NEW HORIZON
COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC

Accredited by NAAC with 'A' Grade, Accredited by NBA

DEPARTMENT OF
ELECTRICAL AND ELECTRONICS ENGINEERING

AUTUMN TRONICLES

(BI-ANNUAL EEE MAGAZINE)

JULY-DEC'20

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MESSAGE FROM CHAIRMAN

It's pleasure to present my views for the biannual EEE magazine for Autumn Tronicles 2020. The Department of Electrical and Electronics Engineering has always been one of the most active and happening Departments of our Institute and has brought us lot of pride over the past. The Institute as a whole has been undergoing very drastic reforms in terms of curriculum updation and course structure.

- DR. MOHAN MANGHNANI

The EEE Department has taken up these readily which we hope will work for the benefit of the students. The new course plans have been applied to some of the senior years in UG apart from the first years as well, and we look forward to the feedback on the same to ensure we're moving on the right path. It is always good to see the students bring out their creative and hidden talents in any form and this would be a perfect platform for the students of the Department. This would also serve as an apt magazine for the sharing of technical articles by faculty and students from their respective areas of research. All the very best.

MESSAGE FROM PRINCIPAL

- DR. MANJUNATHA

At NHCE, We understand that the need to teach beyond curriculum so as to make our students 'Industry Ready'. Recent observations made by many stalwarts in the industry indicate the fact that a majority of Engineering Graduates out of colleges are not employable. NHCE has always been in the forefront in ensuring that students are employable.

It gives me immense pleasure to pen a few words as prologue to the in-house magazine of the EEE department, Autumn Tronicles 2020. The issue is designed to present the events that have occurred as well as technical write-ups which makes the issue resourceful and informative. I congratulate all the contributors and also editorial board for bringing out such a nice issue. Happy Reading.

MESSAGE FROM HEAD OF DEPARTMENT

- DR. MAHESH M

It is my pleasure to pen my views for release of this semester issue of "Autumn Tronicles 2020". I am extremely delighted to acknowledge that the editorial team has done a stupendous job of subsuming all the key events which have taken place over the course of last few months. To Top it off, this Magazine includes major events witnessed by our department as well as Engineering Advances in the Electrical Field.

The essential objective of the Technical Magazine is to inform, engage, inspire and entertain a diverse readership – including students, faculty, parents and alumni- with a timely and honest portrait of our department activities. This issue has made an earnest attempt in this direction and all the credit for its success falls upon faculty and students who have worked with dedication and enthusiasm to bring the issue forward. I convey my regards to all the readers.

MESSAGE FROM FACULTY ADVISOR

- DR. S. SUJITHA

On Behalf of the Team, I am delighted on the launch of the issue of "Autumn Tronicles 2020", on the eve of currents. The Clubs of EEE Department has played its instrumental role, this academic year as well, alike the previous years, through the year long activities of various workshops and social events.

The EEE Magazine has been experiencing a paradigm growth in the recent past and is now taking a new shape as a technical magazine adding a new flavour every year. I appreciate this initiative and wish whole heartedly that Spring Tronicles accomplish greater heights and wider reach. With no doubt I aspire the EEE students to take this association and the magazine to an elevated horizon. Wishing you a very great and successful venture ahead.

MESSAGE FROM FACULTY ADVISOR

- MR. VINOD KUMAR S

Nurturing creativity and inspiring innovation are two of the key elements of a successful education, and a college magazine is the perfect amalgamation of both. It harnesses the creative energies of the academic community and distils the essence of their inspired imagination in the most brilliant way possible. Hence, I am highly privileged to know that New Horizon College of Engineering, EEE department magazine "Autumn Tronicles" is ready for publication.

"Autumn Tronicles" provides an intersection of great challenge and great opportunity for the students to review their efforts and to analyze their achievements in all areas of skill development. Technology is evolving at a dizzying rate and our classrooms may not be designed to keep pace with it.

