



NATIONAL ENGINEERING COLLEGE

(AN AUTONOMOUS INSTITUTION)

K.R.NAGAR, KOVILPATTI - 628503.



EEE NEWSLETTER

August 2022

Volume 10 Issue 1

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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ACHIEVEMENTS OF NEC



Our NEC Bagged 169th position in NIRF 2022 Ranking



Our NEC has secured Band Excellent with 10th Rank among Self-financed Institutions all over the Nation applied for ATAL Ranking of Institutions on Innovation Achievements (ARIIA) 2021.



Our NEC secured 5-Star rating with a score of 97.5 out of 100 for the academic year 2019-20

PLACEMENT ACHIEVEMENTS ACADEMIC YEAR (2022 – 2023)

On behalf of the Chairman, Correspondent, Director, Principal, Head of the Department, and staff members, we heartily congratulate the final year students who got placed in the various Campus drive in our campus during the academic year 2022 – 2023.

(As on Date: 30th August 2022)

- *Total No. of Offers : 18 No.s (August Month)*

| | | | | | |
|--------------------------------------|---------------------------------------|----------------------------------|-------------------------|------------------------|--------------------------|
| J.ANURAGA Tessolve | R.BAGAWATHI Tessolve | A.MOHANA INDHU PRIYA Tessolve | A.PERUMAL Smart IOPS | A.PERUMAL Cognizant | R.RAHUL Zoho |
| C.AKASH Brimma | P.SUSEEL RAJA Brimma | R.S.RAMESH Brimma | A.SOWMIYA Brimma | R.SRIRAMAN Brimma | L.VARATHARAJAN Brimma |
| V.RAGHUL Brimma | S.PON SARAVANA KUMAR Data Patterns | R.P.JAGANATH Data Patterns | | | |
| J.JEY SHREE LAKSHMI Data Patterns | M.VIGNESHWARAN Data Patterns | V.VIJAYA BALAN Data Patterns | | | |

STILL PLACEMENT PROGRESS CONTINUING....

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https://www.instagram.com/dept_of_eee_nec/



https://twitter.com/hod_eee_nec

STAFF ACTIVITIES**COURSE ATTENDED**

| S.No. | Name of the Staff | Events | Topic/Event | Date | College/ Industry |
|-------|---|----------------------------|---|-------------------------------|--|
| 1 | Dr.M.Willjuice Iruthayarajan, Prof & Head Dr.L.Kalaivani, Prof Dr.M.P.E. Rajamani, AP(SG) | Online MATLAB Course | Physical Modeling and control of Electric Vehicles with Simulink and Simscape | 27.05.2022 - 29.05.2022 | MATHWORKS |
| 2 | Dr.M.Willjuice Iruthayarajan, Prof & Head | GIAN Course | Soft Sensor Development using state and Parameter Estimation Techniques and their Applications | 11.07.2022 - 16.07.2022 | MIT Campus, Anna University |
| 3 | Dr.L.Kalaivani. Professor | Industry Know How | | 25.07.2022 - 30.07.2022 | Mohan Power Infra, Tirunelveli |
| 4 | Mr.P.Samuel Pakianathan, AP | Industry Know How | | 09.08.2022 - 13.08.2022 | ReGen Infrastructure and Service Private Limited, Theni |

STAFF PUBLICATIONS

| S.No | Authors Name List | Name of the Journal | Title of the Paper | Vol. No& Page No | Year |
|------|--|--|---|----------------------------------|------|
| 1 | R. Bhaskaran, R. Karuppathal, N. B. Prakash, R. Rajkumar | Journal of Environmental Protection and Ecology | Satellite Image Analysis Using Contextual Data Retrieval Technique for Environmental Monitoring Condition | Vol. 23, No. 1, pp. 301-313 | 2022 |
| 2 | S. Marisargunam, L. Kalaivani, R. V. Maheswari | Intelligent Automation and Soft Computing | Energy Enhancement of Permanent Magnet Synchronous Generators Using Particle Swarm Optimization | Vol. 33, No.3, pp.1711-1727 | 2022 |
| 3 | A. Geetha and N. B. Prakash | Computer Systems Science & Engineering | Classification of Glaucoma in Retinal Images Using EfficientnetB4 Deep Learning Model | Vol. 43, No. 3, pp. 1041-1055 | 2022 |

