I-EEE

02.03.2020

ANIMATION

On the 1st of March 2020, an exciting animation competition was held within the college, bringing together talented students who were passionate about creating visually stunning and imaginative animations. The event was filled with excitement and anticipation as participants prepared to showcase their skills and creativity in front of a panel of judges. The atmosphere was electric, with students eagerly cheering and supporting their fellow classmates. As the competition began, students demonstrated their ability to create compelling storylines, dynamic characters, and captivating visual effects. It was a display of artistic talent and technical skill, with each animation showcasing the unique style and creative vision of its creator. The animation competition proved to be an inspiring and memorable event, leaving a lasting impression on everyone who attended.

Convener

Principal

Dr. S. KAMABALA...
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

E.G.S.PILLAY ENGINEERING COLLEGE ,NAGAPATTINAM

(Autonomous)

(Accredited by NBA and NAAC with A Grade)

CIRCULAR

26.02.2020

EGSPEC/FINE ARTS/011/COMPETITION/ 2019-2020

S.No	Competition	Date /time & venue	Staff in charge
1	Animation	02.03.2020/11 am to 12.30 pm & Apj Block	Mr.K.Nandakumar. AP/EEE Mr.B.Amalore Naveen Antony. AP/EEE

Rules & Regulations :

- The animation must be an original creation of the participant.
- The animation must not exceed the time limit specified by the organizers of the competition.
- The animation must not infringe on any copyrights or trademarks.
- Participants can submit only one animation for the competition.
- The animation will be judged based on various criteria, including creativity, originality, technical skill, and storytelling.

Convener

Principal

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

Copy to

1.All HoD's & Dean's
2.All Notice board

E.G.S.PILLAY ENGINEERING COLLEGE ,NAGAPATTINAM

FINE ARTS CLUB (2019-2020)

Event: Annimation

List of Participants

S.no	Name of the students	Department
1.	JOHN MILTON A	EEE
2.	SOMNATH R	EEE
3.	AKSHAYA E	BME
4.	CHANDRAMUKHI N	BME
5.	AAKASH S	MECH
6.	GOWTHAM R	MECH
7.	KABITHA S	CSE
8.	KAMALI N	CSE
9.	NIVETHA S	IT
10.	PARGUNAN L	IT

Faculty incharge

Principal

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

E.G.S.PILLAY ENGINEERING COLLEGE ,NAGAPATTINAM

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03.03.2020

EGSPEC/FINE ARTS/COMPETITION/ 2019-2020

CONGRATULATION TO THE PRIZE WINNERS

The following students are the prize Winners of the competition conducted by **FINE ARTS CLUB:-**

Competition	Prize	Department & Year
Animation	I	CSE
	II	EEE
	III	IT

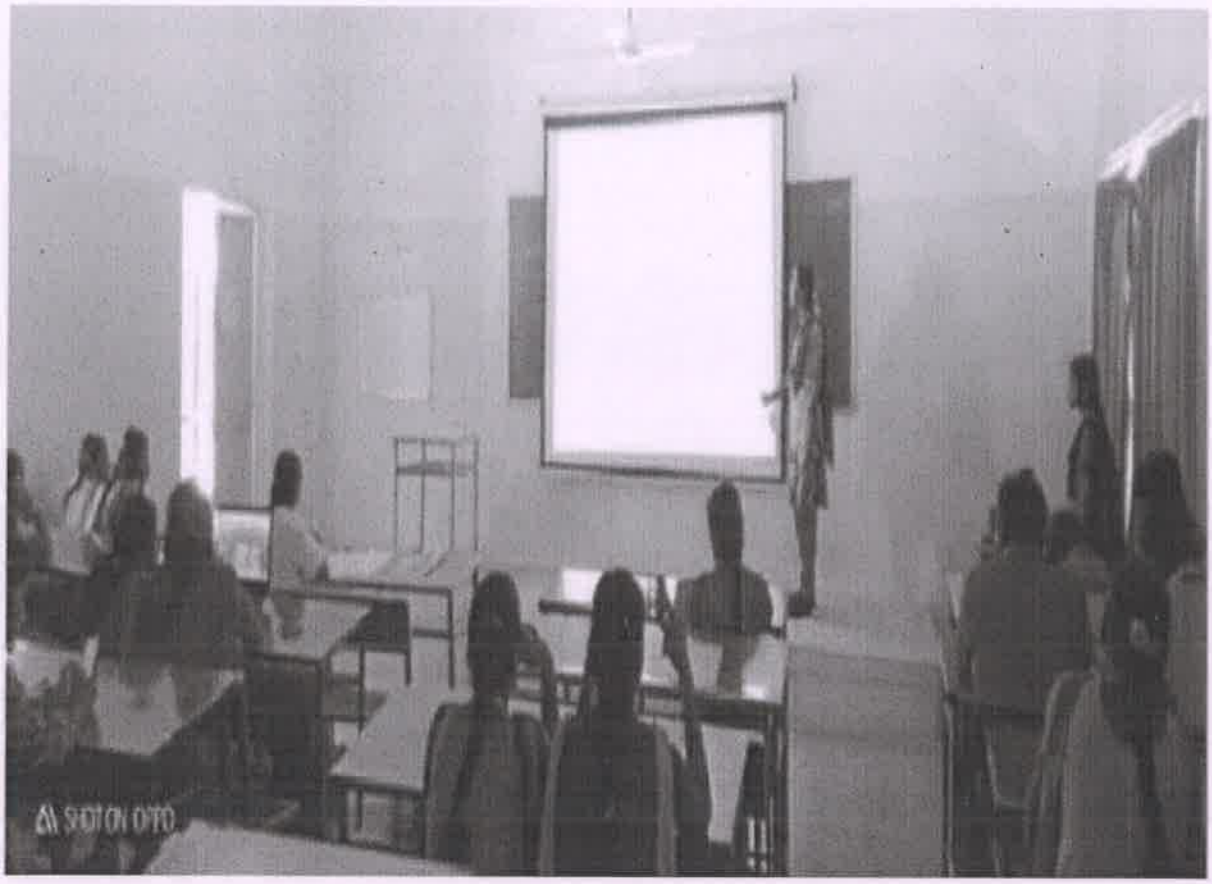
Convener

Principal

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

Copy to

1.All HoD's & Dean's
2.All Notice board



Student Animation Presentation

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

EGS PILLAY
ENGINEERING COLLEGE
Nagapattinam - 611002

(Approved by AICTE, Affiliated to Anna University (Autonomous))

(Accredited by NAAC with "A" Grade)

(Accredited by NBA)

Singing and Instrumental music Competition

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

REPORT

"Music is a world within itself, with a language we all understand." E.G.S. Pillay Engineering College, Nagapattinam, organized a singing and instrumental music competition to students. To Unite Hearts through Music, the competition was held on the 2nd of March 2020 at 10:00 am at auditorium. The aim of this competition was to encourage the passion for the singing of the students and provide a place to showcase their talent. The event received an overwhelming response. The song could be in English, Tamil, Hindi or any native language. The participants put forth their enthralling performances and made the event a massive success. All the budding singers, through their melodious voices, evoked the feeling of patriotism. The overall experience was an enthralling one for everyone.

JUDGES

Dr. J.Vanitha, HOD /MCA and Dr. V.Mohan , HoD /EEE are the Judges for the event.

WINNERS

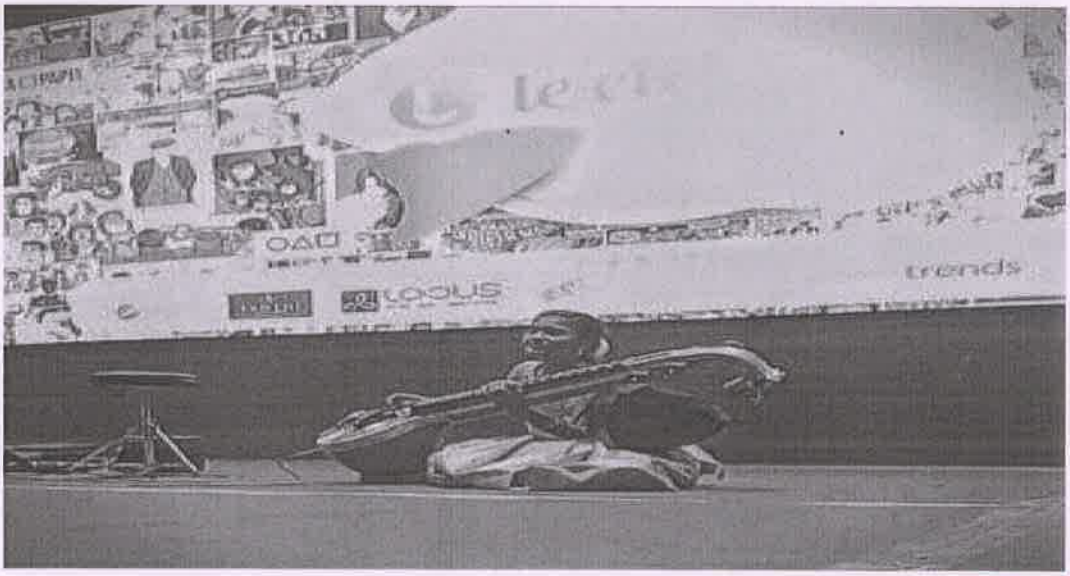
The top three participants of the competition is

1. Rowan jihnbritto E19BM305/BME-1 st Prize
2. KEERTHIKA J (E17CSR048)/CSE– 2nd Prize
3. SANTHOSH A(E18MER062)/Mech–3 rd prize

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

E.G.S. PILLAY ENGINEERING COLLEGE

SNAP SHOT - SINGING AND INSTRUMENTAL MUSIC COMPETITION



Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

	(An Autonomous Institution, Affiliated to Anna University, Chennai) Nagore Post, Nagapattinam – 611 002, Tamilnadu.	

