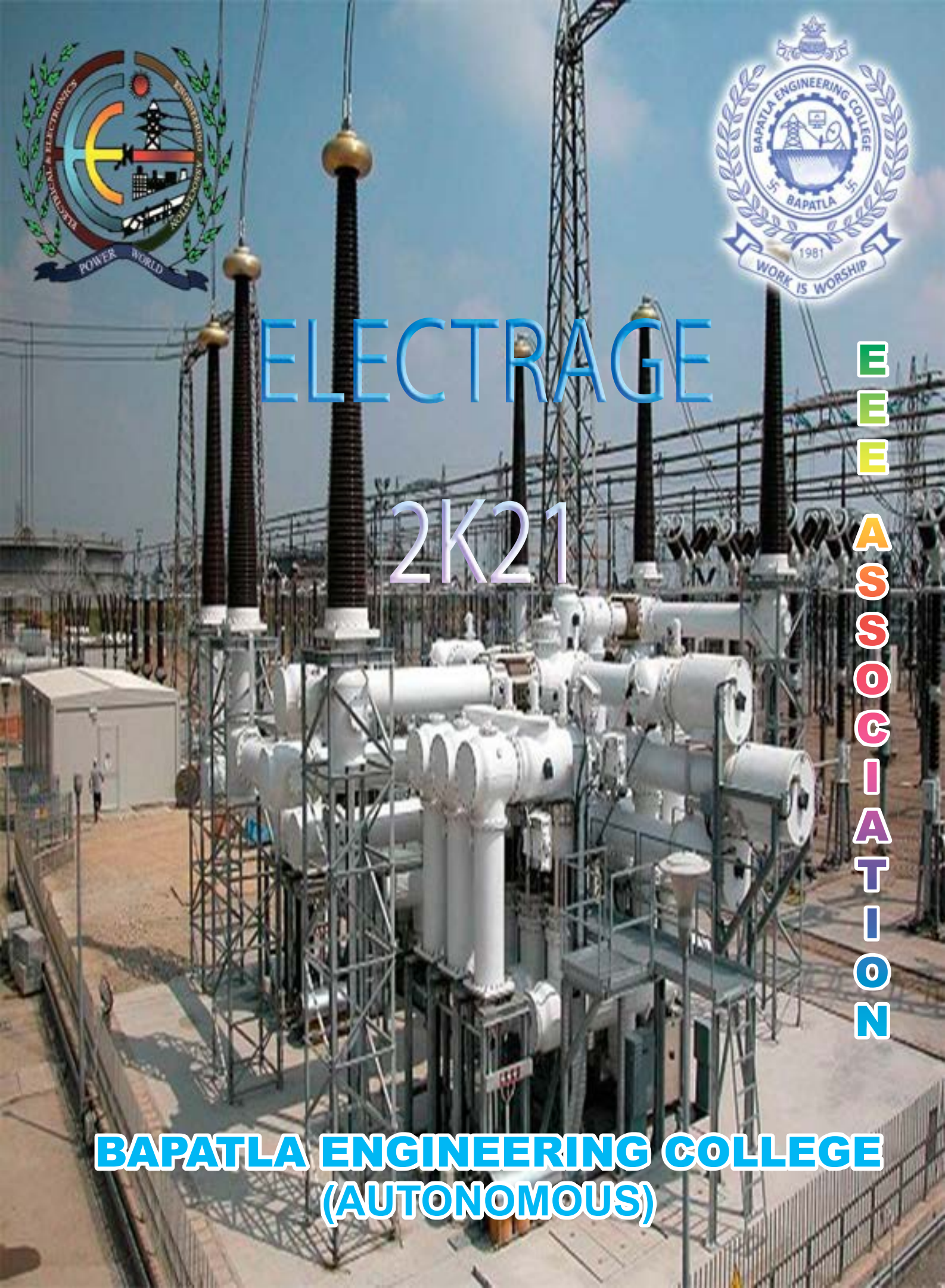

ELECTRAGE
2K21
EEE ASSOCIATION
BAPATLA ENGINEERING COLLEGE
(AUTONOMOUS)

Vision of the Institute

To build centers of excellence, impart high quality education and instill high standards of ethics and professionalism through strategic efforts of our dedicated staff, which allows the college to effectively adapt to the ever-changing aspects of education.

To empower the faculty and students with the knowledge, skills and innovative thinking to facilitate discovery in numerous existing and yet to be discovered the fields of engineering, technology and inter-disciplinary endeavors.

Mission of the Institute

To impart the quality education at par with global standards to the students from all over India and in particular those from the local and rural areas.

To maintain high standards so as to make them technologically competent and ethically strong individuals who shall be able to improve the quality of life and economy of our country.

Vision of the Department

The Department of Electrical & Electronics Engineering will provide programs of the highest quality to produce globally competent technocrats who can address challenges of the millennium to achieve sustainable socio - economic development.

Mission of the Department

M1.To provide quality teaching blended with practical skills.

M2.To prepare the students ethically strong and technologically competent in the field of Electrical and Electronics Engineering.

M3.To motivate the faculty and students in the direction of research and focus to fulfill social needs.

EDITORIAL NOTE

IT IS A MATTER OF PRIDE AND DELIGHT OF ENCLOSE A TREND CARRIED OUT BY "EEE ASSOCIATION" MAGAZINE

""""ELECTRAGE 2021""""

WE HAD A GREAT IMMENSE PLEASURE TOWARDS IT. WE ARE VERY MUCH ECSTATIC TO BRING OUT IT. LIKE EVERY YEAR WE HAVE TRIED OUR BEST PUBLISH THE ELITE ARTICLES SUBMITTED BY STUDENTS IN BOTH TECHNICAL AND LITERARY, AN ADDITION OF PHOTO AND ART GALLERY, HIGHLIGHTS OF TECHNICAL EVENTS ALSO INCLUDED AT THE END OF MAGAZINE. WE EMPHASIZED OUR INNOVATIVE TECHNICAL IDEAS THAT ARE PRACTICAL IN THEIR APPROACH. IT'S A COLLECTIVE WORK OF EEE ASSOCIATION.