I congratulate the team of students for their tireless efforts that have come to fruition in the form of this magazine. I wish it all success and hope that this tradition that has been set by the current students will be carried through by the following generation of students to come.

EDITORIAL TEAM

Dr. S. SUJITHA
Faculty Advisor

Mr. VINOD KUMAR S
Faculty Advisor

Ms. M ROHITH KUMAR REDDY

Ms. YASHVANTHA P

Ms HARSHITHA R

Mr. MANOJ KUMAR H V

Ms JHANSIPRIYA W Y

Ms. RACHNA PALLI

Ms. MEGHANA S

ABOUT THE DEPARTMENT

Electrical and Electronics Engineering is a continuously evolving branch of engineering. As technology has advanced, so have the challenges facing the modern engineer. EEE is a subject that naturally partners with other disciplines with whole new engineering avenues. From the very inception of the college in 2001,the Department of EEE offers four-year full-time B.E program under three variants Global, Professional and Executive, affiliated to VTU with the intake of 60 students, now boast of 120 students per year.

The Department is equipped with all the required laboratories, infrastructure, and classrooms. The B.E Degree program is designed to achieve a balance between depth of knowledge acquired through specialization and breadth of knowledge gained through exploration. The undergraduate degree courses offered by department provide a comprehensive foundation in the core topics of EEE coupled with an area of specialization relevant to emerging engineering challenges.

The curriculum has been designed to create professional electrical and electronics engineers, who can serve the fields of core Electrical Engineering, information and communication systems, and other related fields.

VISION & MISSION

To evolve into centre of excellence in Electrical and Electronics Engineering for bringing out contemporary engineers, innovators, researchers, and Entrepreneurs for serving nation and society.

To provide suitable forums to enhance the teaching – learning, research, development activities.

Framing and continuously updating the curriculum to bridge the gap between industry and academia in the contemporary world and serve society.

To inculcate awareness and responsibility towards the environment and ethical values.

PROGRAM OUTCOMES (POs)

Electrical and Electronics Engineering Graduates will be able to:

Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues, and the consequent responsibilities relevant to the professional engineering practice.

Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

Individual and teamwork: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

Life-long learning: Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO 1: Graduates will be able to solve real life problems of power system and power Electronics using MiPower, PSPICE and MATLAB software tools and hardware.

PSO 2: Graduates will be able to develop and support systems based on Renewable and sustainable Energy sources.

Seminars and Workshops

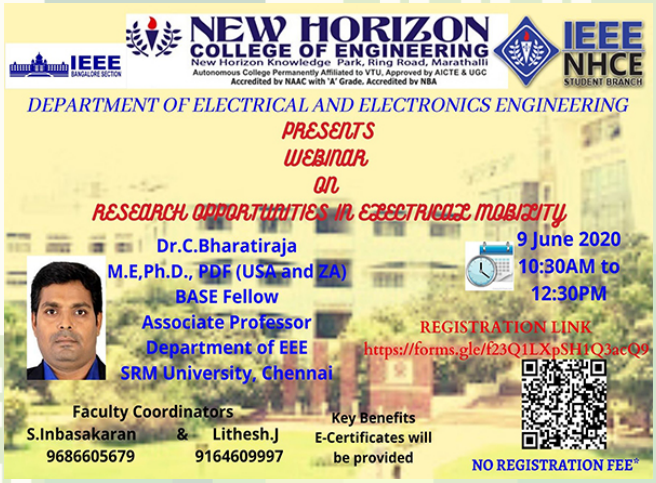
FDP on “Recent trends and research perspective on electrical drives, power electronics and power system”

Date: 09/06/2020
Time: 09:00 am

The role of power electronics on our society in the future will tend to be as important and versatile as that of information technology today.

The recent advances of power semiconductor devices, converters, variable-frequency AC drives, and advanced control and estimation techniques will be reviewed.