CIRCULAR dt.24.02.2020

We are going to conduct an event on "SINGING AND INSTRUMENTAL MUSIC COMPETITION" on 2nd of March 2020. In this regard all the interested students are requested to attend this event.

PRINCIPAL

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

Cc to: Principal Office, Circulate to all departments.

E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM
LIST OF STUDENTS PARTICIPATED IN THE SINGING AND INSTRUMENTAL MUSIC

COMPETITION

Sl.no	REGISTER NUMBER	STUDENT NAME
1.	DHATCHAYINI S	E19BMR010
2.	HASAN MOHYUDEEN N A	E19BMR015
3.	Rowan jihnbritto	E19BM305
4.	MUKESH B	E19CER042
5.	RAMYA S	E19CER052
6.	THATCHAYANI K	E19CER070
7.	KEERTHIKA J	E17CSR048
8.	NOORMOHAMED M	E18CSR051
9.	SINEKA S	E19CSR103
10.	AJITH KUMAR M	E19ECR009
11.	HARI RAM PRASATH	E19ECR032
12.	HARIS KUMAR R	E19ECR033
13.	ABINASH U	E18ECL301
14.	ASHOK KUMAR R	E19EEL302
15.	TAMIL POONGULZHALY I	E18EEL317
16.	MITHUNA C	8208E21PEF013
17.	KAVIYA K	E19ITR019
18.	SHOBANA M	E19ITR043
19.	VINOTH P	E19ITR063
20.	SUJITHA.U	E17ITL304
21.	YOGESHWAR R.S	E19MEL312
22.	ARAVIND A	E18MER007
23.	AJAY K	E18MEL301
24.	LOGESHWAR M	E18MEL317
25.	UDHAYAKUAMR .P	E18MEL342

PRINCIPAL

Dr. S. RAMABALAN, M.E., Ph.D
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM

DATE: 4/03/2020

CONGRATULATIONS

The management, Principal and Staff members heartily congratulate students for Participating on "SINGING AND INSTRUMENTAL MUSIC COMPETITION on 02/03/2020.

PRINCIPAL

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

01.03.2020

KABBADI FOR MEN AND WOMAN

On the 1st of March 2020, an exciting Kabbadi match for men took place, bringing together some of the finest players from the students.The event was filled with anticipation and excitement as the players prepared to showcase their skills and compete for victory. The atmosphere was electric, with enthusiastic supporters filling the stands, cheering and chanting for their favorite teams. As the match began, the players demonstrated their agility, strength, and strategic thinking, making every move count. It was a thrilling display of athleticism and teamwork, with both teams putting up a fierce fight until the very end. The Kabbadi match proved to be a memorable event, leaving a lasting impression on everyone who witnessed it.

Convener

Principal

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

E.G.S. PILLAY ENGINEERING COLLEGE, NAGAPATTINAM

(Autonomous)

(Accredited by NBA and NAAC with A Grade)

CIRCULAR

26.02.2020

EGSPEC/FINE ARTS/011/COMPETITION/ 2019-2020

S.No	Competition	Date /time & venue	Staff in charge
1	Kabbadi for Men	01.03.2020/11 am to 12.30 pm & Auditorium	Mr.K.Nandakumar. AP/EEE Mr.B.Amalore Naveen Antony. AP/EEE
2	Kabbadi for Woman	01.03.202/02:00pm to 03.30 pm & Auditorium	Mr.K.Nandakumar. AP/EEE Mr.B.Amalore Naveen Antony . AP/EEE

Rules & Regulations :

- The objective of the game is to score points by raiding the opponent's court and touching as many defenders as possible without getting caught.
- If the raider manages to touch one or more defenders and return to his own court safely, his team scores a point.
- The defenders can catch the raider to prevent him from returning to his own court, which results in the raider being "out".

Dr. S. RAMABATHAN, M.E., Ph.D.,
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

- A player is also out if he steps out of bounds or if he touches the opponent without making a valid touch.

- The team with the highest score at the end of the game wins. Interested participations are informed to enroll their names Department Fine Arts Club in Charge on or before 28.02.2020

Convener

Principal

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

Copy to

1. All HoD's & Dean's
2. All Notice board
3. To be read in Class Rooms

E.G.S.PILLAY ENGINEERING COLLEGE ,NAGAPATTINAM

FINE ARTS CLUB (2019-2020)

Event: Kabbadi for Men

LIST OF PARTICIPANTS 01.03.2020

S.no	Name of the students	Department
1.	JAISANKAR R	BME
2.	KARAN P	BME
3.	KAVICHELVAN S	BME
4.	KIRANKUMAR K	BME
5.	NAVEEN S	BME
6.	NAVEENKUMAR M	BME
7.	NIRMAL N	BME
8.	MANIKANDAN S	EEE
9.	DINESH S	EEE
10.	ARAVINDH M	EEE
11.	JOHN MILTON A	EEE
12.	SOMNATH R	EEE
13.	SIVASANKAR S	EEE
14.	MATHAN K	EEE
15.	Aakash s	MECH
16.	Gowtham r	MECH
17.	Sriram J	MECH
18.	Dharani.J	MECH
19.	Deena R	MECH
20.	Nagarajan S	MECH
21.	Sriram J	MECH

Faculty Incharge

Principal

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

EGS PILLAY
ENGINEERING COLLEGE
Nagapattinam - 611002

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(Accredited by NAAC with "A" Grade)
(Accredited by NBA)

SPORTS EVENT ON "FENCING FOR WOMEN"

01.03.2020

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002

Ph: 04365 – 251112

Website: http://www.egspec.org

EGS PILLAY
ENGINEERING COLLEGE
Nagapattinam - 611002

(Approved by AICTE, Affiliated to Anna University (Autonomous))

(Accredited by NAAC with "A" Grade)

(Accredited by NBA)

Singing and Instrumental music Competition

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

REPORT

"Music is a world within itself, with a language we all understand." E.G.S. Pillay Engineering College, Nagapattinam, organized a singing and instrumental music competition to students. To Unite Hearts through Music, the competition was held on the 2nd of March 2020 at 10:00 am at auditorium. The aim of this competition was to encourage the passion for the singing of the students and provide a place to showcase their talent. The event received an overwhelming response. The song could be in English, Tamil, Hindi or any native language. The participants put forth their enthralling performances and made the event a massive success. All the budding singers, through their melodious voices, evoked the feeling of patriotism. The overall experience was an enthralling one for everyone.

JUDGES

Dr. J.Vanitha, HOD /MCA and Dr. V.Mohan , HoD /EEE are the Judges for the event.

WINNERS

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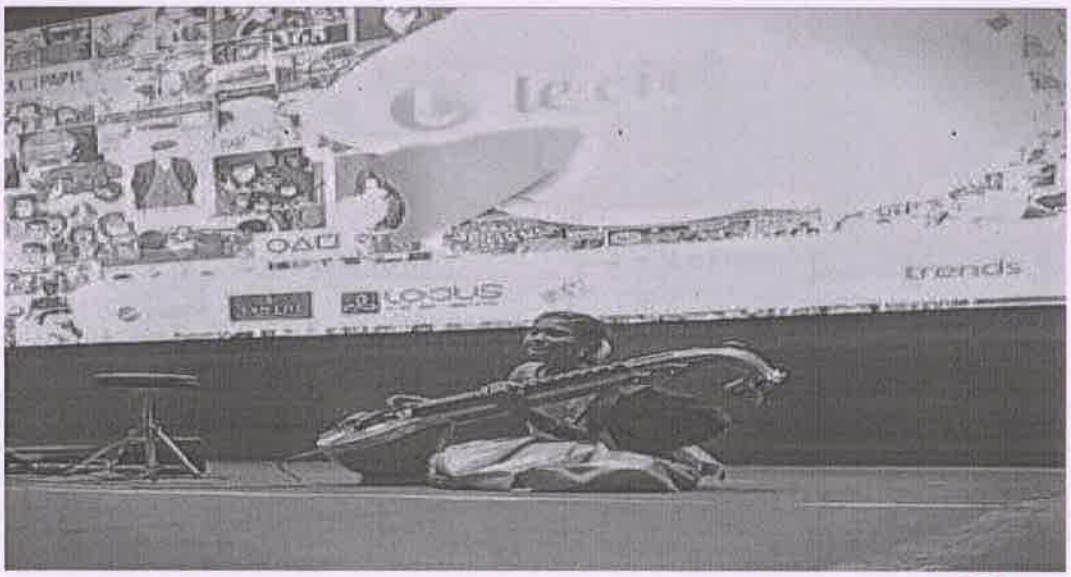
Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

E.G.S. PILLAY ENGINEERING COLLEGE

SNAP SHOT - SINGING AND INSTRUMENTAL MUSIC COMPETITION



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PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

	(An Autonomous Institution, Affiliated to Anna University, Chennai) Nagore Post, Nagapattinam – 611 002, Tamilnadu.	