WE SINCERELY THANK OUR HOD, STAFF ADVISOR AND FACULTY, WHO SUPPORTED US IN MAKING THIS PRESTIGIOUS MAGAZINE.

WE ARE ALSO THANKFUL TO STUDENTS WHO PAY THEIR CONTRIBUTION TOWARDS EVENTS WITHOUT WHOM THE MAGAZINE WOULD NOT HAVE BEEN POSSIBLE.

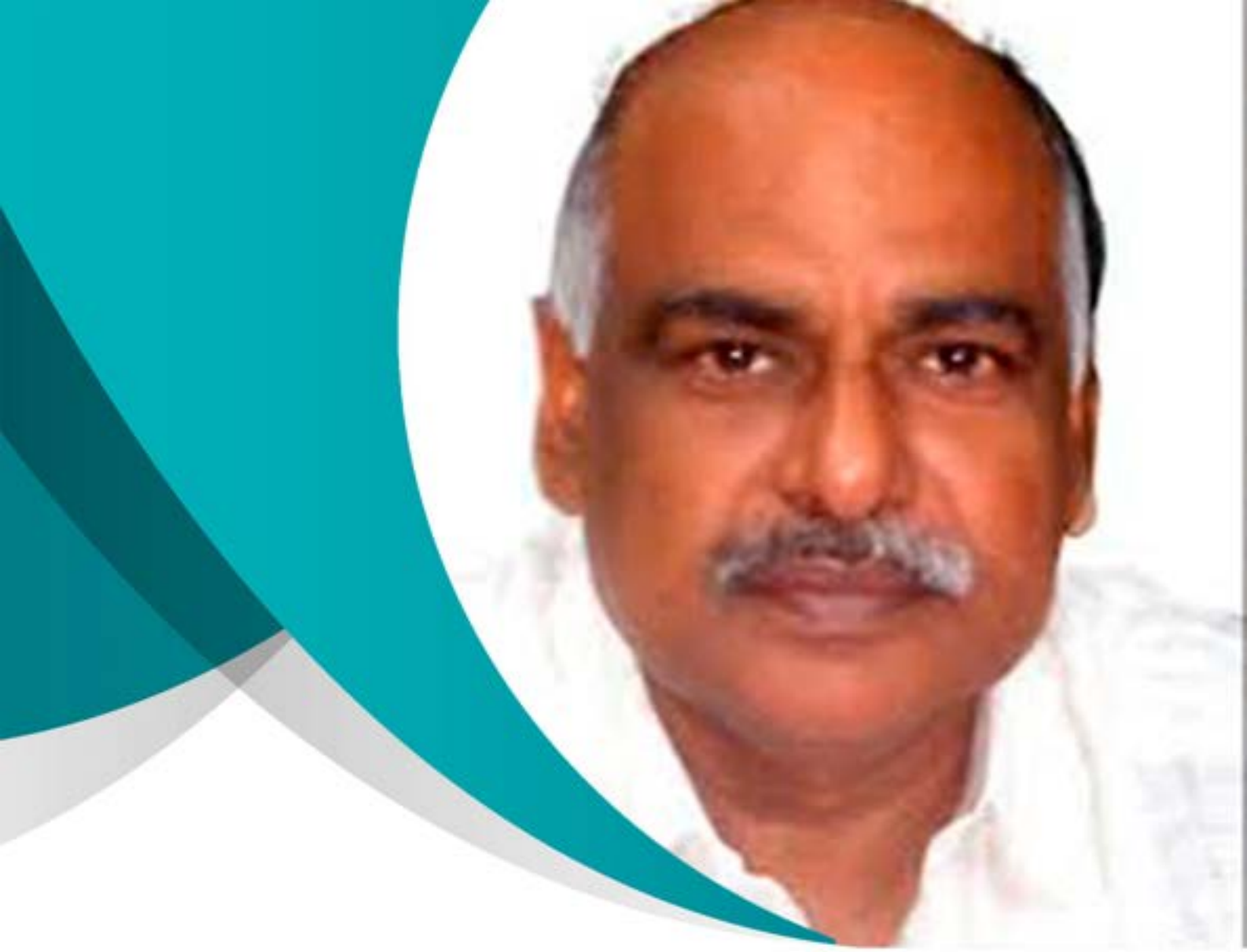
WE HOPE THAT OUR ""ELECTRAGE 2021"" SATISFIES ALL THE READERS AND DRIVES THEM INTO THE; "WORLD OF POWER AND IMAGINATION""

Dear EEE Students,

I am delighted to congratulate the students of eee for their enthusiasm towards their magazine "Electrage 2021". I think of education as the means of developing our greatest abilities, because in each of us there is a private hope and dream which , fulfilled, can be translated to benefit everyone and add greater strength to the natio. Critical thinking and critical literacy skills are the tools. Students need to develop into active, responsible participants in the global community.

I Believe this magazine will help you in pursuing your goals in a more effective and meaningful way for your success.

Sri. B. V. S. Rama Krishna
Acting President



Dear EEE Students,

It gives me immense pleasure to pen a few words as prologue to in-house magazine"Electrage 2021 exclusively meant for churning out the latent writing talent which bears immense potentiality as part of our all personality development. I congratulate all the contributors and the editorial board for bringing out such a beautiful magazine. I appreciate the overwhelming response and enthusiastic participation of students in the college activities in the recent past all vouch for this. When all the constituents come together and work in union, the expected results are bound to keep doing good work.

Sri.M.Nageshwara Rao
Secretary

It is a great pleasure to see the creative expressions of students who had contributed to ELECTRAGE 2021.