Webinar on “Research Opportunities in Electrical Mobility – Towards Complete EV Fleet Development”



Date: 09/06/2020
Time: 10:30 am To 12:30 pm
Your paragAnalysis of real-world trip and charge data from an electric vehicle (EV) fleet.

Indian position to pursue an EV policy which systematically ensures that India’s EV program keeps pace with the global scale since large economies seem to take significant steps towards electrification of vehiclesraph text

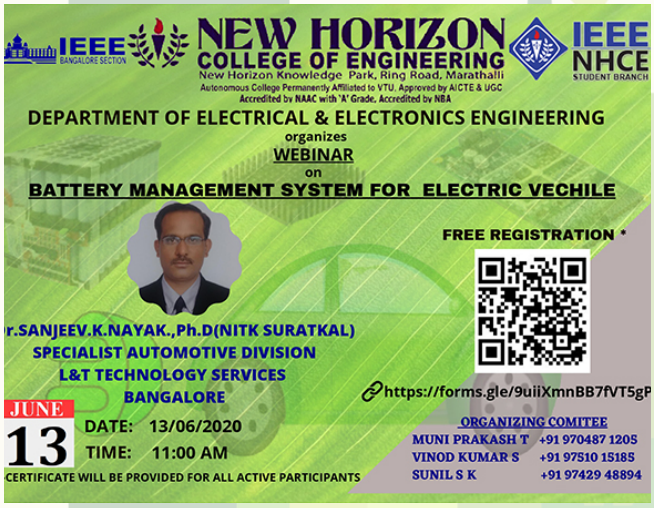
Webinar on “The Immutable force of Blockchain Technology”

Date: 08/06/2020 To 08/06/2020
Time: 10:00 am To 11:30 pm

Blockchain technology has many potential use cases for enterprises. The simplest, and perhaps best known, is as a substitute for state-issued money. Bitcoin, Ethereum and other cryptocurrencies have been touted as a means to expedite electronic payment and to make cross-border remittance without bank intermediaries possible.

Webinar on “Battery Management System for Electric Vehicle”

Date: 13/06/2020 To 13/06/2020
Time: 11:00 am To 12:30 pm



Careful design considerations on charging and discharging processes on battery protection and cell monitoring will support you throughout your design. Design resources for a battery management system, help you to overcome your design challenges and support your success in developing more efficient, longer-lasting and more reliable battery-powered applications.

"Webinar on “Wearable Electronics for Medical & Defence Applications”

Date: 12/06/2020 To 12/06/2020
Time: 10:00 am To 12:30 pm

The concept of battlefield and military operations has changed significantly over the years due to technological revolutions. The nature of support provided by sensor technologies could be wide ranging from simple sensors to AI-based tools for real-time intelligence sharing and decision support.

However, with continuous technological advancements in the fields of wireless sensors, the Internet of Things (IoT), robotics, cognitive sciences, image sensors, wearables and nanotechnology, sensors have a huge potential and can be explored further for military applications.

Webinar on “Sensors and Instrumentation”

Date: 11/06/2020 To 11/06/2020
Time: 10:30 am To 01:30 pm

Fundamental properties for researchers wish to measure. Test equipment for the optical communications industry, materials characterization systems, support electronics and all manner of sensors and detectors for discussion.

Webinar on “Personal Finance for faculty in Engineering colleges”

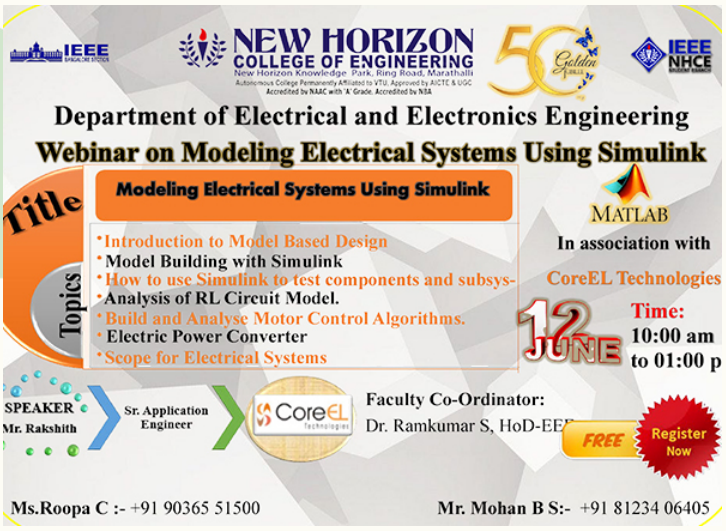
Date: 04/06/2020 To 04/06/2020
Time: 10:30 am To 12:00 pm