CIRCULAR dt.24.02.2020

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PRINCIPAL

Cc to: Principal Office, Circulate to all departments.

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM
LIST OF STUDENTS PARTICIPATED IN THE SINGING AND INSTRUMENTAL MUSIC

COMPETITION

Sl.no	REGISTER NUMBER	STUDENT NAME
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2.	HASAN MOHYUDEEN N A	E19BMR015
3.	Rowan jihnbritto	E19BM305
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6.	THATCHAYANI K	E19CER070
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18.	SHOBANA M	E19ITR043
19.	VINOTH P	E19ITR063
20.	SUJITHA.U	E17ITL304
21.	YOGESHWAR R.S	E19MEL312
22.	ARAVIND A	E18MER007
23.	AJAY K	E18MEL301
24.	LOGESHWAR M	E18MEL317
25.	UDHAYAKUAMR .P	E18MEL342

PRINCIPAL

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM

DATE: 4/03/2020

CONGRATULATIONS

The management, Principal and Staff members heartily congratulate students for Participating on "SINGING AND INSTRUMENTAL MUSIC COMPETITION on 02/03/2020.

PRINCIPAL

Dr. S. RAMABALAN, M.E.
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

03.02.2020

Nagapattinam

From,

PJ.SURESH BABU
ASSOCIATION COORDINATOR,
DEPARTMENT OF EEE,
E.G.S. Pillay Engineering College,
Nagapattinam.

To,

The Principal,
EGSPEC,
Nagapattinam.

Sir,

SUB: Requesting for Symposium Permission

As we planned to conduct the National Level Technical Symposium on 17thFEB 2020.Please permits us to conduct the symposium on that day. Kindly do needful.

Thank you

Yours truly

P.J.SURESH BABU

Date: 03.02.2020

Place: Nagapattinam.

HOD

Dr. V. Mohan

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

E.G.S.PILLAY ENGINEERING COLLEGE- NAGAPATTINAM – 611002
Department of Electrical & Electronics Engineering
CALONICS '20
(A National Level Technical Symposium)

On behalf of department of EEE, we take an immense glad in inviting you for the function of One day National Level Technical Symposium **CALONICS'20 on17th February2020 at 9.30 am at SJ Block SJB 202.**

AGENDA

Prayer **Song**	
Welcomes address	Mr. P. J. Suresh Babu, Association Coordinator.
Presidential **Address**	Shri.S.Paramesvaran, M.Com, FCCA (London) Secretary, E.G.S. Pillay Group of Institutions.
Felicitation Address	Dr.S.Ramabalan, M.E., Ph.D., Principal, EGSPEC.
Felicitation **Address**	Dr.V.Mohan, M.E., Ph.D., Head of the .Department.
Hon**oring the Chief Guest**	
Inaugural Address	Dr.G.Giftson Samuel, M.E.,Ph.D., Principal, **Sir** Isaac **Newton** College **of** Engineering **&** Technology, Nagapattinam.
Release **of** Magazine **& News letter**	
Vote of Thanks	Mr.Bavithkumar IV Year EEE, Student Member.
National Anthem	

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)
NAGAPATTINAM – 611 002. TAMILNADU, INDIA
Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai
(Accredited by NAAC with 'A' Grade and NBA)
Email: startup@egspec.org website: www.egspec.org Ph: 04365-251112

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
(ZEPRA)
Zealous Electric Power Raising Association

CIRCULAR

REF: EGSPEC/EEE/FEB-2022

We are happy to inform you that the Department of Electrical & Electronics Engineering is Organizing a National level Technical Symposium "CALONICS -20 " on 17th Feb.2020 from 9.30am to 4.30pm in Auditorium. All the interested students and faculty members are invited to this Programme.

ASSOCIATION COORDINATOR

HOD/EEE

Copy to: The Secretary, The principal, The vice Principal, The Registrar, All HODs, Transport, T&P Notice Board & File

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

E.G.S. PILLAY ENGINEERING COLLEGE- NAGAPATTINAMDepartment of Electrical & Electronics Engineering

CALONICS '20

(A National Level Technical Symposium)

Report

ZEPRA Means Zealous Electric Power Raising Association

This was inaugurated in the academic year 2007-2008

Every Year ZEPRA conducted various student centric activities such as Seminar, Workshops, Non Technical Events and Symposium

The main objectives of ZEPRA are listed below:

- To organize various Programs for students upliftment
- To motivate students to participate various Technical Events.

This academic year, we conducted four workshops and 6 invited talks and one value added Course. After that, the Association of department of EEE (ZEPRA) decided to conduct a national level technical symposium on Last week of January 2020. The various committees are formed to the successful conduction of such activities. Laterally they decided the date of the function at 17.02.2020. The student committee and staff members are so selected under the guidance of department Head. The association in charge coordinates all the activities that related to the function. The dispatch committee decided to send the invitation around 150 colleges. Out of 150 colleges, we have received 80 papers through mail as well as hard copy

The technical committee selected 24 papers for further presentation. The selection purely based on innovative thinking of the participants, script presentation etc. All the 48 authors are informed to participate the national event CALONICS20. In addition, we decided to conduct various non-technical events such as quiz, circuit debugging, connexion and Project Expo. This event isenlightening your wisdom to success.

Association coordinator

HOD/EEE

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

E.G.S. PILLAY ENGINEERING COLLEGE, NAGAPATTINAM
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
Calonics-20
Committee members list

Convener: Dr.V.Mohan
Association In charge:Mr.P.J.Suresh Babu

Student Coordinators

1. Ms.K.M.KavyaShree-IV EEE – Student coordinator
2. Saivignesh – III EEE - Student coordinator

Registration & Reception Committee

Staff in charge:**Mrs.S.Latha**

Supporting Staff:**Ms.B.Durgalaksmi**

Student Members:

P.Bavithkumar-IV EEE

M.Ukendhiran-III EEE

Design Committee

Staff in charge:

Mr.K.Krishnaram

Magazine& Boucher, News letter, Invitation

Student Members:

L.Praveen- IV EEE

S.Sadasivam- III EEE

R.Venkatesh-II EEE

Paper Scrutinizing & Evaluating Committee

Staff in charge: **Dr.T.Suresh Padmanabhan**

Student Members

S.Ganesh-IV EEE

R.Santhosh-III EEE

S.Agathiyan-II EEE

Comparing committee

Staff in charge:**Mrs.S.Latha**

Student Members

N.Akshaya Devi--IV EEE

S.NeethuSatheesh-III EEE

Project Expo

Staff in charge:**Mr.K.Krishnaram**

Student Members

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

B.Sridhar-IV EEE
M.Sivanesan-III EEE
J.Shalini-IIEEE

Circuit Debugging
Staff in charge:Mrs.S.Latha & Mrs.M.Ramya
R.Kalaivani-IV EEE
Finance committee
Staff in charge: Mr.**B.A.Naveen Antony**
P.Sabeena-IV EEE
S.Naveenkumar - III EEE
Food **Committee**
Staff in charge: Mr.**K.Nandakumar**
R.Santhosh-IV EEE
B.Gobinath-III EEE
S.Naveenkumar-III EEE
M.Balaguru-II EEE

Association coordinator

HOD /EEE

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

REAL-TIME EMBEDDED HYBRID CONTROL SOFTWAREFOR INTELLIGENT CRUISE CONTROL APPLICATIONS

R.B.Mathi,&S.Newma -Beau,
FRANCIS XAVIER ENGINEERINGCOLLEGE,TIRUNELVELI.