Nurturing creativity and inspiring innovation are two of the key elements of a successful education, and a college magazine is the perfect amalgamation of both. It harnesses the creative energies of the academic community, and distils the essence of their inspired imagination in the most brilliant way possible. Hence, I take this opportunity to congratulate all the students of Electrical and Electronics Engineering for bringing out this magazine, which itself is an achievement considering the effort and time required. May all our students soar high and bring glory to the World and their profession with the wings of education.

Dr. V.Damodara Naidu
Principal

Vision of the Department

The Department of Electrical & Electronics Engineering will provide programs of the highest quality to produce globally competent technocrats who can address challenges of the millennium to achieve sustainable socio- economic development.

Mission of the Department

1. To provide quality teaching blended with practical skills.
2. To prepare the students ethically strong and technologically competent in the field of Electrical and Electronics Engineering.
3. To motivate the faculty and students in the direction of research and focus to fulfill social needs.

PROGRAM EDUCATIONAL OBJECTIVES (PEO'S)

PEO1

Have a strong foundation in the principles of Basic Sciences, Mathematics and Engineering to solve real world problems encountered in modern electrical engineering and pursue higher studies/placement/research.

PEO2

Have an integration of knowledge of various courses to design an innovative and cost effective product in the broader interests of the organization & society.

PEO3

Have an ability to lead and work in their profession with multidisciplinary approach, cooperative attitude, effective communication and interpersonal skills by participating in team oriented and open-ended activities.

PEO4

Have an ability to enhance in career development, adapt to changing professional and societal needs by engage in lifelong learning.

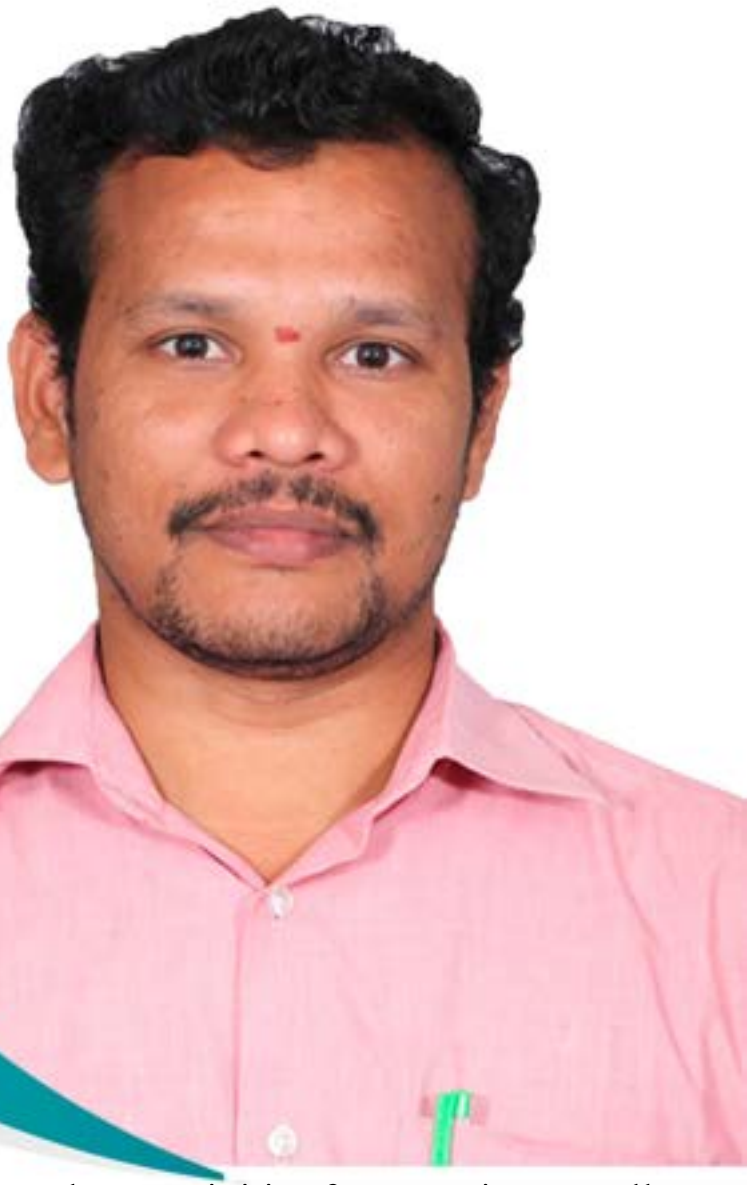
From the desk of the HOD.....

Its my great pleasure to be a part of EEE association and served as a president.With great honour to give this message to the association MAGAZINE of our department.We started this association since 2003 with a great attitude towards the student growth.From this platform our students have exhibit their multifaced talents.Through this our students are participated in various technical events conducted by country's premium institutions without any fear.I strongly believe our students are very strong in academic and non academic activities and spiritual activities.I hope that the same to be maintained in future also.

My primary focus would also be building closer ties between the EEE association and students. I hope to get more and more students being involved in our association activities. I also hope that our student and faculty members will maintain the standard of our department where ever they go.

Through this association magazine, I appeal all the alumni of our department to extend their support to the development of the department. I thank the editorial board members for bringing message in a beautiful and informative manner. Finally, all the best for our EEE students in future for getting a secure job or become an enterpreneur.

Prof. Dr. N. Rama Devi
Head of the Department



I'm privileged to have been a part and parcel of students activities for years in our college and it is my pride to introduce on behalf of the EEE Association, ELECTRAGE 2021 It is very pleasant to see how the students are progressing year after year in technical as well as other realms. Besides, it is matter of extreme pleasure to see the amount of hard work put in by the student committee of ELECTRAGE 2021 to bring it our successfully in due time.

At the same time, I would like to extend my felicitations to the talented students who have shown consistent performance in academics and extra-curricular activities and brought laurels to the college. We aim to establish Bapatla Engineering College as a globally recognized college and embark on a journey towards excellence.

On this occasion, I congratulate the outgoing batches of students on successful completion of their course of study. I am confident wherever our students will be placed shall work passion, perfection and dedication.