COVID-19 Crisis Poses Threat to Financial Stability.
Universities and schools across the country have been closed since March 16 when the central government announced a countrywide classroom shutdown as one of the measures to contain the COVID-19 outbreak.
Discussion on personal finance for faculty in engineering colleges.

Webinar on “Design of Digital audio playback system for embedded applications”

Date: 07/06/2020 To 07/06/2020
Time: 04:00 pm To 05:00 pm
Discussion on how the video is playing increasing important role in making a digital product successful. To know some of market facts and trends on importance of video in electronics systems.
Discussion on how ARM and MIPS processors are capable of handling audio and video effectively and so is gaining popularity in use for various convergence application.

Webinar on “Modeling Electrical Systems Using Simulink”



Date: 12/06/2020
Time: 10:00 am

Modeling Electrical Systems Using Simulink

Introduction to Model Based Design, Model Building with Simulink, How to use Simulink to test components and subsystems, Analysis of RL Circuit Model, Build and Analyse Motor Control Algorithms, Electric Power Converter and Scope for Electrical Systems

Hands-On workshop Introduction to Matlab and Simulink

Date: 16/06/2020 To 16/06/2020
Time: From:02:30 pm To 04:30 pm

Modeling Electrical Systems Using Simulink.

Introduction to Model Based Design, Model Building with Simulink, How to use Simulink to test components and subsystems, Analysis of RL Circuit Model, Build and Analyse Motor Control Algorithms, Electric Power Converter, Scope for Electrical Systems and Matlab over Mobile.

Webinar on “Intellectual Property Rights”

Date: 17/06/2020
Time: 10:00 am

What is intellectual property. Understanding Copyright and Related Rights | Understanding Industrial Property. WIPO Intellectual Property Handbook - a comprehensive guide to the policy, law and use of IP. Rules related to India.

Webinar on “Industrial Automation and SCADA”

Date: 18/06/2020 To 18/06/2020
Time: 11:00 am To 12:30 pm

Motion Control products for automation solutions include motion controllers, drives, motors and robotics. Add Intelligence to Motor Control. Discover how to optimize operational performance of LV motors through advanced protections and embedded intelligent functions.

Webinar on “Renewable Energy Sources”

Date: 14/06/2020 To 14/06/2020
Time: 10:00 am To 12:30 pm

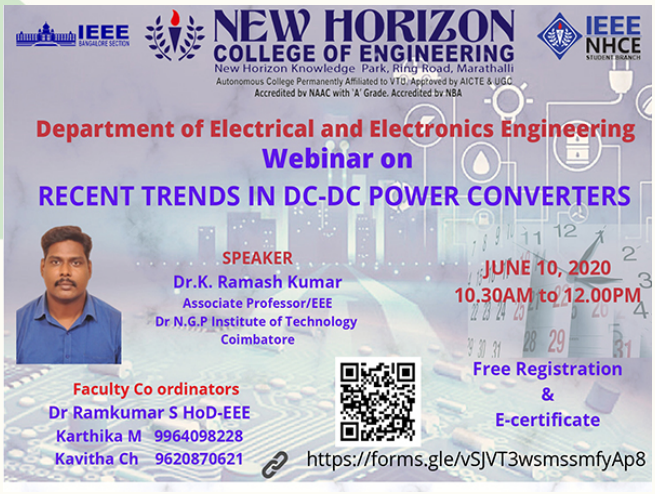
Webinar to learn more about how renewable energy mini/micro grid projects can be developed and be financed. Challenges, opportunities and best practices to assist project developers in developing power projects