ABSTRACT: Embedded systems various application like chocolate vending machine for children. Provide money through ATM for college students for going movies. For homemakers it's used for home appliance purchase. There are various applications. We concern ourselves with the development and implementation of model-based, real-time, embedded, hybrid control software. In particular, we target intelligent cruise control applications, including Adaptive Cruise Control (ACC), in which a forward looking range sensor (radar or Lidar, usually) is used to follow a vehicle, and Cooperative ACC (CACC), a variation in which wireless communications are used to supplement the forward looking sensor. We discuss modeling and simulation as well as experimental results obtained on automated vehicles. Our approach emphasizes the maintenance of a single model throughout the development process, with particular emphasis on "tight-loop" verification and testing at each step.

THE LOAD MONITORING AND PROTECTION ON ELECTRICITY POWER LINES USING GSM NETWORK

Kayalvizhi.sSaraswathi.m
Kayalvizh2594@gmail.com,
A.V.C.COLLEGE OF ENGINEERING

ABSTRACT: The load monitoring and protection on electrical power lines are important factors in Electricity Field. The Paper proposes a monitoring of Load and Power lines using SMS based GSM Technology. The Proposed methodology is designed and implemented using mobile embedded system to monitor and record load fluctuations with respect to current and voltage in electric power lines and it also controls the same when line breaks during high load. The proposed on-line monitoring system integrates a Global Service Mobile (GSM) Modem, withstand along single chip microcontroller and sensor packages. It is installed at the site and above mentioned parameter are recorded using -in -8-channel analog to digital convert (ADC) of the embedded system .The acquired parameters are processed and recorded in the system memory. If there is any abnormality according to some predefined instruction and policies that are stored on the embedded system EEPROM then GSM alerts to concerned control room immediately. This mobile system will help the utilities to optimally utilize the protection of power line and identify problems before any catastrophic failure. This system provides flexible control of load parameters accurately and also provides effective means for rectification of faults if any abnormality occurs in power lines using SMS through GSM network.

A NOVEL MULTILEVEL INVERTER BASED ON SWITCHED DC SOURCE

J.Balakumaran, &Gowtham

RVSCET KARAIKAL

ABSTRACT:This paper presents a multilevel inverter that has been conceptualized to reduce component count, particularly for a large number of output levels. It comprises floating input dc soufces alternately connected in opposite polarities with one an- other through power switches. Each input dc level appears in the stepped load voltage either individually or in additive combinations with other input levels. This approach results in reduced number of power switches as compared to classical topologies. The working principle of the proposed topology is demonstrated with the help of a single-phase five-level inverter. The topology is investigated through simulations and validated experimentally on a laboratory prototype. An exhaustive comparison of the proposed topology is made against the classical cascaded H-bridge topology.

MATLAB /SIMLINK BASED CLOSED LOOP CONTROL OF BI-DIRECTIONAL DC - DC CONVERTER

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ABSTRACT: This paper presents a closed loop control of isolated boost full bridge DC-DC converter for used in Medium and High power application. Zero voltage switching is applied in all switches. The DC input voltage is stepped up by using a boost converter. It is inverted using a full bridge inverter. The transformer is used to produce a higher voltage in secondary voltage side. The a.c. Voltage is converted into d.c. Voltage with the help of rectifier. The open loop model, there is no possibility of maintaining a constant voltage with a variation of input voltage. In closed loop system is maintaining a constant voltage is applied with various value of input voltage. The Mat lab 7.3 version is used for simulating the open loop and closed loop full bridge DC – DC converter is verified. The isolated boost converter can operate at an input voltage of 24V and the output voltage 200-260 V and average efficiency of 89% at 55 kHz switching frequency.

Live Life To The Fullest-Robert Louis Stevenson

ADJUSTABLE FREQUENCY-DUTY-CYCLE HYBRID CONTROL STRATEGY FOR FULL-BRIDGE SERIES RESONANT CONVERTERSIN ELECTRIC VEHICLE CHARGERS

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ABSTRACT: The efficiency of zero voltage switching half-bridge series resonant inverter can be decreased under certain load conditions due to the high switching frequencies required. The proposed variable frequency duty cycle (VFDC) control is intended to improve the efficiency in the medium and low output power levels because of the decreased switching frequencies. The study performed in this letter includes, in a first step, a theoretical analysis of power balance as a function of control parameters. In addition, restrictions due to snubber capacitors and dead time, and variability of the loads have been considered. Afterward, an efficiency analysis has been carried out to determine the optimum operation point. Switching and conduction losses have been calculated to examine the overall efficiency improvement. VFDC strategy efficiency improvement is achieved by means of a switching-frequency reduction, mainly at low-medium power range, and with low-quality factor loads. Domestic induction heating application is suitable for the use of VFDC strategy due to its special load characteristics. For this reason, the simulation results have been validated using an induction heating inverter with a specially designed load.

A NEW TREND INRENEWABLE WIND ENERGY

R.DeviAnusuya, &A.Nallammal.

FRANCIS XAVIER ENGINEERING COLLEGE,TIRUNELVELI.

ABSTRACT:-The Renewable energy is .the term used to describe sources of energy. that are considered to be environmentally friendly and non-polluting, such as geothermal, wind, solar, and hydro.In our presentation we would like to give a note on the new trend in wind energy. That innovative invention in wind is Magenn Air Rotor System (MARS).

We presented a brief explanation about the following things.

- Drawbacks of conventional wind turbine.
- Invention & Construction of MARS.
- Operation of MARS
- Present & Future MARS.
- Advantages & applications of MARS.

Do or Do Not, There Is No Try-Yoda

WIRELESS TRANSMISSION OF ELECTRICITY – DEVELOPMENTAND POSSIBILITY

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ABSTRACT: In the present paper the various technologies available so far for wireless transmission of electricity and the need for a Wireless System of Energy Transmission is being discussed to find its possibility in actual practices, their advantages, disadvantages and economical consideration. This paper is mainly concentrated on : i) The most popular concept known as Tesla Theory, ii) The microwave power transmission(MPT) called Solar power satellite, and iii) The highly efficientfiber lasers for wireless power transmission. Many concepts, research papers, patents are available on wireless transmission of electricity but the commercial technologies are yet to be materialized. The paper also discusses the possible ways to get useful and practical high aperture efficiency Key words – Wireless transmission, Tesla theory, Microwave power transmission, Fiber lasers, Collaborative research.

ADVANCED GEOTHERMAL ENERGY FOR GENERATION OF ELECTRICITY IN INDIA

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ABSTRACT: Heat is naturally present everywhere in the earth. For all intents and purposes, heat from the earth is inexhaustible. Water is not nearly as ubiquitous in the earth as heat. Indian geothermal provinces have the capacity to produce 10,600 MW of power- a figure which is five times greater than the combined power being produced from non-conventional energy sources such as wind, solar and biomass. But yet geothermal power projects have not seen the sunlight due the availability of 192 billion tones of recoverable coal reserves. With increasing environmental problems with coal based projects, Indian has to depend on clean, cheap, rural based and eco-friendly geothermal power in future. Due to technical and logistic problems with other non-conventional energy sources, present industrialist's mood is upbeat and IPPs are showing keen interest in developing geothermal based power projects. With the existing open economic policies of the Govt., and large incentives given to non-conventional energy sectors, the future of geothermal energy sector in India appears to be bright.

"NANOGENERATORS"

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ABSTRACT: Our body produces energy in various forms. Just a small fraction of this energy is sufficient to power implanted medical devices like pacemakers. When we take a closer look at the tiny power plants, harnessing the energy of our body we could find nanotechnology has huge potential to achieve this. Nano size machines will need a power source, that is better than batteries and measures just billionths of a meter. Arrays of piezoelectric Nano wires could capture and transmit that waste to nano devices. These power plants are called "Nano generators". It is found that when an atomic force microscope (AFM) bends a straight, vertical nanowire; a strain field is established, with the stretched surface showing positive strain and the compressed surface showing negative strain. As the tip of the AFM scans over the nano wires for each contact position there is voltage varying from 0-6.5mv. The piezoelectric effect createsan electric electric field inside the nanowires's volume. A rectangular electrode with ridged underside sits atop the nanowires and moves side to side in response to external forces such as vibration, human pulse and acoustic waves. The human body is a source of power, a small fraction of this energy when converted into electricity is sufficient to power many types of nanodevices. Other than body movement , various routes are being tried by researchers for power Conventional batteries make the nanoscale systems too large, and the toxic contents of batteries limit their use in the body. Other potential power sources also suffer from significant drawbacks.

APPLICATION OF FACTS

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How FACTS Controllers BenefitAC Transmission Systems

ABSTRACT: This paper provides a summary of one of the three planned presentations on the topic of "FACTS Fundamentals," for a session sponsored by the DC and FACTS Education Working Group, under the DC and FACTS Subcommittee of the T&D Committee. This paper is on Part I of the session and focuses on a summary of the issues and benefits of applying FACTS controllers to AC power systems. The overall process for system studies and analysis associated with FACTS installation projects and the need for FACTS controller models is also discussed. Finally, an introduction to the basic circuits of several FACTS controllers is provided with a focus on their system performance characteristics. This paper is designed to be accompanied by the presentation material.