I wish the best for the ELECTRAGE 2021 and also all my students in their journey ahead. God be with you all!!

Dr. M. S. Dinesh
Staff Advisor

PATRON

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Mr. N. Anil Kumar	2EEE-B

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Ms. M. Sravani	3EEE-B
Ms. P. B. Swaroopa	3EEE-C
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2k17 To 2k21

S.NO	REG NO	NAME OF THE STUDENT	COMPANY
1	Y17AEE497	YAKKALI LALITHA	ACCENTURE
2	L18AEE505	B ARUNA SREE	APTIVE COMPONENTS
3	L18AEE521	J NIRUPAMA KEERTHI	APTIVE COMPONENTS
4	Y17AEE406	B RAMANI	APTIVE COMPONENTS
5	Y17AEE428	GUMMA SAI SINDHU	APTIVECOMPONENTS
6	Y17AEE469	PATCHA ANUSHA	APTIVE COMPONENTS
7	Y17AEE401	ALAVALA DIVYA	Capgemini
8	Y16AEE495	S YASWANTH	Capgemini
9	Y17AEE498	YENUGUDHATI NANDA SAI	Capgemini
10	Y17AEE495	VENGANAMPALLY VENKATA SRIKANTH	Capgemini
11	Y17AEE445	KOTHAVARI YAMINI	HCL
12	L18AEE556	VELAGA DANA VENKATA SRIRAM	HEXAWARE
13	L18AEE557	YEKKALA JEEVAN TEJA	Infosys
14	Y17AEE404	ANNADATA THOSITHA VEDASILPA	Infosys
15	Y17AEE429	GUNDA DEVENDRA SAI SUMANTH	Infosys
16	Y17AEE440	KOKA RISHITA	Infosys
17	Y17AEE445	KOTHAVARI YAMINI	Infosys
18	Y17AEE450	MEEGADA MANEENDRA REDDY	Infosys
19	Y17AEE491	T CHANDINI	Infosys
20	Y17AEE497	YAKKALI LALITHA	Infosys
21	Y17AEE498	YENUGUDATHI NANDA SAI	Infosys
22	L18AEE553	TENALI AMAREESWAR	Infosys
23	Y17AEE416	CHAPPA GANESH	Infosys
24	L17AEE559	NARRA SAI KRISHNA	KIML
25	L18AEE504	BOYALLA KOUSHIK	KIML
26	L18AEE506	CHEBROLU KARTHIK	KIML
27	L18AEE510	DHANDASI ANAND BABU	KIML
28	L18AEE511	DHARAVATHU NAGARAJU NAIK	KIML
29	L18AEE514	GOTTAPU ESWARA RAO	KIML
30	L18AEE516	GUDELA GAGAN ARAVIND SAI	KIML
31	L18AEE518	GNTURU GANESH BABU	KIML
32	L18AEE521	ONNALAGADDA NIRUPAMA KEERTHI	KIML
33	L18AEE526	KAPPIRI SATEESH	KIML
34	L18AEE527	K GOPAL KRISHNA	KIML
35	L18AEE534	MUDEDLA SANDEEP VENKATA KUMAR	KIML
36	L18AEE536	NALLALA YONA	KIML
37	L18AEE538	PAKANATI DAIVA VARA PRASAD	KIML

CAMPUS RECRUITMENT

2k17 To 2k21

S.NO	REG NO	NAME OF THE STUDENT	COMPANY
38	L18AEE539	P CHAITANYA	KIML
39	L18AEE540	PATAN SHARUK KHAN	KIML
40	L18AEE541	RAIPALLI SRIHARI	KIML
41	L18AEE543	R SAMBA SIVA RAO	KIML
42	L18AEE544	RAVULAPATI SAI KESAVA	KIML
43	L18AEE546	SAHITHALA KANTHI VIKRAM DATTA	KIML
44	L18AEE548	SANAKA JAYA SURYA	KIML
45	L18AEE549	SHAIK NAGUR BABU	KIML
46	L18AEE554	UNNAM VAMSI	KIML
47	L18AEE556	VELAGA DANA VENKATA SRIRAM	KIML
48	L18AEE557	YAKKALA JEEVAN TEJA	KIML
49	L18AEE558	YAVARNA VENKATARAMANA	KIML
50	L18AEE561	YENUMULA SIVAIAH	KIML
51	L18AEE562	YEPURI UDAYA KIRAN	KIML
52	Y17AEE513	VADDE RAJA MALLI DILEEP	KIML
53	Y17AEE423	DODDA AKHIL KUMAR	KIML
54	Y17AEE441	ISTHARLA VAMSIKRISHNA	KIML
55	Y17AEE488	RAPOLAU AVINASH	KIML
56	Y17AEE505	VALLU KOTESWARA RAO	KIML
57	Y17AEE404	ANNADATA THOSHITHA VEDASILPA	KIML
58	Y17AEE406	BATTULA RAMANI	KIML
59	Y17AEE410	BODDUCHERLA KRISHNA SRUTHI	KIML
60	Y17AEE430	INAGANTI RAKESH BABU	KIML
61	Y17AEE439	K YEDUKONDALU	KIML
62	Y17AEE441	KOLA STEEVENSON	KIML
63	Y17AEE448	LINGABATHINA VEERA BRAHMAIAH	KIML
64	Y17AEE472	P NAVEEN	KIML
65	Y17AEE476	B RAMA KRISHNA NAIK	KIML
66	Y17AEE479	SABBAVARAPU UDAY KUMAR	KIML
67	Y17AEE482	SAYYAD ANWAR	KIML
68	Y17AEE484	SHAIK KARISHMA	KIML
69	Y17AEE485	SHAIK KHAJAVALI	KIML
70	Y17AEE488	SIRASANI TRIKOTESH	KIML
71	Y17AEE490	S SAI KIRAN	KIML
72	Y17AEE494	VEMPATI KOTESWARA RAO	KIML
73	Y17AEE495	VENGANAMPALLY VENKATA SRIKANTH	KIML
74	Y17AEE496	YADDANAPUDI SUMANTH	KIML
75	Y17AEE498	YENUGUDHATI NANDA SAI	KIML