| | | | | | |
|---|---|---|---|---|------|
| 4 | M. Peratchiammal, N. B. Prakash, M. Murugappan, B. Vigneshwaran, M. Bakrutheen | Arabian Journal for Science and Engineering | Statistical Reliability Analysis on Flashover Characteristics of Ceramic Disc Insulator and Polymeric Insulators | https://doi.org/10.1007/s13369-022-06929-9 | 2022 |
| 5 | D. Karthik Prabhu, R. V. Maheswari, B. Vigneshwaran | Intelligent Automation and Soft Computing | Deep Learning Based Power Transformer Monitoring Using Partial Discharge Patterns | Vol. 34, No. 3, pp. 1441 - 1454 | 2022 |
| 6 | Gengaraj M, Kalaivani L | Journal of Intelligent and Fuzzy Systems | An enhanced control method for torque ripple minimization of switched reluctance motor using hybrid technique | Vol. 43, No. 1, pp. 1481-1504 | 2022 |
| 7 | Venkatasamy B, Kalaivani L | Journal of Intelligent and Fuzzy Systems | Interval type-2 fuzzy logic controller based grid-tied solar PV inverter with active and reactive power control | Vol. 43, No. 3, pp. 2299-2314 | 2022 |
| 8 | M.Murugappan, N.B.Prakash, R.Jeya, A.Mohanarathinam, G.R.Hemalakshmi, MuftiMahmud | Measurement | A novel few-shot classification framework for diabetic retinopathy detection and grading | Vol. 200, 15, 111485 | 2022 |
| 9 | M.Gengaraj, L.Kalaivani and R.Rajesh | IETE Journal of Research | Investigation on Torque Sharing Function for Torque Ripple Minimization of Switched Reluctance Motor: A Flower Pollination Algorithm Based Approach | https://doi.org/10.1080/03772063.2022.2112312 | 2022 |

STAFF GUEST LECTURE DELIVERED

- ✓ **Dr. N. B. Prakash, Professor/EEE** has delivered a Guest Lecture on a topic “Prototype/ Process Design and Development” at ST. Mary’s College, Tuticorin (29.08.2022) organized by PG and Research department of English.

STAFF ACHIEVEMENTS



Mr.M.P.Samuel Pakianathan, AP/EEE has received a Best Paper award title on “Analysis of Significant parameters of miscellaneous insulating fluids with antioxidants”, presented in IEEE International Conference on Nanoelectronics, Nanophotonics, Nanomaterials, Nanobioscience & Nanotechnology, held at Mangalam College of Engineering, Kerala

STAFF PUBLICATIONS

INTERNATIONAL CONFERENCE

| S. No. | Name of the authors | Title of the Paper | Name of the Journal/Conference | Year |
|--------|--|--|---|------|
| 1. | F. Antony Jeffrey Vaz; M. Willjuice Iruthayarajan | Machine Learning-based Short Term Wind Speed Prediction of Aeroelastic Model | 2022 7th International Conference on Communication and Electronics Systems (ICCES), PPG Institute of Technology, Coimbatore | 2022 |

| | | | | |
|----|---|---|--|------|
| 2. | Samuel Pakianathan P, Dhanya, Helen Gethse, Diana Hyden, Muthuselvi | Analysis of Significant parameters of miscellaneous insulating fluids with antioxidants | IEEE International Conference on Nanoelectronics, Nanophotonics, Nanomaterials, Nanobioscience & Nanotechnology, Mangalam College of Engineering, Kerala | 2022 |
|----|---|---|--|------|

STUDENT PUBLICATIONS

| S. No. | Name of the authors | Title of the Paper | Name of the Journal/Conference | Year |
|--------|---|--|---|------|
| 1. | K Karthik Kumar;M Willjuice Iruthayarajan;C Akash;G Jegan Raj | Design and Implementation of a Solar Energy-Supported Standalone Electric Vehicle Charging Point/Panel using MVO Optimization | 2022 7th International Conference on Communication and Electronics Systems (ICCES), PPG Institute of Technology, Coimbatore | 2022 |
| 2. | S Nandhini, S Sankara Kumar, M Willjuice Iruthayarajan | Design of Earthing Grid using ETAP | International Conference on Trends in Electronics and Informatics - ICOEI 2022, SCAD College of Engineering and Technology, Tirunelveli | 2022 |
| 3. | Jey Shree Lakshmi J, Subalakshmi J, Joyslin Janet J, Vigneshwaran B and Sivapalanirajan M | Deep learning-based condition monitoring of insulator in overhead power distribution lines using Enhanced Cat Swarm Optimization | International Conference on Artificial Intelligence : Advances and Applications - ICAIAA 2021, Poornima College of Engineering, Jaipur | 2022 |

STUDENTS FUNDED PROJECT DETAILS

2022 - 2023

INSTITUTION OF ENGINEERS (INDIA)



NATIONAL ENGINEERING COLLEGE

(An Autonomous Institution - Affiliated to Anna University, Chennai)
K.R.Nagar, Kovilpatti-628 503.  www.nec.edu.in

TNEA 4962
COUNSELLING CODE

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Congratulations

Title: Real-Time Implementation of Fractional Order PID Controller for Quadratic Boost Converter in Electric Bicycle using Evolutionary Computation
Funding Agency: Institution of Engineers (India)

Amount: Rs. 23,000/-

Guide(s):
Dr. M.Willjuice Iruthayarajan
&
Dr. M.P.E.Rajamani



S. Pon Saravanakumar
Final Year-EEE

#ThinkEEethinkNEC



Rank - 169



NEWGEN IEDC – FUNDED PROJECT

NATIONAL ENGINEERING COLLEGE
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K.R.NAGAR, KOVILPATTI – 628503
Department of Electrical and Electronics Engineering

Congratulations!