Five Days International Webinar series on “Emerging Green Technologies for Smart Cities: Challenges and Opportunities”

Date: 16/06/2020 To 20/06/2020
Time: 10:00 am To 12:30 pm

An analysis of the most interesting initiatives at the international level pursued by cities investigating the three main areas of Green Buildings, Smart grid-Smart lighting, and Smart mobility is given, with the objective to offer a broad reference for the identification of development sustainable plans and programs at the urban level within the current legislative framework.

Webinar on “Recent Trends in DC-DC Power Converters”



Date: 10/06/2020 To 10/06/2020
Time: 10:30 am To 12:00 pm

Discussion on the rising demand for environment friendly electric vehicles is driving the growth of DC-DC Converters market. The demand is increasing among customers due to its exceptional benefits such as minimized amount of noise, immediate torque, premium performance, maintenance cost, and lower fuel thus growth of DC-DC Converters market.

International Webinar on “Intelligent Control Systems”

Date: 29/05/2020 To 29/05/2020
Time: 10:00 am To 01:00 pm

Discussion on, Closed loop control using ANN, Fuzzy controller design and Optimization techniques. Control systems design, modelling, identification, and operation that use artificial intelligence techniques, such as fuzzy logic, neural networks, machine learning, evolutionary computation, and genetic algorithms.

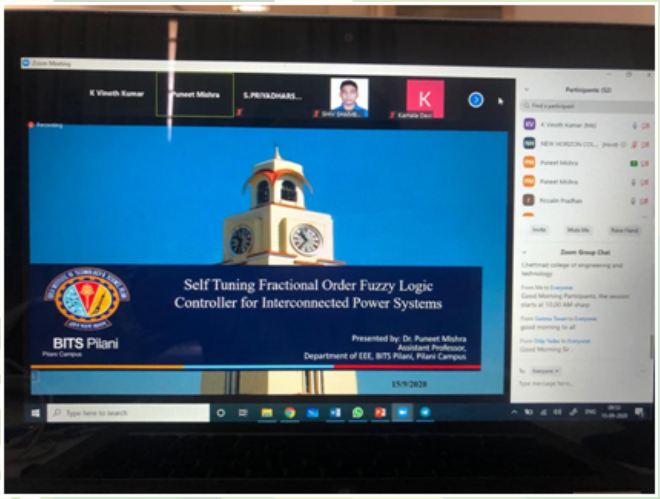
“Online Hands-on Workshop using MATLAB & SIMULINK Research Perspective”.

Date: 01.09.2020 - 04.09.2020
Time: 10.00 AM

Department of EEE organized 4-Days Online Hands-on Workshop using MATLAB & SIMULINK Research Perspective, from 1st to 4th of September 2020, in two Session from 10 AM to 12 PM & 2 PM to 4 PM for Research Scholars and faculty of all the engineering colleges. Simulation is a key part of the Power Electronics and Electric drives design and analysis process. It helps the design engineer to have a better understanding of the circuit operation and possible problems can be discovered in the early phase of the design process. The workshop is to facilitate the modeling of Power Electronics and Drives using MATLAB and SIMULINK in an elegant way and to enrich the participant's technical skills and was conducted successfully certificates are provided to participants

“Faculty Development Programme on Research Challenges in Renewable Energy Technologies – RCRET-2020”.

Date: 14.09.2020
Time: 10.00 AM



The seven days Faculty development programme focused on Recent advances in Smart Grid Technologies, Intelligent Controller in Solar Energy, Research Challenges in Wind Energy Conversion Systems, Integration of Renewable energy sources to Grid, Machine Learning for Smart Grid, An insight to VFD based centrifugal pump efficiency improvements.