CAMPUS RECRUITMENT

2k17 To 2k21

S.NO	REG NO	NAME OF THE STUDENT	COMPANY
78	L18AEE504	BOYALLA KOUSHIK	NOKIA SEIMENS
79	L18AEE506	CHEBROLU KARTHIK	NOKIA SEIMENS
80	L18AEE510	DHANDASI ANAND BABU	NOKIA SEIMENS
81	L18AEE511	DHARAVATHU NAGARAJU NAIK	NOKIA SEIMENS
82	L18AEE513	GADDALA RAJIV KALYAN KUMAR	NOKIA SEIMENS
83	L18AEE514	GOTTAPU ESWARA RAO	NOKIA SEIMENS
84	L18AEE5117	GUMMA NAGA RAJU	NOKIA SEIMENS
85	L18AEE522	JUPALLI CHINNA KESAVULU	NOKIA SEIMENS
86	L18AEE528	KUKKALA HARI KRISHNA	NOKIA SEIMENS
87	L18AEE529	MADHAVARAPU BALA GANAPATHI	NOKIA SEIMENS
88	L18AEE533	MUDAVATH PEDARANGANAIK	NOKIA SEIMENS
89	L18AEE534	MUDEDLA SANDEEPVENKATAKUMAR	NOKIA SEIMENS
90	L18AEE538	PAKANATI DAIVA VARA PRASAD	NOKIA SEIMENS
91	L18AEE539	PAPANA CHAITHANYA	NOKIA SEIMENS
92	L18AEE540	PATAN SHARUK KHAN	NOKIA SEIMENS
93	L18AEE546	SAHITHALA KANTHI VIKRAM DATTA	NOKIA SEIMENS
94	L18AEE549	SHAIK NAGUR BABU	NOKIA SEIMENS
95	L18AEE550	SUREDDY JYOTHIKIRAN	NOKIA SEIMENS
96	L18AEE554	UNNAM VAMSI	NOKIA SEIMENS
97	L18AEE555	VEERAVALLI NAREN	NOKIA SEIMENS
98	L18AEE557	YAKKALA JEEVAN TEJA	NOKIA SEIMENS
99	L18AEE560	YEMINADI ALIVELU MANGAMMA	NOKIA SEIMENS
100	Y15AEE513	VADDE RAJA MALLI DILEEP	NOKIA SEIMENS
101	Y16AEE441	ISTHARLA VAMSIKRISHNA	NOKIA SEIMENS
102	Y16AEE484	POTHURAJU PAVAN KALYAN	NOKIA SEIMENS
103	Y17AEE401	ALAVALA DIVYA	NOKIA SEIMENS
104	Y17AEE405	BANDI SATHYAVARDHAN	NOKIA SEIMENS
105	Y17AEE414	CHAMARTHI VENKATESH	NOKIA SEIMENS
106	Y17AEE421	GADA SURYA NARAYANA	NOKIA SEIMENS
107	Y17AEE429	GUNDA DEVENDRA SAI SUMANTH	NOKIA SEIMENS
108	Y17AEE430	INAGANTI RAKESH BABU	NOKIA SEIMENS

CAMPUS RECRUITMENT

2k17 To 2k21

S.NO	REG NO	NAME OF THE STUDENT	COMPANY
109	Y17AEE441	KOLA STEEVENSON	NOKIA SEIMENS
110	Y17AEE445	KOTHAVARI YAMINI	NOKIA SEIMENS
111	Y17AEE41050	MEEGADA MANEENDRA REDDY	NOKIA SEIMENS
112	Y17AEE453	MUSIDIPALLI AKHIL	NOKIA SEIMENS
113	Y17AEE460	NUNE MANOJ	NOKIA SEIMENS
114	Y17AEE462	ONTERU RAJASHEKAR	NOKIA SEIMENS
115	Y17AEE476	B RAMA KRISHNA NAIK	NOKIA SEIMENS
116	Y17AEE479	SABBAVARAPU UDAY KUMAR	NOKIA SEIMENS
117	Y17AEE482	SAYYAD ANWAR	NOKIA SEIMENS
118	Y17AEE488	SIRASANI TRIKOTESH	NOKIA SEIMENS
119	Y17AEE495	VENGANAMPALLYVENKATASRIKANTH	NOKIA SEIMENS
120	Y17AEE496	YADDANAPUDI SUMANTH	NOKIA SEIMENS
121	Y17AEE498	YENUGUDHATI NANDA SAI	NOKIA SEIMENS
122	Y17AEE482	ANWAR SAYAD	Smart Rotamach
123	L18AEE514	GOTTAPU ESWARA RAO	Smart Rotamach
124	Y17AEE454	NAGA SARAN TUNGALA	TCS
125	Y17AEE469	PATCHA ANUSHA	TCS
126	Y17AEE414	CHAMARTHI VENKATESH	TCS
127	L18AEE554	UNNAM VAMSI	TCS
128	Y17AEE403	ANKAMREDDY SIVA	TCS
129	Y17AEE415	CHANDRA MOULI CHAPPA	TCS
130	Y17AEE402	ALURI NAVEEN	TCS
131	L18AEE561	YENUMULA SIVAIAH	TCS
132	L18AEE527	KOTA GOPAL KRISHNA	TCS
133	Y17AEE419	DUDDU MEGHAMALA	TCS
134	Y17AEE488	SIRASANI TRIKOTESH	valued epistemics pvt.ltd
135	L18AEE534	M SANDEEP VENKATA KUMAR	VERZEO
136	L18AEE556	V D V SRI RAM	VERZEO
137	L18AEE557	Y JEEVAN TEJA	VERZEO
138	Y17AEE401	A DIVYA	VERZEO
139	Y17AEE404	ANNADATA THOSHITA VEDA SILPA	VERZEO
140	Y17AEE406	B RAMANI	VERZEO

> First Prize at Vignan Nirula Tnstitute of Technology

> First Prize at Chalapathi Institute Of Tecnology

>Second prize at RVR&JC college of engineering

>Third Prize at Bectagon 2K20 by BEC.