'LoRa Based Smart Starter for Agriculture'
Funding Agency: NewGen IEDC (DST-India) – NEC
Amount: Rs. 2.5 Lakhs

| | | |
|--|---|---|
|  VIGNESHWARAN.M Final EEE |  VIJAYABALAN.V Final EEE |  YUVARAJ.S Pre-Final EEE |
|  RAMVAJ Pre-Final EEE |  PRIVADHARSHINI.L Pre-Final EEE | |

Mentor(s):
Dr.L.Kalaivani, Professor/EEE
Mr.B.Venkatasamy, AP(SG)/EEE

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COUNSELLING CODE

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NAAC 'A' Grade Rank - 169 Tier - 1

NATIONAL ENGINEERING COLLEGE
An Autonomous Institution | Affiliated to Anna University, Chennai
K.R.NAGAR, KOVILPATTI – 628503
Department of Electrical and Electronics Engineering

Congratulations!

'Smart Info System for Bike'
Funding Agency: NewGen IEDC (DST-India) – NEC
Amount: Rs. 2.5 Lakhs

| | | |
|--|---|--|
|  RAGUL.S Pre-Final EEE |  BALAMURUGAN.M Pre-Final EEE |  JENITHRAM Pre-Final EEE |
| | |  APSARA VAHINI.P Pre-Final EEE |

Mentor(s):
Mr.B.Venkatasamy, AP(SG)/EEE
Mr.F.Antony Jeffery Vaz. AP/EEE

TNEA 4962
COUNSELLING CODE

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NATIONAL ENGINEERING COLLEGE
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K.R.NAGAR, KOVILPATTI – 628 503
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CONGRADULATIONS

COLD CONTAINER MONITORING & RISK ASSESSMENT SYSTEM FOR NAVAL TRANSPORTATION
Funding Agency : NewGen IEDC (DST - INDIA)
Amount of Rs. 2.5 Lakhs

| | | | |
|---|--|--|---|
|  Jessilca A III Year EEE |  Selva Priya A III Year EEE |  Aarthi S III Year IT |  Meena G III Year IT |
|---|--|--|---|

MENTORS:
Mr. F Antony Jeffrey Vaz (AP/EEE)
Dr. L Jerart Julius (Asso/IT)
Mr. K Karthik Kumar (AP/EEE)

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CONGRATULATIONS!

AMOUNT: RS 2.5 LAKHS

'COMPUTER VISION BASED MEAT QUALITY CHECKER'
Funding agencies : NewGen IEDC (DST-India)-NEC

Mentor(s)
Dr. B.VIGNESHWARAN AP(SG)/EEE
MR.M.SIVAPALANI RAJAN AP/EEE

| | | |
|---|---|--|
|  Mohamed Muzali V M 3rd year EEE |  Tudaku Manoj 3rd year EEE | |
|  Sankaraj P 3rd year EEE |  Mohammed alirol andas TS 3rd year EEE |  Raja Suresh P 3rd year EEE |

#THINKEEETHINKNEC

NAAC 'A' Grade Rank - 169 Tier - 1

DEPARTMENT ACTIVITIES

SPECIAL INTEREST GROUP

POWER SYSTEMS & ENERGY

ENGINEERING

The session on “**Electrical Transient Analyzer Program**” for SIG members of **III Year Fifth Semester** students was conducted on **06.08.2022 (Saturday)** during 1st and 2nd Hour at Research Simulation Lab by **Mr.N.B.Rajesh, AP/EEE**. The sessions was started by 9.15 A.M. and completed by 10.55 A.M. Totally 05 students were participated and got the relevant information.

The main objectives of the session are:

- To understand the need of ETAP software for various kind of faults and analyzes the behavior of the system under study. These studies are very much important to ensure overall integrity of the system and hence its stability.
- ETAP has integrated all the functionality required for Electrical studies; it is preferred over other software packages.

The following topics are covered during the entire session and its importance in real-time applications.

- Brief Introduction about ETAP Simulation Software.
- List of studies that can be carried out using ETAP software for practical systems and discussed each study elaborately.
- Basic Case study for 3-bus system has been discussed with white board for better understanding.



POWER SYSTEMS & ENERGY

ENGINEERING

The session on “**Electrical Transient Analyzer Program**” for SIG members of **III Year Fifth Semester** students was conducted on **13.08.2022 (Saturday)** during 1st and 2nd Hour at Research Simulation Lab by **Mr.N.B.Rajesh, AP/EEE**. The sessions was started by 9.15 A.M. and completed by 10.45 A.M. Totally 05 students were participated and got the relevant information.

The main objectives of the session are:

- To understand the need of ETAP software for various kind of faults and analyzes the behavior of the system under study.

The following topics are covered during the entire session and its importance in real-time applications.