The Buck Stops Here - Hany Truman

HYDRO POWER INTEGRATION WITH DC POWER PLANT TECHNOLOGY

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ABSTRACT: Given the continuous development of hydropower generation and significant progress of HVDC technologies, the variable speed operation of hydropower plant with HVDC station (unit connection) becomes technically and commercially feasible. It results in a substantial improvement in system efficiency, performance and design flexibility. Further, if the hydro power plant is connected to a DC grid, a DC power plant with DC Power generation and DC voltage control is formed essentially. The DC power plant will play an important role similar to the conventional AC power plant in an AC grid system. A DC power plant can employ either HVDC Classic station or VSC HVDC station. VSC connection provides more control flexibility such as decoupled AC and DC voltage controls and fast electrical emergency braking. In this review paper, the characteristics and control principles of the hydropower plant unit connection with HVDC station are introduced. Based on the unit connect, ion, the DC power plant concept is proposed for hydropower integration into DC grid. The configurations of DC power plant are presented. The advantages of DC power plant and challenges for a practical system are analyzed. It concluded that the DC power plant will have a very attractive prospect for hydropower integration and DC grid application.

Keywords:

DC Power Plant, Unit Connection, Hydropower, HVDC, DC grid, Efficiency, Variable Speed

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IDENTIFY THE TRANSMISSION LINE FAULT LOCATION USING WIRELESS TECHNIQUE

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ABSTRACT: This paper demonstrates a method to find out the exact fault location of the transmission line by using wireless technique based on the satellite. The current transformer is used to find out the short circuit (sc) fault, opto-coupler is used to find out the open circuit (oc) fault and the earth fault circuit is used to find out the earth fault. The fault is analyzed and processed by microcontroller. Then the signal istransmuted through satellite and received by the receiver section.

Keywords fault location, wireless technique, SC fault, OC fault, satellite, Microcontroller.

VOLTAGE SAG MITIGATION BY USING DVR WITH DC ENERGY STORAGE

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RVSCET, KARAIKAL

ABSTRACT: This paper deals with modeling and simulation technique of a Dynamic Voltage Restore (DVR). The DVR is a dynamic solution to protect sensitive loads against voltage sags and swells. The DVR can be implemented to protect a group of medium voltage or low voltage consumers. A Power quality problem is an occurrence manifested as a nonstandard voltage, current or frequency that results in a failure or a mis-operation of end user equipments. Utility distribution networks, sensitive industrial loads and critical commercial operations suffer from various types of outages and service interruptions which can cost significant financial losses.

Voltage Dips on a feeder is an important task for DVR system operation and appropriate desired voltage sag compensation and the amount of DC energy storage depends on voltage dip are investigated in this paper.

Index Terms—.DC Energy Storage, Dynamic Voltage Restorer, Power Quality, Voltage Sag

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LOW VOLTAGE COMPENSATION IN WIND POWER GENARATOR

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ABSTRACT: This paper proposes a low-voltage ride-through scheme for the permanent magnet synchronous generator (PMSG) wind power system at the grid voltage sag. The dc-link voltage is controlled by the generator-side converter instead of the grid-side converter (GSC). Considering the nonlinear relationship between the generator speed ωmand the dc-link voltage Vdc, a dc-linkvoltage controller is designed using a feedback linearization theory.The GSC controls the grid active power for a maximum powerpoint tracking.

The validity of this control algorithm has been verified by simulation and experimental results for a reduced-scalePMSG wind turbine simulator.

Index Terms—DC-link voltage, feedback linearization, permanent magnet synchronous generator (PMSG), ride-through, wind power.

MAGNETO HYDRODYNAMIC POWER GENERATION TECHNIQUE

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Abstract on recent trends in electrical and electronics

ABSTRACT ON MAGNETO HYDRODYNAMIC POWER GENERATION TECHNIQUES:

Magneto hydrodynamic power generation technology (MHD) is the production of electrical power utilizing a high temperature conducting plasma moving through an intense magnetic field.

The efficiencies of all modern thermal power generating system lies between 35-40% as they have to reject large quantities of heat to the environment.

In all other conventional power plant, first the thermal energy of the gas is directly converted in to electrical energy. Hence it is known as direct energy conversion system.

NANOLEAVESELECTRICI-FUTURE RENEWABLE ENERGY SOURCE

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ABSTRACT:-Harvesting energy from the environment responsibly is important, natural trees and plants do this efficiently already for millions of years. Our invention is the mimicking of this ingenious concept also referred to as bio-mimicry or bio-mimetic. In particular this invention relates to the shape and form of leaves and needles and their incorporated nonmaterial's that allows the Nano leaf to harvest, capture environmental energies like solar radiation, wind and sound and turn this into electricity. This paper highlights about bio-mimicry, nanoleaves, and its working.

POWER QUALITY PROBLEMS AND NEW SOLUTIONS

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ABSTRACT: In this paper, the main Power Quality (PQ).problems are presented with their associated causes and consequences. The economic impacts associated with PQ are characterized. Finally, some solutions to mitigate the Problems are presented.

Key words

Power Quality, Power Quality problems, Power Quality costs, Power Quality solutions.

CONTROL OF CASCADED MULTILEVEL INVERTER WITH THE IMPLEMENTATION OF FLIP FLOPS

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ABSTRACT: The cascaded multilevel inverter (CMLI) has gained much attention in recent years due to itsadvantages in high voltage and high power with low harmonics applications. This paper presents a micro controller based control of multilevel inverter for single phase. IGBT is used as switching element. This work proposes a new switching scheme for the cascaded H-Bridge multilevel inverter. A standard cascadedmultilevel inverter requires n DC sources for 2n+1levels at the output, where n is the number of inverter stages. Also it presents a topology to control cascaded multilevel inverter that is implemented withmultiple DC sources to get $2^{n+1} - 1$ levels. This algorithm is implemented by a low-cost fixed-point microcontroller on an experimental seven level cascaded inverter. Several multilevel topologies have been reported in the literature and this paper focuses on digital control of asymmetric cascaded MLI. Gating signals are generated using PIC microcontroller. The performance of the inverter has been analyzed and compared with the result obtained from theory. A scheme based on 7-level inverter, which control a high performance 8-bit standard microcontroller with gate driver circuit and additional hardware is used, which allows a flexible and economical solution. The output voltage can be varied in a large range and with a good resolution. Theirintegration makes the design and analysis of a hybridmultilevel inverter more complete and detailed.

MULTIUSER SMS BASED WIRELESS ELECTRONIC NOTICE BOARD

Narayani.V&Meena.A

ABSTRACT: This is the model for displaying notices in colleges on electronic notice board by sending messages in form of SMS through mobile; it is a wireless transmission system which has very less errors and maintenance. The hardware board contains microcontroller AT89c52 at the heart of the system. The microcontroller is interfaced with GSM Modem via MAX232 level convertor. It is used to convert RS232 voltage levels to TTL voltage levels and vice versa. The hardware also has a 64K EEPROM chip AT24C64. This EEPROM is used to store the timings and messages to be displayed. Hardware also contains a real time clock DS1307 to maintain track of time. A 16x2 Character LCD display is attached to microcontroller for display. Microcontroller coding will be done using Embedded C and Kiel. PC Coding will be done using Visual Basic. Multiple Users are authorized to update notices on the electronic notice board by providing them password. We can use a PC with an administrator for monitoring the system.

NANOTECHNOLOGY

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ABSTRACT:-Recent developments in nanosciences and nanotechnology have created tremendous enthusiasm among researches and scientists across the globe.The rapidly increasing interest among various engineering disciplines toward research and development needs of nano-domain have spurred the growth in areas such as nanoelectronics, biotechnology&health delivery system and commerce in general.In this paper,a state-of-the-art encompassing the recent developments and the key problems in nanomanufacturing that relate to the domain are presented.Furthermore,contribution in this field from the researches in different parts of the world are included and compared to monitor the present progress.With the down sizing of present silicon,ICtechnology,validity of moore's law has become seemingly limited.However,it is strongly believed that the novel materials will provide the answer for further scaling of device density and performance. A part of this paper will be devoted to fully analyze the current trends in nanoelectronics based on nanostructured materials other than silicon.

NANOTECHNOLOGYAN END FOR CANCER

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ABSTRACT: Nowadays computer concepts are increasingly being used to analyze biological cells to diagnose diseases and develop methodologies to cure diseases inside the body. One such technology is 'Nanotechnology'. The paper emphasizes on the best and effective utilization of Nanotechnology in the treatment of cancer. The design of Nano device is based on the constant study of cancer cells and nanotechnology.

The Nano device is injected to the patient which can travel through blood vessel, identify and destroy cancer cells. The system is fully automated whereby the device manages to move to the affected cells through certain algebraic calculations automatically wherever it might be placed. The theme is based on the fact that the cancer cells get destroyed on exposure to RF signals, due to high heat generation. In our paper we design a device that contains sensors, transceivers, motors and a processor which are made up of biodegradable compound. No more destruction of healthy cells due to harmful toxins and radiations generated through chemotherapy and radiation therapy.