>second Prize at VVIT Youth fest

These are some of Achievements in the Project EXPO conducted by different colleges.

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> First Prize at Vignan Nirula Tnstitute of Technology

> First Prize at Chalapathi Institute Of Tecnology

>Second prize at RVR&JC college of engineering

>Third Prize at Bectagon 2K20 by BEC.

>second Prize at VVIT Youth fest

These are some of Achievements in the Project EXPO conducted by different colleges.

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BATCH: 2017-2021

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A project Report

HYBRID TWO-WHEELER SOLAR ELECTRIC MOTORCYCLE

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ABSTRACT

Different electric motors are studied and compared to see the benefits of each motor and the one that is more suitable to be used in the electric vehicle (EV) applications. There are five main electric motor types, DC, induction, permanent magnet synchronous, switched reluctance and brushless DC motors are studied. Although the induction motors technology is more mature than others, for the EV applications the brushless DC and permanent magnet motors are more suitable than others. The use of these motors will result in less pollution, less fuel consumption and higher power to volume ratio. The reducing prices of the permanent magnet materials and the trend of increasing efficiency in the permanent magnet and brushless DC motors make them more and more attractive for the EV applications. An Electric Vehicle is a vehicle controlled by an electric motor and is run utilizing the power put away in the batteries. Electric Vehicle was fabricated soon after the first DC power motor was introduced and consequently has longer history than a great many people figure out. Pertaining to the growing innovation in Electric Vehicle system, turned out to be critical to get a far-reaching comprehension of the criteria connected in determination of electric motors. That the use of electric motor has been varied from manufacture to manufacture. An expanding biological mindfulness and the lack of non-renewable energy source assets are solid motivations to grow progressively effective vehicles, with lower fuel utilization however without lessening driving solace indicate references by Thanh Anh Huynh et Al, 2018. Hence, various types of electric motors are currently utilized depending upon the power requirement.

The battery management system (BMS), what are different parts of it, several methods used in this project report addresses the several battery management systems and their advantages & disadvantages. Among all the conventional methods, how the solar- powered balancing method is most efficient is justified. This method is based on three modes: Solar-balancing mode, in this mode, the solar panel balance the battery cells directly. This mode can be used in sunny weather condition and when the vehicle is in running, the discharge rate of the battery is high. The cells with the lowest SOC which is detected by the control unit can be charged by a solar panel. The second mode is Storage balancing mode, this mode is used in rainy or cloudy weather conditions or during the night when the solar panels are not able to generate sufficient

Modeling and Simulation of a Micro-grid connected Solar PV System

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1.ABSTRACT

The growing energy demand in developing nations has triggered the issue of energy security. This has made essential to utilize the untapped potential of renewable resources.

Grid connected PV systems have become the best alternatives in renewable energy at large scale. Performance analysis of these grid connected plants could help in designing, operating and maintenance of new grid connected systems.

In 2012, the Ministry of Electricity and Renewable Energy (MERE); began promoting the system of 'Feed-in Tariff' in billing. The introduced system allows the user to generate electricity through solar panels mounted on the roofs of residential buildings and governmental organizations and tied to the grid.

To benefit from MERE's approach, the National Water Research Center (NWRC) (Qanatir, Egypt) set up a pilot rooftop 91 kW PV system. All the generated electricity is fed into the 220 V, 50 Hz low voltage grid serving NWRC premises.

In this manuscript a MATLAB Simulink model is constructed mimicking a detailed representation of the system tied either to the local low voltage grid or to the national high voltage grid. The aim of such modeling effort is to provide early evaluation of the system performance.

The economical savings of both scenarios are compared based on the new billing system. Results show that the current system saves 100 thousand L.E./year, while tying the system to the national grid will save 235.8 thousand L.E./year

Brushless DC Motor Fed By Six Step Inverter

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ABSTRACT

Permanent Magnet Brushless DC motors have a very wide area of applications due to their higher efficiency and easy control strategies. For controlling the BLDC motors. We use three phase bridge converters. In BLDC motors only two-phases are supplied and the third phase is kept off in which two phases are to be supplied is determined on the basis of the position of the rotor. Based on the position of the rotor, switching devices in the inverter are commutated for every 60^0. Rotor position sensors are used to sense the position of the rotor at every instant of time.

In this paper speed control of three phase BLDC motor by six switching inverter. It is an effective try on reducing cost. A speed regulator is used to control the DC bus voltage. The inverter gates signals are produced by decoding the Hall effect signals of the motor. The three-phase output of the inverter are applied to the PMSM block's stator windings. In order to verify the proposed topology the Brushless DC motor fed by six step Inverter is to be simulated.

IOT BASED BILL MONITORING OF SMART ENERGY METER

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ABSTRACT

We see a person standing in front of our house from electricity board, whose duty is to read the energy meter and handover the bills to the owner of that house every month. This is nothing but meter reading. According to that reading we have to pay the bills. The main drawback of this system is that person has to go area by area and he has to read the meter of every house and handover the bills. Many times errors like extra bill amount , or notification from electric board even though the bills are paid are common errors. To overcome this drawback we have come up with an idea which will eliminate the third party between the consumer and service provider, even the errors will be overcome.

In this project the idea of smart energy meter using IoT,Arduino have been introduced. In this method we are using Arduino atmega328 because it is energy efficient i.e. it consume less power, it is fastest and has two UARTS. Energy meters which is already installed at our houses are not replaced, but a small modification on the already installed meters can change the existing meters into smart meters. The use of GSM module provides a feature of notification through SMS. One can easily access the meter working through web page that we designed. Current reading with cost can be seen on cloud. Automatic ON & OFF of meter is possible. Threshold value setting and sending of notification is the additional task that we are performing.