- Familiarization with ETAP environment and How to add ratings to components in ETAP
- List of standards chosen for various studies
- Fundamentals of Load Flow Analysis in ETAP
- Examples of Load Flow Analysis in ETAP and Study cases of Load Flow Analysis in ETAP for 3- bus system
- Fundamentals of Short Circuit Analysis and simple case study for 3- bus system simulated in ETAP
- Discussed the results with Report generated by load flow and short circuit studies.



HIGH VOLTAGE ENGINEERING

A brief introduction about “High Voltage Engineering” was given by **Dr.B. Vigneshwaran, Assistant Professor (Senior Grade)/EEE** on 06.08.2022. Then he explained about,

The objectives of the session are:

- To understand the overview of insulation coordination
- Discuss the breakdown mechanisms in different dielectrics
- To survey the recent ongoing research/ challenges in high voltage engineering

In the session, Dr. B. Vigneshwaran gave a brief history on necessity of generating high voltage and discussed about the following things

- The electrical **insulation levels** of different components in the electrical power system including transmission network, substations etc.,
- Insulation coordination for power systems with real time examples
- Standards used for testing
- Ongoing research works in high voltage engineering

The session was started by 09.30 AM and completed by 11.15 AM. Totally 17 students from third year were participated and got the relevant information in the field of High voltage engineering.



HIGH VOLTAGE ENGINEERING

A session on “**Introduction to Liquid Dielectric**” was conducted on 13.08.2022 by **Dr. M. Bakrutheen, AP (SG) /EEE** at Liquid Dielectrics Laboratory for Special Interested Group (SIG) members from III year EEE students. The sessions was started by 9.30 AM and completed by 11.00 AM. Totally 17 students were participated and got the relevant information.

The objectives of the sessions were:

- To impart importance of liquid dielectric medium in high voltage apparatus as insulation and coolant
- To provide fundamentals and development in the field of liquid insulating medium

In the session, Dr. M. Bakrutheen gave a brief history on liquid dielectric and its development. In this session, he gave the lecture in the following aspects.

- Necessity of Liquid dielectric in the high voltage apparatus
- Development in Liquid dielectric over the years
- Critical properties of Liquid dielectric – importance, standards and measurement techniques of properties such as breakdown voltage, flash point, viscosity, acidity, moisture content, interfacial tension, loss factor and volume resistivity.



CONTROL AND INSTRUMENTATION

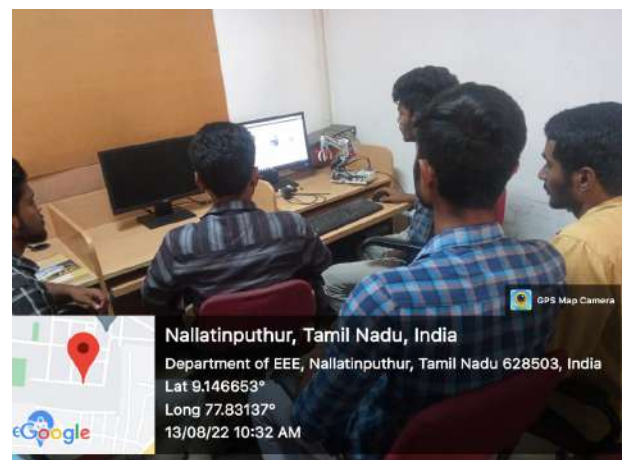
Control and Instrumentation Special interest group introduction class was organized on 06/08/2022. Mr. M. Sivapalanirajan organized the session with the possible directions of project development and publications through C&I lab facilities. 6 students participated in the discussion. They also had a visit around the lab to understand the software handled in the lab like MATLAB, LabVIEW, LEGO EV3 and the hardware interfacing facilities like Twin rotor motor model, Rotary inverted pendulum model and lego robot development module. They also observed the student projects available in the lab as completed project which let them make further improvement to the projects.



The students are motivated to have hands on practice to software routines and start project work with the lab facilities.

CONTROL AND INSTRUMENTATION

Control and Instrumentation Special interest group organized a “Hands on session on LEGO mindstorm EV3 robot” on 13/08/2022. Mr. M. Sivapalanirajan handled the session with the courseware of lego and the way to handle the hardware. 5 students participated in the discussion and they work with the robotic arm model.



The robot building process contains 88 steps. They are explained to the students with proper demonstration with robot working model. The students are motivated to work with the project as their mini project and instructed them to build various robotic model like plotbot, self balancing robot. They are informed to utilize the lab facilities in the free time to make publication

POWER ELECTRONICS AND DRIVES

SIG-Power electronics and drives was conducted on 06.08.2022 in lecture hall 3. The session was handled by *Mr.K.Karthik Kumar AP/EEE* by 9.15AM to 10.30AM on the topic of *“Importance of Power electronics in Electric Vehicles 2022-2032”*.