RECENT TENDS IN HYDRO-ELECTRIC WAVE ENERGY USINGOYSTER DEVICE

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ABSTRACT: This paper discusses some of the key design of the Oyster wave energy converter which is being developed by Aquamarine Power Ltd.

TheOyster is a hydro-electric wave energy which works based on the concept of oscillating wave surge converter and it is made up of a Power Connector Frame , which is bolted to the seabed, and a Power Capture Unit. The PCU is a hinged flap, which is almost entirely underwater and moves backwards and are no hydrocarbons in its system. The device sits largely underwater so there is minimal visual impact.

TRANSFORMERLESS GRID-CONNECTED PHOTOVOLTAIC SYSTEM

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ABSTRACT: This letter presents a modulation technique for the modified coupled-inductor single-stage boost inverter (CL-SSBI)- based grid-connected photovoltaic (PV) system. This technique can reduce the system leakage current in a great deal and can meet the VDE0126-1-1 standard. To maintain the advantages of the impedance network, only a diode is added in the front of the original topology, to block the leakage current loop during the active vectors and open-zero vectors. On the other hand, the near- state pulse width modulation (NSPWM) technique is applied with one-leg shoot-through zero vectors in order to reduce the leakage current through the conduction path in the duration of changing from and to open-zero vectors.

Simultaneously, the leakage current caused by other transitions can also be reduced due to the fact that themagnitudeofcommon-mode voltages is reduced. Simulation results of the transformer less PV system are presented in two cases: modified CL-SSBI modulated by maximum constant boost (MCB) control method and NSPWM. Experimental results for both CL- SSBI topology modulated by the MCB control method and mod- iced CL-SSBI topology modulated by NSPWM are also obtained to verify the accurateness of theoretical and simulation models.

Laughter is the best medicine -rafiudeen

NEW TECHNOLOGY FOR BIO-DIESEL PRODUCTION

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ABSTRACT: Now days increased demand for liquid petrol fuels, as well as their higher and higher price, the non-uniform allocation of petroleum reserves on the globe, corroborated with the restrictions imposed by environment conservation, have an impulse to the scientific researches regarding new unconventional energy sources and alternative fuels such as bio-diesel. Bio-diesel has been gaining worldwide popularity as an alternative energy source because it is non toxic, biodegradable and non flammable. The classic ways of producing bio-diesel have certain difficulties and disadvantages that determined researches for finding alternative technologies for its production. Thus, a new technology for second generation bio-diesel production has been proposed, that starts with the catalytic treatment of triglycerides contained in vegetable oils and animal fats with hydrogen enriched gas, obtaining fatty acids and glycerin. The hydrogen enriched gas is a gas obtained by the diesel", the catalytic hydrogenation is continued until reaching fat alcohols and Superior alkanes. The enriched bio-diesel thus obtained will be tested with regard to the physical and chemical characteristics, the caloric power and certain number and will be also tested on an engine, on a specialized stand.

Keywords:Biodiesel,hydrogenation, acids, fat alcohols, alkanes

SIMULATION ANDIMPLEMENTATION OFINTERLEAVED BOOST DC-DC CONVERTER FORFUEL CELL APPLICATION

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ABSTRACT: This paper deals with a boost dc-dc converter for fuel cell application. In fuel cell electric vehicles application, a high power boost dc-dc converter is adopted to adjust the output voltage, current and power of fuel cell engine to meet the vehicle requirements. One of challenge in designing a boost converter for high power application is how to handle the high current at the input side. In this paper an interleaved boost dc-dc converter is proposed for current sharing on high power application. Moreover, this converter also reduces the fuel ripple current. Performance of the interleaved boost converter is tested through simulation and experimental results

ELECTRICITY FROM POWER PLANT EMISSION

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ABSTRACT:The electricity requirements of the world including India are increasing at alarming rate and the power demand has been running ahead of supply. It is now widely recognized that the fossil fuel (i.e. coal, petroleum and natural gas) and other conventional resources presently being used for generation of electrical energy, may not be either sufficient or suitable to keep pace with ever increasing demand of the electrical energy of the world. Also generation of electric power by coal based steam power plant causes pollution.

Recently, Dutch researchers have a use for all carbon-dioxide that pours from the chimneys of fossil fuel burning power stations. This research was carried out in *Belchatowpowerplant* in POLAND and it was published in *Environmentalscience andtechnology letters* on JULY 5, 2013. The claim restson a 200-year-old technique pioneered by *SirHumphry Davy* and *Michael faraday* electrolysis.

SOLAR POWER GENERATION USING GRID AND INNOVATION OPTION FOR ENERGY CONSERVATION AND SECURITY.

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ABSTRACT:-The studies on the photovoltaic (PV) generation are extensively increasing, since it is considered as an essentially inexhaustible and broadly available energy resource. Photovoltaic systems that convert Solar energy into Electrical Energy are divided into two main categories: stand-alone (or) off line and grid connected.

The first one is commonly used in rural areas and more often as a back-up system for situations when the grid is not available due to a natural disaster or human caused disruption. Even if they are capable of providing AC power for immediate appliance usage, most of the time these systems make use of energy storage devices such as large capacity batteries, where the energy stored during the day will then be used when sunlight is not available. On the other hand, grid-connected systems are Installed in areas where the grid is present and robust, and able to accept energy feeding from the above described photovoltaic systems. Operating a Renewable System in Parallel with an Electric Grid requires Special Inverters. This Paper Presents the New Design, Development & Performance Analysis of an Grid Connected PV Inverter. The experimental results prove that the proposed system can reduce the Energy Consumption drastically and give a reliable support to the Grid.

Keywords-Grid Tie Inverter (GTI), Grid Connected PV Systems, Energy Conservation.

Begin With The End In Mind – Stephen Covey

RECENT DEVELOPMENTS IN ELECTRONICS UNDERNANOTECHNOLOGY-NANOELECTRONICS

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ABSTRACT: This paper presents an insight into some of the recent breakthroughs in nanotechnology which includes various traditional devices like transistors, light emitting diode, capacitors, integrated circuits to achieve efficiency resulting in lesser time and low power consumption. Nanotechnology can be applied to the field of electronics using carbon nanotubes, which when used on a polyamide substrate of a semiconductor wafer provides high mobility, flexibility, shock resistance, on off ratios and switching speeds, impossible to be achieved with glass plates assubstrates. Its usage in Active Matrix Organic Light Emitting Diode displays results in high current drivingcapability unlike polycrystalline silicon in traditional Liquid Crystal Displays. Lately semiconductor nanowires havebeen developed, exhibiting transparency and highly uniform electrical performance. CNT FETs have come of agewhere single walled CNTs replace the silicon channel resulting in strong coupling thus shrinking the FET size. Thelatest area of development of CNTs have been in Super capacitors where CNT heterogeneous films are used to storehigh amount of energy catering to the needs of high power, energy density and long operation cycles. Thus thisfarsighted technology has helped in achieving unprecedented densities and speeds which is the need of the hour.

RECENT TRENDS IN HVDC / FACTS

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ABSTRACT:-Electric utilities are looking for cost-effective ways to increase and manage the transmission capacity to meet the growing load demand. Application of high voltage direct current (HVDC) technology within the existing AC system is one of the options to increase the transmission capacity. This program offers a comprehensive portfolio on HVDC research for application to existing systems and to better understand HVDC options when evaluating future transmission expansions. A new transmission and distribution technology, HVDC Light, makes it economically feasible to connect small scale, renewable power generation plants to the main AC grid. Vice versa, using the very same technology, remote locations a islands, mining districts and drilling platforms can be supplied with power from the main grid, thereby eliminating the need for inefficient, polluting local generation such as diesel units. The voltage, frequency, active and reactive power can be controlled precisely and independently of each other. This technology also relies on a new type of underground cable which can replace overhead lines at no cost penalty. Equally important, HVDC Light has control capabilities that are not present or possible even in the most sophisticated AC systems.

A NEW TREND IN RENEWABLE ENERGY -WIND ENERGY

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ABSTRACT:The Renewable energy is the term used to describe sources of energy that are considered to be environmentally friendly and non-polluting, such as geothermal, wind, solar, and hydro.In our presentation we would like to give a note on the new trend in wind energy. That innovative invention in wind is Magenn Air Rotor System (MARS).
We presented a brief explanation about the following things.

- Drawbacks of conventional wind turbine.
- Invention & Construction of MARS.
- Operation of MARS
- Present & Future MARS.
- Advantages & applications of MARS.

SOLAR POWERED VEHICLE

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ABSTRACT:A solar vehicle is an electric vehicle powered completely or significantly by direct solar energy. Usually, photovoltaic (PV) cells contained in solar panels convert the sun's energy directly into electric energy. The term "solar vehicle" usually implies that solar energy is used to power all or part of a vehicle's propulsion. Solar power may be also used to provide power for communications or controls or other auxiliary functions.