A Project of the Report Entitled

Two-Stage Grid-Connected Inverter for PV Systems

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ABSTRACT

In this study, a two-stage grid-connected inverter is proposed for photovoltaic (PV) systems. The proposed system consist of a single-ended primary-inductor converter (SEPIC) converter which tracks the maximum power point of the PV system and a three-phase voltage source inverter (VSI) with LCL filter to export the PV supplied energy to the grid. The incremental conductance (IC) method with novel variable step algorithm is used as maximum power point tracking algorithm. Thus, tracking speed and accuracy is improved. A sliding-mode control (SMC) strategy is used to control the inverter stage. Obtained simulation results show that proposed system tracks the maximum power point of the PV system and injects sinusoidal currents to the grid.

DETECTION OF TRANSMISSION LINE FAULTS IN THE PRESENCE OF STATCOM USING WAVELETS

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ABSTRACT

In this paper, wavelet transform technique is applied to detect fault in the transmission line with flexible alternating current transmission (FACTS) device. Presence of FACTS device changes the system impedance and hence makes it difficult to detect faults on the line which may result into maloperation of relay. Three phase currents are monitored at both ends of the transmission line using global positioning system synchronizing clock. Wavelet transforms, which is very fast and sensitive to high frequency signal is used to extract transients in these line currents for fault detection. Fault index is calculated based on the sum of local and remote end detail coefficients and compared with threshold value to detect the fault.

Proposed technique is tested for various faults and fault inception angles with and without static synchronous compensator (STATCOM) device. Simulation results are presented showing the selection of proper threshold value for fault detection.

COMPARATIVE PERFORMANCE ANALYSIS OF BOOST CONVERTER AND LUO CONVERTER FOR ELECTRIC VEHICLE CHARGING

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ABSTRACT

This Report provides overview of recent work of electric vehicle charging in the region. The paper describes the development of electric vehicle charging system using the Boost converter and Luo Converter and compare the performance for both converters. This report provides the comparison of both converters in the EV charging system in order to increase the efficiency of the charging system. The comparison of both converters provides the efficient strategy for the electric vehicle charging system.

Fault Detection and Analysis of three-phase induction motors using MATLAB Simulink model

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ABSTRACT

Computer simulation of electrical motor operation is especially helpful for gaining an insight into their dynamic behavior and electro-mechanical interaction. An acceptable model permits motor faults to be simulated and therefore the amendment in corresponding parameters to be expected while not physical experimentation. This planned approach presents each a theoretical and experimental analysis of uneven stator coil winding and rotor faults in induction machines. A three-phase induction motor was simulated and operated below traditional healthy operation, with section to section winding fault, section to ground winding fault and short circuit winding fault and with voltage imbalances between phases of offer. The results illustrate sensible agreement between each simulated and experimental results.

For analysis of fault condition typical methodology of quick Fourier transform area unit initial use and take a look at for various winding fault conditions. Then fuzzy logic controller supported fuzzy rule base style for analysis of stator coil winding faults. From each the conditions it clear that the FFT analysis solely calibrate total harmonics distortion (THD) of faulted voltage and current signal of 3 section induction motor input facet (stator side). Whereas fuzzy logic controller directly analyzed the sort of the fault on induction motor stator coil winding.

Motor model and fault analysis system style in MATLAB 2015 Simulink computer code. Victimization this computer code, motor parameter analysis, fault cases analyzed.

A Final Project Report on

SIMULATION OF PATIENT MODEL WITH KIDNEY CHRONICAL DISEASE AND BLOOD DIALYSIS OBSERVATION OF PATIENT

Submitted in the partial fulfilment of the requirements for the award of the degree of

Bachelor of Technology

In

Electrical & Electronics Engineering

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ABSTRACT

The severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), also known as coronavirus disease (COVID-19) is a major pandemic challenging health care systems around the world. The optimal management of COVID-19 infected patients is still unclear, although the consensus is moving towards the need of a biphasic approach. During the first phase of the disease (from onset of the symptoms up to 7-10days) viral-induced effects are prominent with the opportunity to institute antiviral therapy. In the second inflammatory phase of the disease, immunosuppressive strategies (for example with glucocorticoids or anti-cytokines drugs)may be considered. This latter stage is characterized by the development of progressive lung involvement with increasing oxygen requirements and occasionally signs of the haemophagocitic syndrome. The management of the disease in patients with kidney disease is even more challenging, especially in those who are immunosuppressed or with severe comorbidities. Here we present the therapeutic approach employed in Brescia (Italy) for managing kidney transplant and hemodialysis patients with COVID-19. Furthermore, we provide some clinical and physiopathological background, as well as preliminary outcome data of our cohort, in order to better clarify the pathogenesis of the disease and clinical management.

This paper makes an attempt to develop clinical simulation model of chronical interaction and to design an optimal controller to regulate the Blood level in kidney chronical patients. For enhancing the quality of life of the patient, an automated blood dialysis system based on Linear Quadratic Gaussian (LQG) control algorithm is suggested, and to justify its efficacy a comparative analysis with conventional Proportional-Integral-Derivative (PID) control tuned using the Ziegler–Nichols method and optimal H_∞ control based on solutions of Riccati equations is presented. For designing of the controller, a ninth-order linearised state-space model of the blood interaction process of an chronical diseased patient has been used. The controller performances are assessed in terms of ability to track a normoglycaemic set point of 81 mg/dL (4.5 mmol/lL) in the presence of Gaussian and stochastic noise.

STUDY OF DOUBLY-FED INDUCTION GENERATOR (DFIG) BASED WIND TURBINE IN SIMULATION

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BACHELOR OF TECHNOLOGY

IN

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ABSTRACT

This paper presents the power outputs control and DC-link voltage regulation of the Doubly Fed Induction Generator (DFIG) for the variable speed Wind Energy Conversion System (WECS). The DFIG control structure consists of the two four quadrant IGBT PWM converters are connected in AC-DC-AC in order to control the power outputs of the DFIG.