Three days Hands-on Workshop on “Introduction to Data Entry/Analysis using Microsoft Excel & Introduction to Arduino Embedded System.

From:27-10-20 To 29-10-20
From: 10:30 amTo 4:30 pm

The Department of Electrical and Electronics Engineering, New Horizon College of Engineering, Bengaluru organized successfully a Three days Hands-on Workshop on “Introduction to Data Entry/Analysis using Microsoft Excel & Introduction to Arduino Embedded System.during October 27 - 29, 2020.

National Workshop on “Research Challenges in Advanced Power Converters for Electrical Engineering Applications”- EEE Dept

The Department of Electrical and Electronics Engineering, New Horizon College of Engineering, Bengaluru organized successfully a Three-Days online National Workshop Programme on “Research Challenges in Advanced Power Converters for Electrical Engineering Applications” during October 27 - 29, 2020 in association with IEEE NHCE Student Branch Chapter.

The objective of the programmewas to bring the researchers and academic experts from reputed institutes of our country to a collective gathering for exchanging and sharing knowledge about the recent developments and research challenges in advanced power converters for electrical engineering applications.

E-MOBILITY in India" – National Webinar in association with "SKILL-SHARK Edu Tech – EEE Dept

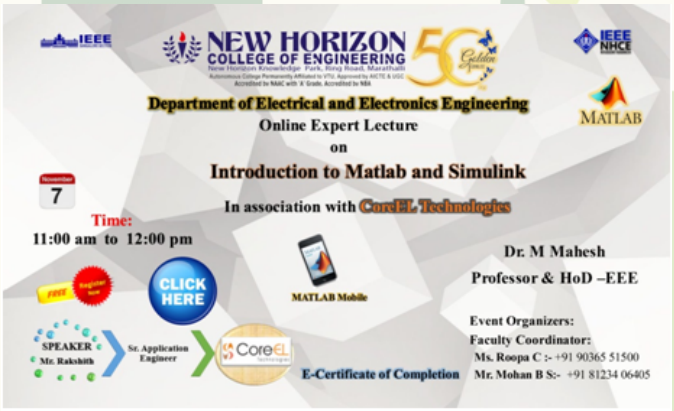
Date: 26-10-20 To 26-10-20
Time: 11:00 am To 12:00 pm

Department of Electrical and Electronics Engineering, New Horizon College of Engineering, Bengaluru, India organized successfully - National Webinar on "E-Mobility in India" In Association with SkillSharkEduTech Pvt Ltd

Topics Covered:

- Indian Transportation Industry Overview
- Future of Mobility in India
- Global and Indian EV Market Segmentation
- Types of Electric Vehicles
- Key Market Players of Indian EV Industry
- EV Ecosystem

Department of EEE organized "online Expert Lecture on Introduction to Matlab and Simulink".



The Department of Electrical and Electronics Engineering, organized an online Expert Lecture on Introduction to Matlab and Simulink" on 7thNovember 2020 through NHCE ZOOM online platform for around 60 EEE students are participated. This guest lecture provided the information about the usage of MATLAB/Simulink, Basics of MATLAB/Simulink and to solve simple and complex problems.

Date: 07.11.2020 To: 07.11.2020
Time: 10.00 AM To: 12.00 PM

Two days Online Hands-On National Workshop on “Real-time Simulation Tool for Electrical Engineers-Typhoon HIL”

Date: 04-12-2020 To 05-12-2020
Time: 10:00 to 12:00 To 14:00 to 16:00

Department of Electrical and Electronics Engineering, New Horizon College of Engineering, Bengaluru, India Organized Two days online Hands-On National Workshop on “Real-time Simulation Tool for Electrical Engineers-Typhoon HIL” in Association with Quarbz Info systems, Kanpur.