Solar vehicles are not sold as practical day-to-day transportation devices at present, but are primarily demonstration vehicles and engineering exercises, often sponsored by government agencies. However, indirectly solar-charged vehicles are widespread and solar boats are available commercially.

A dream is a wish your heart makes. - The Supremes

RENEWABLE ENERGY RESOURCES

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ABSTRACT: This paper describe about the renewable energy resources and the types of energy source. Basically the energy sources are two types they are conventional energy sources like coal, petroleum, natural gas etc. and non-conventional energy sources like solar cells, fuel cells, thermal-electric generator, thermionic converter, solar power generation, wind power generation, geo-thermal energy generation. In this paper discuss about the few types Bio energy, solar energy, geothermal energy and Wind energy

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RENEWABLE RESOURCE INTEGRATION AND OPERATION

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ABSTRACT: Energyis the key input for socio-economic development of any Nation. The fast industrialization and rapid urbanization besides mechanized farming have generated a high demand of energy in all forms i.e. Thermal, mechanical and electrical. To meet this ever-increasing demand, fossil fuels such as coal, oil and natural gas have been overexploited in an unsustainable manner.The ,overexploitations of fossil fuels have been posing serious environmental problems such as global warming and climate change.While we have shortage of energy and more dependent on imports in case of petroleum, we are fortunate enough to be blessed with plenty of natural sources of energy such as solar, wind, biomass and hydro. These sources are environmentally benign and non-depleting in nature as well as are available in most parts of the country throughout the year

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RENEWABLE ENERGY POTENTIAL FOR INDIA

S.Lavanya&P.SelvaShamila
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ABSTRACT: India has a vast supply of renewable energy resources, and it has one of the largest programs in the world for deploying renewable energy products and systems. Indeed, it is the only country in the world to have an exclusive ministry for renewable energy development, the Ministry of Non-Conventional Energy Sources (MNES). Since its formation, the Ministry has launched one of the world's largest and most ambitious programs on renewable energy. Based on various promotional efforts put in place by MNES, significant progress is being made in power generation from renewable energy sources. In October, MNES was renamed the Ministry of New and Renewable Energy.

Specifically, 3,700 MW are currently powered by renewable energy sources (3.5 percent of total installed capacity). This is projected to be 10,000 MW from renewable energy by 2012.

The key drivers for renewable energy are the following:

- The demand-supply gap, especially as population increases
- A large untapped potential
- Concern for the environment
- The need to strengthen India's energy security
- Pressure on high-emission industry sectors from their shareholders
- A viable solution for rural electrification

RFID BASED SMART GRID WITH POWER FACTOR MAINTAINCEIN LOAD SIDE

R.Srimathi,B.Saranya
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ABSTRACT: Smart grid is a combination of hardware management and reporting software,built atop and intelligent common infrastructure.In the world of smart grid consumers and utility companies alike here tools to manage ,monitor and respond to energy issuses.Eassily installable and highly reliable data communication over power line is a requirment to make a smart grid more useful than fixed grid system.Therefore RFID over power line technology was developed unlike conventional RFID carrying data wirelessly by antenna.Radio frequency signals for identification and payment through the power line in smart grid.Power factor control is a major role in the improvement of power system stability.Whenever the non linear load is connected in load side, the proposed system will automatically disconnect the non liner load for maintain the power factor.

Keywords—Smartgrid,RFID(RadioFrequencyIdentification),PowerLineCarrier Communication(PLCC),power factor

Above All To Thine Own Self Be True -William Shakespeare

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RURAL AREA ELECTRIFICATION BY USING SOLAR-BIOMASS HYBRID POWER PLANT

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CAPE INSTITUTE OF TECHNOLOGY

ABSTRACT: The use of renewable energy sources is becoming very necessary due to the limited reserves of fossil fuels and global environmental concerns for the production of electrical power generation and utilization. In remote areas, villages, it is easy to get more amount biomass& solar power in nature. Hence by the use of hybrid systems consisting of Biomass and PV for production of electrical energy in these remote areas can be more economical. Hybrid systems may provide maximizing the energy potential of these resources, increasing process efficiency, providing greater security of supply and reducing overall costs.By using this power plant we can easily power supply the remote areas avoiding connections from national grid. So transmission loss and cost may reduce. Cities and factories are getting continuous power supply.
In this paper we suggest a solution for the rural area electrification that is "Hybrid solar-biomass power plants" mainly for INDIA. Because India has an abundant amount solar power & Biomass power sources. Also in this paper focus a construction, working & advantages of world first Hybrid solar-biomass power plant Term solar Borges CSP located at Spain.

NEW INTELLIGENT TRANSMISSION CONCEPT FORHYBRID MOBILE ROBOT SPEED CONTROL

B.Saranya,R.Srimathi
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M.KUMARASAMY COLLEGE OF ENGINEERING (AUTONOMOUS)
THALAVAPALAYAM.

ABSTRACT: This paper presents a new concept of a mobile robot speed control by using two degree of freedom gear transmission. The developed intelligent speed controller utilizes a gear box which comprises of epicyclic gear train with two inputs, one coupled with the engine shaft and another with the shaft of a variable speed dc motor.

The net output speed is a combination of the twoinput speeds and is transmission ratio of the planetary gear train. This new approach eliminates the use of a torque converter which is otherwise an indispensable part of all available automatic transmissions, thereby reducing the power loss that occurs in the box during the fluid coupling. By gradually varying the speed of the dc motor a step less transmission has been achieved.

Success is a journey not a destination - ben sweetland

GENERATION OF ELECTRICITY FROM SEWAGE

MulaenteSanthosh Kumar,& J. Shanu Charles
msanthosh876@gmail.com
V.R.S. COLLEGE OF ENGINEERING,VILLUPURAM.

ABSTRACT: Instead of using energy to treat waste water; it is actually feasible for one to harness energy from wastes as well as treating it using a Microbial Fuel Cell (MFC). An MFC generates electricity from sewage with the help of bacteria. This research paper investigates the generation of electricity from sewage as well as sewage treatment in the same period. Four cells were used A, B, C and a control. The cells A, B and C all consisted of the anode and the cathode separated by a loamy-sandy soil of electrical conductivity, 160 S at 22.8°C. The cathode and anodes were made of carbon rods obtained from A size dry cell. The anode and cathode were separated by 25 mm, 50 mm and 75 mm for cells A, B and C respectively. The control cell had no electrical components but shared the other components as those for cell A, B and C. Sewage with COD of 2080 O_2 mg/l was introduced into the cells. Voltage and COD measurements were made every 24 hours and 10 days respectively to investigate performance. Laboratory measurements and recordings were made for 60 days and maximum voltages of 0.426 V, 0.261 V and 0.267 V were recorded for A, B and C respectively. The COD removal efficiencies were over 90 %, for B and C; over 60 % for A and less than 40 % for the control evenafter 60 days. Thisasserted that MFCs generated electricity as well as being better waste treatment devices than natural or constructed waste treatment ponds.

A NEW TREND IN RENEWABLE WIND ENERGY

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UNIVERSITY COLLEGE OF ENGINEERING, THIRUKKUVALAI

ABSTRACT: The Renewable energy is the term used to describe sources of energy .that are considered to be environmentally friendly and non-polluting, such as geothermal, wind, solar, and hydro. In our presentation we would like to give a note on the new trend in wind energy. That innovative invention in wind is Magenn Air Rotor System (MARS). We presented a brief explanation about the following things.

- Drawbacks of conventional wind turbine.
- Invention & Construction of MARS.
- Operation of MARS
- Present & Future MARS.
- Advantages & applications of MARS.Feel

The Fear And Do It Anyway - Susan Jeffers

SMART GRID TECHNOLOGIES

D.Thilagavathi,&M.Hema,
ARASU ENGINEERING COLLEGE,KUMBAKONAM.

Abstract. This paper presents the survey of the smart grid technologies. The driving forces for the smart grid technologies are presented, including the blackout, global energy crisis and environmental protection requirement. The key technology issues for building the smart grid are discussed. The crucial elements of the smart grid and their applications are introduced, including the un-interruptible power supply (UPS), micro-grid, solar and wind generation, and high voltage direct current (HVDC) transmission technologies.