The dynamic behaviour of DFIG is modelled in the Stator Flux Orientation (SFO) related to the Rotor Side Converter (RSC) and Grid Side Converter (GSC) control strategies. The RSC controls the power flow (the active and reactive power) from the stator of the DFIG to the grid by controlling the rotor currents of the DFIG. The GSC ensures the regulation of the DC-link voltage to the desired value by controlling the grid currents. In this paper, is realized with a conventional PI controller based on SFO vector control, which gives the super-synchronous operation of the DFIG. This control strategy not only improves the efficiency but also maintains almost unity power factor to the grid. The proposed control scheme is simulated and investigated for variations in wind speed and under small disturbance. The effectiveness of the proposed method is verified by developing the simulation model of 1.5 MW in MATLAB-SIMULINK-2014b.

PHYSICS INFORMED NEURAL NETWORKS FOR POWER SYSTEM

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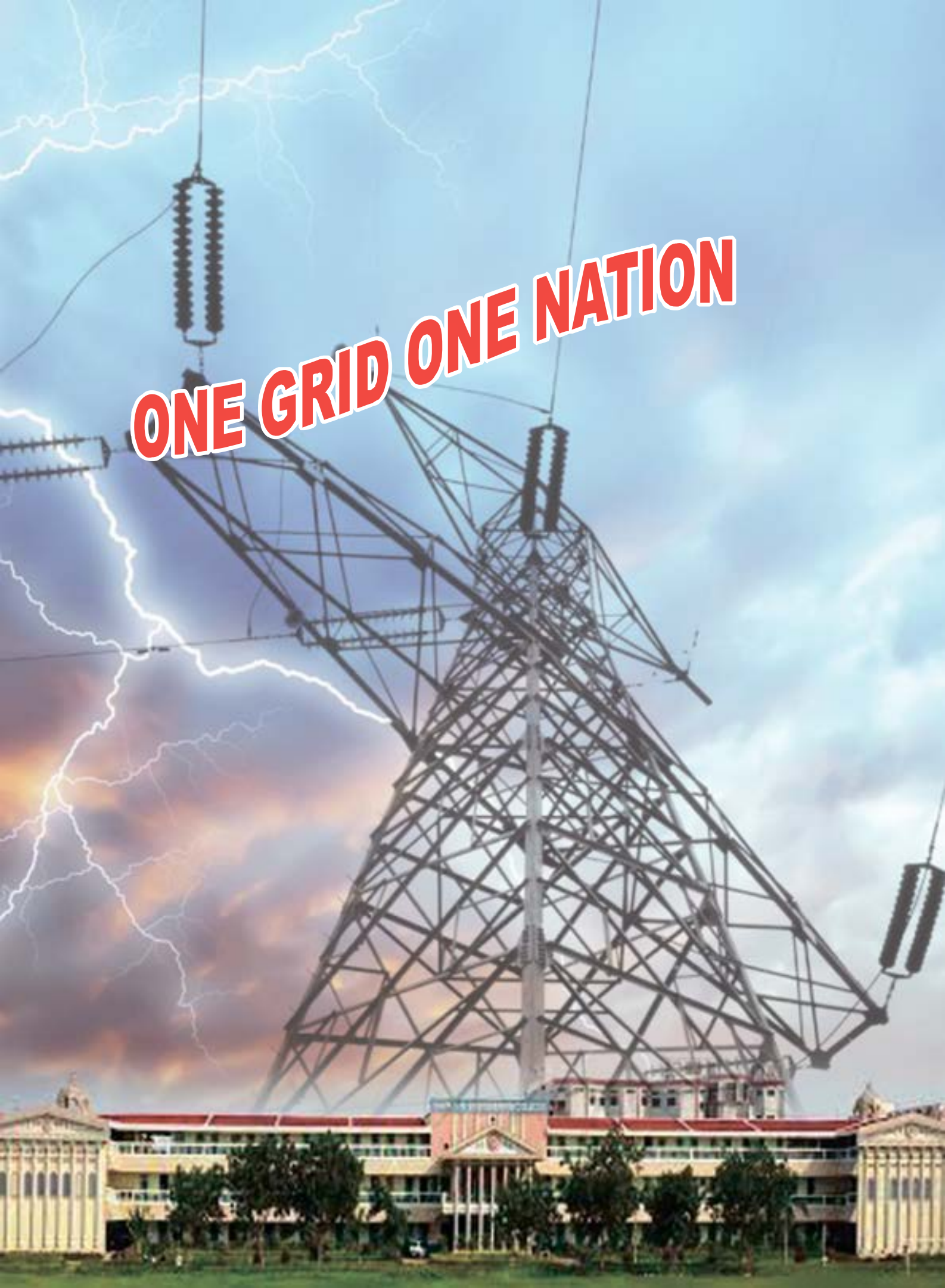
ABSTRACT

This works presents interestingly, as far as anyone is concerned, a structure for physics-informed neural networks in power system applications. Misusing the fundamental actual laws overseeing power systems and enlivened by ongoing improvements in the field of machine learning, this paper proposes a neural organization preparing strategy that can utilize the wide scope of numerical models portraying power system conduct, both in steady-state and in dynamics. Physics-informed neural networks require considerably less preparing information and can bring about less complex neural organization structures, while accomplishing high exactness. This work opens a scope of chances in power systems, having the option to decide dynamic states, for example, rotor angles and frequency, and uncertain boundaries like inertia and damping for a portion of the computational time needed by conventional methods. This paper centers on presenting the structure and features its potential utilizing a single-machine infinite bus system as a controlling model. Physics-informed neural networks are appeared to precisely decide rotor angle and frequency up to multiple times quicker than conventional methods.

Keywords —deep learning, neural organization, power system dynamics, power flow, system inertia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