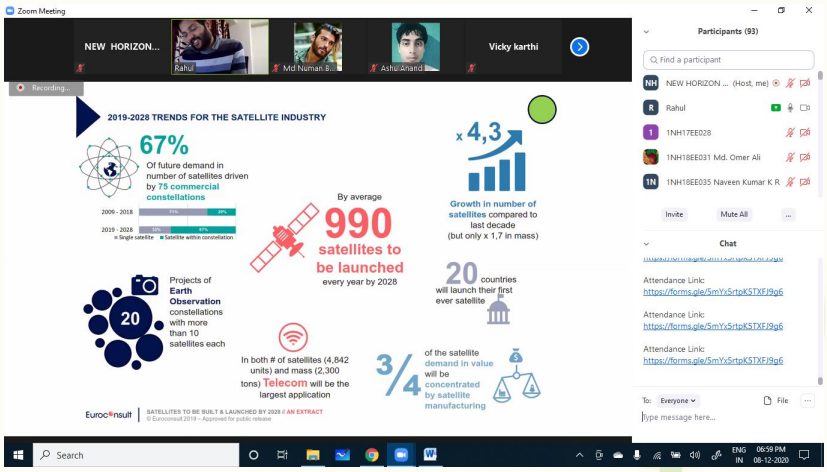
This workshop aimed to provide hands-on experience on the Hardware in the Loop (HIL) Emulator & Software. The registered participants received licensed version of Typhoon HIL software during the workshop &had an exposure to the energy applications like smart grid, renewable energy and distributed generation, etc. The workshop included practice sessions on the HIL real- time simulation, modeling of single-phase inverter, modeling and simulation of MPPT Boost Charger & Micro- Grid controllers.

“Guest Lecture on “Applications of Signal Processing”.

The Department of Electrical and Electronics Engineering, organized a Guest Lecture on “APPLICATIONS OF SIGNAL PROCESSING” on 11th December 2020 through NHCE ZOOM online platform for around 115 V semester, EEE students. This guest lecture is a part of a curriculum named Signals And Systems 20EEE54 for the students. The expert Dr.Guruprasad , Assistant Professor from medical electronics engineering department, SSIT, Tumkur The session was interactive, interacted with experts for clarifying all their doubts. Session provided a platform for students to express their ideas, clarify doubts and gain knowledge on image processing applications and which gives practical approach to their course and which motivated the students in many aspects.

Date: 11.12.2020
Time: 10.00 AM To: 12.00 PM

International Webinar on “Low Earth Orbit Satellites”



Date: 08-12-2020 To 08-12-2020
Time: 18:00 To 19:00

The Department of Electrical and Electronics Engineering, New Horizon College of Engineering, Bengaluru organised an International Webinar on “Low Earth Orbit Satellites” on 08th December 2020, Tuesday from 06.00 PM to 07.00 PM. The objective of the programme is to bring the researchers and academic experts from reputed institutes of our country to a collective gathering for exchanging and sharing The entire session is handled by a resource person Dr. Rahul Sharma K, Attitude & Orbit Control Engineer, Spacecraft Design Group, Axelspace Corporation, Tokyo, Japan and delivered a speech on a Low Earth Orbit Satellites is available with a wide range of industrial applications. He also mentioned that types of orbit, orbit altitudes of many significant satellites on earth, Kaplerian orbital elements and Attitudes levels in several stages like detumbling, sun pointing, Nadir pointing and Ground station pointing. The entire session is very informative and enthusiastic manner in the area of space industry. The eminent expert from the Axelspace Corporation delivered the lecture and his talk has been very well received by the participants.