Tools Used: Power Point Presentation; MATLAB Simulink

Initially he explained that the definition of Power electronics and drives and electric vehicle with its history. Then he classified the various vehicles and its issues. And he explained the following definitions,

- ❖ Semiconductor switches and its importance's
- ❖ Power electronics converters
- ❖ Types of Power converters and its applications



Then he elaborately explained the importance of power converter and its role in electric vehicles. And the recent technology with its merits and demerits. Recent research of EVs towards pollution free environment by renewable source of energy and the scope of EVs in 2022-2032. Finally, he concludes with a MATLAB generated EV model as well as solar mounted EV car.

EMBEDDED SYSTEM

The department of EEE, Embedded System - Special Interest Group (SIG) conducted the introduction session for III year students of EEE department on 06.08.2022. The session is handled by *Mr.B.Venkatasamy, AP (SG)/EEE*. The session is started with the introduction to basics of microprocessor and microcontroller. The basic concepts were described such as number system, basic architecture of microprocessor based system, memories and IO system. The discussion was made for origin of microprocessor from recent to recent type of processor. Further, the topics covered in the session are about basic 8 bit microprocessor, addressing schemes, types of languages, simple programming concepts of 8 bit microprocessor. The students practiced for simple programming with different addressing modes.



ALUMNI INTERACTION

The event was organized in online on WEBEX platform for the third year EEE students on the topic “How to get placement in electronics companies?” **Mr.Harish Kumar A (2021 Batch Alumni - EEE)**, Design Engineer, Data patterns India Ltd, Chennai was the expert speaker. He gave a valuable speech and motivated the students to set their life time goals and how to achieve them. He also has given useful information about the interview preparation for the electronics core companies.

SOCIAL AWARENESS CELL



The social awareness cell of EEE department has organized “**Electricity Conservation, Safety, and First Aid**” an awareness program for **K. R. Saratha Govt. Hr. Sec. School**, Nalatinputur, kovilpatti on 29.08.2022 by morning 11.15AM. The session was started by Mr.K.Kumar, AP/EEE and he addressed the objectives of social awareness cell and explained the how to conserve electricity and handle it safely in schools and homes to the students. The he explained that the theft of electricity is non bailable offence under relevant provisions of the Electricity Act 2003. Theft of electricity is not only a loss to the BEST Undertaking, but it is loss to Society and Nation at large. It raises the cost of electricity to genuine customers. Further, it can lead to serious injury or death to general public and can cause financial loss due to electrical accidents, fires & explosions.

Final year students addressed that green energy important for environment as it replaces the negative effects of fossil fuels with more environmentally alternatives. Moreover they show various videos and animations related to electrical safety and conservation. Nearly 120 students have participated and gained more information regarding the awareness program.



Seminar Hall- Dept of EEE- National Engineering College, Kovilpatti, Tamil Nadu, India
Alumni interaction - EEE Association
Lat 9.145347°
Long 77.831546°
06/08/22 02:27 PM

STUDENT ACHIEVEMENTS/PARTICIPATIONS**RANK HOLDERS**

| S. No. | Academic Year | Year | Rank | Name of the Student |
|--------|---------------|------|------|-----------------------|
| 1. | 2020 - 21 | IV | I | H. SELVADEVI |
| 2. | 2019 - 20 | III | I | |
| 3. | 2018 - 19 | II | I | |
| 4. | 2020 - 21 | IV | II | T. LAVANYA NARAYANI |
| 5. | 2019 - 20 | III | II | |
| 6. | 2018 - 19 | II | II | |
| 7. | 2020 - 21 | IV | III | S. T. BALA AKALYA |
| 8. | 2019 - 20 | III | III | |
| 9. | 2020 - 21 | III | I | G. MUTHU JANANI |
| 10. | 2019 - 20 | II | III | |
| 11. | 2018 - 19 | I | I | |
| 12. | 2020 - 21 | III | II | R. AZHAGURAJ |
| 13. | 2020 - 21 | III | III | P. LATHA NIVEATHA |
| 14. | 2019 - 20 | II | I | |
| 15. | 2020 - 21 | II | I | J. JEY SHREE LAKSHMI |
| 16. | 2020 - 21 | II | I | A. MOHANA INDHU PRIYA |
| 17. | 2019 - 20 | I | I | |
| 18. | 2020 - 21 | II | II | R. RAHUL |
| 19. | 2020 - 21 | II | III | L. JAGATHISH |
| 20. | 2020 - 21 | I | I | S. RAGUL |
| 21. | 2020 - 21 | I | II | A. SELVA PRIYA |
| 22. | 2020 - 21 | I | II | S. MOHANA KRISHNAN |
| 23. | 2020 - 21 | I | III | L. PRIYADHARSHINI |
| 24. | 2018 - 19 | III | I | M. VAVUNIYA |
| 25. | 2018 - 19 | III | III | T.MAHALAKSHMI |
| 26. | 2019 - 20 | II | II | S. ARUN |
| 27. | 2018 - 19 | I | II | |
| 28. | 2019 - 20 | I | II | A. PERUMAL |
| 29. | 2019 - 20 | I | III | S. PON SARAVANAKUMAR |
| 30. | 2018 - 19 | III | II | L. MALINI |
| 31. | 2018 - 19 | III | III | R.K. GOBIGA |
| 32. | 2018 - 19 | II | III | S.S. MOHAMED IBRAHIM |
| 33. | 2018 - 19 | I | III | S. NANDHINI |