SMART GRID TECHNOLOGY-A SCOPEFORFUTURE

S.MohamedArif&S.Mellvin
Dr.SIVATHIADITANARCOLLEGE OF ENGINEERING,TIRUCHENDUR

ABSTRACT: The paper presents information on Smart Grid. Using recent data and knowledge about Smart Grid, this paper mainly introduces the meaning of Smart Grid, the significance and goals of Smart Grid, Technologies of Smart Grid include: integrated communications, sensing and measurement technologies, advanced components, advanced control methods, and improved interfaces and decision support. Smart Grid must have self-healing, consumer participation, resist attack, high quality power, accommodate generation options, enable electricity market, optimize assets, and enable high penetration of intermittent generation sources. Finally, this paper takes an outlook of the Smart Grid future. With cost and benefit analysis in Smart Grid, we found that Smart Grid can really provide people a more prosperous, healthier, and more quality life. In contrast, for today electric power system, major questions exist about its ability to continue providing citizens and businesses with relatively clean, reliable, and affordable energy services.KeywordsSmart Grid, electric power grid, efficiency, reliability, environment/climate change, affordability, security, national economy, global competitiveness, smart meters, global warming, energyindependenc

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
(ZEPRA)
Zealous Electric Power Raising Association

PRIZE WINNER

REF: EGSPEC/EEE/FEB-2022

We are happy to inform you that the following students are selected the prizewinner of today Technical Symposium **"CALONICS -20"** which was held on 17th Feb. 2020

S.no.	Title of the paper	Name of the student	Name of the college	Prize position
1.	The load monitoring and protection of electricity power lines using GSM network	Kayalvizhi.s Saraswathi. M	A.V.C Engineering College, Mayiladuthurai	I
2.	Solar power generation using grid and innovation option for energy conservation and security	K.Illakiya A.Anbarasi	Kings College of Engineering , Punnankulam	II
3.	Nanogenerators	S.Ramkumar	ARJ college of Engineering , Mannargudi	III

ASSOCIATION COORDINATOR

HOD/EEE

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A REPORT ON

"CALONICS - 20"

ON

17-02-2020

Organized By

ZEPRA

Department of Electrical & Electronics Engineering

E.G.S.PILLAY ENGINEERING COLLEGE

NAGAPATTINAM - 611001

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Nagore Post, Nagapattinam – 611 002, Tamilnadu.

CIRCULAR dt.21.02.2020

We are going to conduct sports event on "Kabaddi Women & Men" on 01.03.2020. In this regard all the interested students are requested to attend this event.

PRINCIPAL

Cc to: Principal Office, Circulate to all departments.

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E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM

DATE: 03/03/2020

CONGRATULATIONS

The management, Principal and Staff members heartily congratulate students for participating sports event on "Kabaddi Women & Men" on 01/03/2020.

PRINCIPAL

Dr. S. RAMABALAN, M.E., Ph.D
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E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM

LIST OF STUDENTS PARTICIPATED IN THE SPORTS EVENT "Kabaddi Women & Men"

S. NO	REGISTER NUMBER
1.	A. Saranya
2.	M. Sakthi Priya
3.	R. Priya
4.	J. Kavitha
5.	S. Ramya
6.	Preetha
7.	Swathi
8.	Susithra
9.	Vinitha. D
10.	VimalaDevi
11.	Rshini
12.	Nithiya
13.	Pavitha
14.	Punitha
15.	Mohamed Yusuff J
16.	Praveen
17.	Naveen Kumar S
18.	C.Aakash
19.	Hari
20.	R.Suresh Rajan
21.	Tamilmaran
22.	S.Aakash
23.	R.Somnath
24.	S.Manikandan
25.	Dinesh
26.	D.Sathish Kumar
27.	Dineshkumar M

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E.G.S.PILLAY ENGINEERING COLLEGE ,NAGAPATTINAM

FINE ARTS CLUB (2019-2020)

Event: Kabbadi for Woman

LIST OF PARTICIPANTS 02.03.2020

S.no	Name of the students	Department
1.	ABINAYA M	BME
2.	ABINAYA R	BME
3.	ABINAYA R	BME
4.	ABIRAMY K	BME
5.	AKSHAYA E	BME
6.	CHANDRAMUKHI N	BME
7.	CHARUMATHY R	BME
8.	GOKILA A	CSE
9.	JASIM A	CSE
10.	HARSHIYA M	CSE
11.	KABITHA S	CSE
12.	KAMALI N	CSE
13.	KAVIYA R	CSE
14.	KEERTHANA B	CSE
15.	MONICA R	IT
16.	MONIKA S	IT
17.	NALEEFA A	IT
18.	NISHA R	IT
19.	NIVETHA S	IT
20.	PARGUNAN L	IT
21.	SHARMILA S	IT

Faculty Incharge

Principal

Dr. S. RAMABALAN, M.E., Ph.D.,
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E.G.S.PILLAY ENGINEERING COLLEGE ,NAGAPATTINAM

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01.03.2020

EGSPEC/FINE ARTS/COMPETITION/ 2019-2020

CONGRATULATION TO THE PRIZE WINNERS

The following students are the prize Winners of the competition conducted by **FINE ARTS CLUB:-**

Competition	Prize	Department & Year
Kabbadi for Men	I	EEE
	II	MECH
	III	BME
Kabbadi for Woman	I	CSE
	II	IT
	III	BME

Convener

Principal

Dr. S. RAMABALAN, M.E., Ph.D.,
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E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

Copy to

1.All HoD's & Dean's
2.All Notice board

Kabbadi Men's Team

Kabbadi Women's Team

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"Animation"

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E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM

DATE: 03/03/2022

CONGRATULATIONS

The management, Principal and Staff members heartily congratulate students for participating sports event on "Basket ball for men" on 26/02/2022.

PRINCIPAL

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E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM

LIST OF STUDENTS PARTICIPATED IN THE SPORTS EVENT "BASKET BALL FOR MEN"

S. NO	STUDENT NAME
1.	S.Manikandan
2.	C.Akash
3.	M.Manikandan
4.	P.Ravichandran
5.	S.Pragadeeswaran
6.	M.S.Aarun Balaji
7.	Tamilmani
8.	K.Srikanth
9.	M.Pradeep[
10.	M.Punithan Jayaraj
11.	M.Yohesh
12.	V.Sriram

PRINCIPAL

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CIRCULAR dt.27.02.2020

We are going to conduct sports event on "Basket ball for Men & women" on 02.03.2020. In this regard all the interested students are requested to attend this event.

PRINCIPAL

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Cc to: Principal Office, Circulate to all departments.

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SPORTS EVENT ON
"BASKET BALL FOR MEN & WOMEN"

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CIRCULAR dt.24.02.2020

We are going to conduct sports event on "Cricket Men" on 02.03.2020. In this regard all the interested students are requested to attend this event.

PRINCIPAL

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E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM

LIST OF STUDENTS PARTICIPATED IN THE SPORTS EVENT "CRICKET FOR MEN"

S. NO	STUDENT NAME
1.	Agathish Babu
2.	Fayas
3.	Mohamed Thariq
4.	Balaganesh
5.	Vikram
6.	Deva
7.	Surya
8.	Gowtham
9.	Anbu Kumar
10.	Irshad
11.	Yogesh
12.	Parthiban
13.	S.Siddharth
14.	S.Kamesh
15.	R.Aakash
16.	G.Naveen Kumar
17.	Prakash
18.	Deepak

PRINCIPAL

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E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM

DATE: 4/03/2020

CONGRATULATIONS

The management, Principal and Staff members heartily congratulate students for participating sports event on "Cricket men" on 02/03/2020.

S.No	Student name
1.	Agathish Babu
2.	Fayas
3.	Mohamed Thariq
4.	Balaganesh
5.	Vikram
6.	Deva
7.	Surya
8.	Gowtham
9.	Anbu Kumar
10.	Irshad
11.	Yogesh
12.	Parthiban
13.	S.Siddharth
14.	S.Kamesh
15.	R.Aakash
16.	G.Naveen Kumar
17.	Prakash
18.	Deepak

PRINCIPAL

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SPORTS EVENT ON "CRICKET FOR MEN"

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DATE: 02/03/2020

CONGRATULATIONS

The management, Principal and Staff members heartily congratulate students for participating in the sports event on **"Fencing for Women"** on 01/03/2020.

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Nagore Post, Nagapattinam – 611 002, Tamilnadu.

Date: 14.02.2020

CIRCULAR

We are going to conduct a sports event on **"Fencing for Women"** on 01.02.2020. In this regard all the interested students are requested to attend this event.

PRINCIPAL

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Cc to: Principal Office, Circulate to all departments.

E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM

LIST OF STUDENTS PARTICIPATED IN THE SPORTS EVENT "FENCING FOR WOMEN"

S. NO	REGISTER NUMBER	STUDENT NAME
1.	E19BMR010	DHATCHAYINI S
2.	E19BMR020	KEERTHANA B
3.	E19BMR027	LALITHA G
4.	E18CER010	ARTHI M
5.	E17CSR083	RANJANI DEVI T
6.	E17CSR085	RAVINA R
7.	E19ECR093	SOPHIA V
8.	E17ECR024	DEEPIKA G
9.	E19EER015	JANANE K S
10.	E17EER016	DIVYA J
11.	E17ITR056	SUBASRI.R

PRINCIPAL

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