BEST VOLUNTEER AWARD**ACADEMIC YEAR 2021 - 2022**

| S.No | Name | Year | Club Name |
|------|----------------------|------|-----------------------------|
| 1 | S. SHANMUGA BHARATHI | IV | ISOI STUDENT CHAPTER |
| 2 | M. KRITHIK ROSON | IV | FINE ARTS CLUB, & EDC CELL |
| 3 | G. MUTHU JANANI | IV | JCI |
| 4 | V. KOKILA | IV | ECO CLUB |
| 5 | A.S.N. JAANU | III | RRC |
| 6 | J. JOYSLIN JANET | III | IE(I) |
| 7 | J. MICHAEL JERLIT | I | YRC |
| 8 | S. NANDHINI | IV | BEST GIRL CADET (BOYS UNIT) |

SPORTS ACHIEVEMENTS

| S.No | Event | Name | House | Place |
|------|-----------|-------------------|--------|--------|
| 1 | 200 mt | S.VENKATESHKANNAN | Yellow | First |
| 2 | 1500 mt | VELAISAMY | Red | Second |
| 3 | 1500 mt | PETHURAJ | Red | Third |
| 4 | Long Jump | S.VENKATESHKANNAN | Yellow | First |
| 5 | Shot Put | S.MATHAN RAJ | Yellow | First |



Mr.M.Kirthik Roson
(Best Volunteer Award) – FINE ARTS CLUB, & EDC CELL



Ms.G. Muthu Janani
(Best Volunteer Award) – JCI CLUB



Ms.V. Kokila
(Best Volunteer Award) – ECO CLUB



Mr.J. Michael Jerlit
(Best Volunteer Award) – YRC CLUB



Mr.S.Venkatesh Kannan
(200 mt and Long Jump) – First Place



Mr.S.Madhan Raj
(Shot Put) – First Place



Ms. S. Nandhini
(Best Volunteer Award) – BEST GIRL CADET (GIRLS UNIT)



Mr.S.Vellaisamy
(1500 mt) – Second Place

BEST OUTGOING STUDENTS



Mr.M.Kirthik Roson
*(B.E., Electrical and Electronics Engg.) –
Best Outgoing Male Student Award –
Academic Year 2021-2022*



Ms.H.Selvadevi
*(B.E., Electrical and Electronics Engg.) –
Best Outgoing Female Student Award –
Academic Year 2020-2021*

BEST SPORTS EXCELLENCE



Mr. B.Vignesh Murugan final year BE – Electrical and Electronics Engineering student for his achievement in sport named “SEPAK TAKRAW”. He won first place holder in 17th Sub Junior National Sepak Takraw Championship, Kurnool, Andhra Pradesh. 18th Sub Junior National Sepak Takraw Championship, Nagercoil, 20th Junior National Sepak Takraw Championship, Davangere, Karnataka. He also secured in II Place in 21st Junior National Sepak Takraw Championship, Mandi, Himachal Pradesh, 2nd in Quad event in All India Inter University Sepak Takraw Men’s Tournament. He also participated in International tournament like 5th Asian Beach Games, Da Nang, Vietnam., (International SEPAK TAKRAW Tournament).

STUDENT FEEDBACK ABOUT INTERVIEW PROCESS

- *Anuraga J - Final Year*

- *Perumal A - Final Year*

TESSOLVE RECRUITMENT PROCESS

SCREENING TEST:

It is common for all and questions were from,

- Circuit Theory
- Analog Electronics
- Digital Electronics
- 2 aptitude questions

L1: (Technical Round)

- It was done through an online conference.
- Questions were asked about the basics of analog and digital electronics.

1. Capacitor and uses
2. Draw band pass filters and its waveform
3. Why we use Fourier or Laplace transforms
4. Fourier transform real time applications
5. Voltage time frequency domain waveform in 3D
6. Flip-flop
7. Draw JK flip-flop
8. Conversion hexadecimal to decimal
9. Difference between Combinational and sequential circuit
10. Transformers
11. Motors
12. What Is digital electronics
13. Parameters for digital IC
14. Swaping of two numbers using pointers
15. Fibonacci series eliminating multiple of 4

L2 : (Technical Round)

- It was done through an online conference
- It all started with self-introduction.
- They asked to me write and draw certain basic circuits and characteristics waveforms
- The entire process was around 45 minutes and is more comfortable with the interviewer

Cognizant (Digital Nurture 2.0 Dot Genc Next Dot Net)

ROUND 1(Online):

- ✓ 4 HTML Program
- ✓ 2 CSS Program
- ✓ 2 SQL Program
- ✓ 10 Aptitude

ROUND 2:

- ✓ To complete the given tesktac course within the given time

ROUND 3(Online): Technical Interview

- ✓ Self Introduction
- ✓ Reverse the elements in array (C#)
- ✓ View bag View Data
- ✓ Left join Right Join
- ✓ Abstract Class
- ✓ What is trigger
- ✓ Inheritance
- ✓ What is protected and public
- ✓ Why you choose cognizant
- ✓ Lazy loading entity framework
- ✓ Approaches in entity framework
- ✓ View and partial view in MVC
- ✓ View data temp data
- ✓ View in SQL
- ✓ Union and Union all in SQL
- ✓ Function in SQL
- ✓ Difference in primary, foreign and unique Key
- ✓ What is list and array list

ROUND 4(Online): HR Interview

- ✓ Self Introduction
- ✓ What about the day
- ✓ What will you do with 1 core
- ✓ Willing to relocate
- ✓ Do you have passport

- *Bagawathi R, Final EEE*- *Balu P, Final EEE***TESSOLVE INTERVIEW PROCESS****SCREENING TEST:**

It is common for all and questions were from,

- ✓ Analog electronics
- ✓ Digital electronics
- ✓ Circuit theory
- ✓ 2 aptitude question

L1: (Technical Round)

- ✓ It was done through online conference.
- ✓ Questions were asked from basics of analog and digital electronics.

- ✓ Capacitor
- ✓ Inductor
- ✓ Application circuit
- ✓ Zener diode circuit and its basic questions
- ✓ Transistor
- ✓ Transistor as a switch design
- ✓ Universal gates and realization
- ✓ Transformer
- ✓ Motors
- ✓ Thyristors
- ✓ Tuning circuit
- ✓ Amplifiers and its types
- ✓ Swapping two numbers
- ✓ Swapping using pointers
- ✓ Write a program for number series omitting the multiples of three.

L2 : (Technical Round)

- ✓ It was done through online conference
- ✓ It all started with self introduction.
- ✓ They asked to me write and draw certain basic circuits and characteristics waveforms
- ✓ The entire process was around 2 hour and is more comfortable with the interviewer
- ✓ It is different form L1.

BRIMMA TECH INTERVIEW PROCESS**ROUND: 1 (Aptitude round)**

It's common for all

- ❖ Verbal and Logical Reasoning
- ❖ Speed and distance
- ❖ Time and work
- ❖ Relationship
- ❖ Probability

ROUND:2(Technical round)

- ❖ We are asked to learn C language and the basic concepts of data structures.
- ❖ They started the 2nd round with self intro.
- ❖ They gave some task to perform in basic logical question on C Programming ,like leap year or not, vowels or not using switch case, odd or even, positive or negative, swapping of two numbers.
- ❖ And the syntax of C programming concepts.
- ❖ Data structure concepts like array, function, structure, string etc.
- ❖ 2ndround was held on Google meet. The total time duration was around (1.30 hour).
- ❖ The whole interview process for the complete 1.30 hour is more comfortable for me with the interviewer.
- ❖ Finally, they asked to concentrate more on java script & backend concept in-depth. This is mainly used in company sides.
- ❖ I enjoyed their entire process of interview
- ❖ Finally, now I'm happy with my offer letter at Brimma tech.

PRESS CLICKS – SOCIAL AWARENESS CELL ACTIVITIES

நேஷனல் பொறியியல் கல்லூரியில் மின்சார பாதுகாப்பு விழிப்புணர்வு நிகழ்ச்சி

கோவில்பட்டி, ஆக. 31-
கோவில்பட்டி நேஷனல் பொறியியல் கல்லூரியில் மின்சார பாதுகாப்பு மற்றும் சேமிப்பு விழிப்புணர்வு நிகழ்ச்சி நடந்தது.

இக்கல்லூரியின் மின்னியல் மற்றும் மின்னணு பொறியியல்துறை சமுதாய விழிப்புணர்வு மையம் சார்பில், நாலாட்டின்புதூர் கே.ஆர். சாரதா அரசு மேல்நிலைப்பள்ளி மாணவ, மாணவிகளுக்கு மின்சார பாதுகாப்பு மற்றும் அதன் சேமிப்பு குறித்த விழிப்புணர்வு நிகழ்ச்சி நடந்தது. கல்லூரி உதவிப் பேராசிரியர் குமார், பேசுகையில், மின்சாரத்தினால் ஏற்படும் ஆபத்து மற்றும் மின் அதிர்ச்சி



கோவில்பட்டி நேஷனல் பொறியியல் கல்லூரியில் மின்சார பாதுகாப்பு மற்றும் சேமிப்பு விழிப்புணர்வு நிகழ்ச்சி நடந்தது.

யில் இருந்து எவ்வாறு நம்மை பாதுகாத்துக் கொள்ளலாம் உள்ளிட்ட பல்வேறு அம்சங்கள் குறித்து கூறினார். இதுபோல் நான்காம் ஆண்டு மாணவர்கள் மின் சிக்கனம், அவற்றின் நன்மைகள் போன்றவற்றை படம் காட்டும் கருவி மூலமாக நடத்தும், பேசியும் காட்டினார்.

ஏற்பாடுகளை கல்லூரி இயக்குனர் சண்முகவேல், முதல்வர் காளிதாஸ் முருகவேல், மின்னியல் மற்றும் மின்னணு பொறியியல் துறைத் தலைவர் வில்ஜூலிஸ் இருதயராஜன் ஆகியோர் வழிகாட்டுதலின்படி உதவிப் பேராசிரியர் குமார் மற்றும் மாணவர்கள் செய்திருந்தனர்.

4 மாலைமுரசு 30.8.2022 ★
நேஷனல் பொறியியல் கல்லூரியில் மின்சார பாதுகாப்பு - சேமிப்பு விழிப்புணர்வு நிகழ்ச்சி! 4-ம் ஆண்டு மாணவர்கள் சாதனை!!



கோவில்பட்டி, ஆக.30- நேஷனல் பொறியியல் கல்லூரி, மின்னியல் மற்றும் மின்னணு பொறியியல்துறை சமுதாய விழிப்புணர்வு மையம் சார்பில், நாலாட்டின்புதூர் கே.ஆர்.சாரதா அரசு மேல்நிலைப்பள்ளி மாணவ மாணவிகளுக்கு மின்சார பாதுகாப்பு மற்றும் அதன் சேமிப்பு குறித்த விழிப்புணர்வு

நிகழ்ச்சி நடைபெற்றது. கல்லூரி, உதவிப்பேராசிரியர் க.குமார் சமுதாய விழிப்புணர்வின் முக்கியத்துவத்தை மாணவர்களுக்கு எடுத்துரைத்து, மின்சாரத்தினால் ஏற்படும் ஆபத்தினையும், மின்அதிர்ச்சியில் இருந்து எவ்வாறு நம்மை பாதுகாத்துக் கொள்வது என்பதுபற்றியும் உரையாற்றினார். முறைகேடாகவும், நடித்தும், பேசியும் காட்டி மாணவர்களுக்கு பலவகையில் எளிதாக புரியும்வண்ணம் சிறப்பாக எடுத்துரைத்தனர். கல்லூரி இயக்குனர் முனைவர் எஸ்.சண்முகவேல், முதல்வர் முனைவர் கே.காளிதாஸ் முருகவேல், மின்னியல் மற்றும் மின்னணு பொறியியல் துறைத் தலைவர் முனைவர் எம்.வில்ஜூலிஸ் இருதயராஜன் ஆகியோர்களின் வழிகாட்டுதலின்படி உதவிப் பேராசிரியர் க.குமார் மற்றும் நான்காமாண்டு மாணவர்கள் இந்தநிகழ்ச்சிக்கான ஏற்பாடுகளை சிறப்பாக செய்திருந்தனர்.

தினகர் தூத்துக்குடி

நேஷனல் பொறியியல் கல்லூரி சார்பில் மின்சார பாதுகாப்பு விழிப்புணர்வு நிகழ்ச்சி

கோவில்பட்டி, செப். 1-
கோவில்பட்டி நேஷனல் பொறியியல் கல்லூரி மின்னியல் மற்றும் மின்னணு பொறியியல் துறை சமுதாய விழிப்புணர்வு மையம் சார்பில், நாலாட்டின்புதூர் கே.ஆர்.சாரதா அரசு மேல்நிலைப்பள்ளி மாணவ-மாணவிகளுக்கு மின்சார பாதுகாப்பு மற்றும் அதன் சேமிப்பு குறித்த விழிப்புணர்வு நிகழ்ச்சி நடைபெற்றது. கல்லூரி உதவிப் பேராசிரியர் குமார், சமுதாய விழிப்புணர்வின் முக்கியத்துவத்தை மாணவர்களுக்கு எடுத்துரைத்து, மின்சாரத்தினால் ஏற்படும் ஆபத்தினையும், மின் அதிர்ச்சியில் இருந்து எவ்வாறு நம்மை

பாதுகாத்துக் கொள்வது என்பது குறித்து பேசினார். மேலும் மின்சாரம் இல்லாமல் நம் வாழ்க்கை இயங்காது என்ற சூழலுக்கு வந்துவிட்டோம். அதிகரிக்கும் மின்சார தேவையை பூர்த்தி செய்வதற்கு ஆற்றல் மூலம் பூர்த்தி செய்யலாம், என்றார்.

நிகழ்ச்சிக்கான ஏற்பாடுகளை கல்லூரி இயக்குனர் சண்முகவேல், முதல்வர் காளிதாஸ் முருகவேல், மின்னியல் மற்றும் மின்னணு பொறியியல் துறைத் தலைவர் வில்ஜூலிஸ் இருதயராஜன் ஆகியோர் வழிகாட்டுதலின்படி உதவிப் பேராசிரியர் குமார் மற்றும் 4ம் ஆண்டு மாணவர்கள் செய்திருந்தனர்.

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