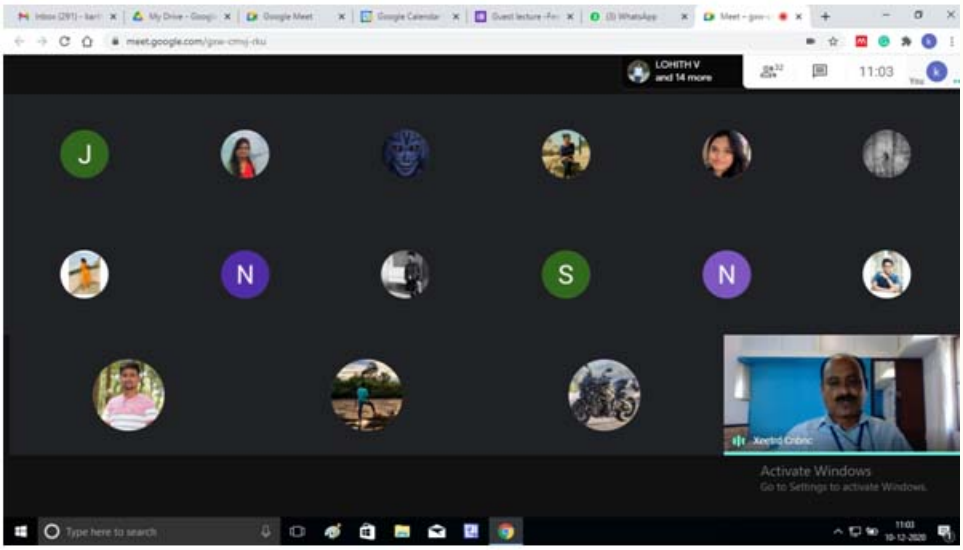
5-Days Research Conclave on Power Electronics.

Date: 07-12-2020 to 12-12-2020

Excessive usage of electricity in the residential sector is the main reason for frequent peak demand in India. Proper implementation of Demand-Side Management (DSM) along with the Energy-Efficient (EE) method is an efficient way to address these peak demand issues.

Smart Grid Technologies can be an efficient tool to implement DSM and EE. There are plenty of opportunities available in the public and private sectors to those who know Smart Grid Technologies. In this context, it is important to motivate faculty and industry personnel to get trained on Smart Grid Technologies. This Short-Term Training Program would act as a platform to train the trainers on Smart Grid Technologies to help the students to have successful careers in the Smart Grid industry.

Guest Lecture On “Electric Traction Systems & Employment Opportunities In Indian Railways



The Department of Electrical and Electronics Engineering, organized a Guest Lecture On "Electric Traction Systems & Employment Opportunities In Indian Railways" on 10th December 2020 through Googlemeet online platform. This guest lecture is a part of a curriculum named Utilization of Electrical Energy(EEE741) for the VII semester students. The guest speaker was Mr C.T ANTO,Electrical Executive Engineer,Indian Railways, South Western Railway,Bengaluru.

The speaker explained the practical concepts of electric traction and the traction control in Indian railways. He has given the details of employment opportunity in Indian railways which motivated the students in many aspects.

CLUB ACTIVITIES

Green Energy Club organized "War of Words –A Debate Challenged"

Date: 11-11-2020 To 11-11-2020
Time: 14:00 To 17:00

'War of Words' is a debate challenge that was conducted by the Green energy Club, Electrical and Electronics Department, on 11th November,2020 to bring out the best of the participants, to acquire knowledge on various topics and enhance the participants' communication and debating skills.

U-CREATE CLUB presents HULTPRIZE

Date: 20/11/2020 to 20/11/2020
Time: 05.00 pm To 06:00 pm

Hult on-campus selection is done by conducting an event which consists of several teams of 3-4 members each and each team would be put through several rounds and would be judged as per the criteria given by Hult and the team that wins the On-campus round move on to the Regional round and from there continue their journeys forward. The On-campus round can be conducted through online or offline mode whichever is convenient depending on the situation of the current pandemic.

Hult IDEAthon 1.0 – Grand Finale

Date: 09-12-2020 To 09-12-2020
Time: 10:00 AM

Hult on-campus selection is done by conducting an event which consists of several teams of 3-4 members each and each team would be put through several rounds and would be judged as per the criteria given by Hult and the team that wins the On-campus round move on to the Regional round and from there continue their journeys forward. The On-campus round can be conducted through online or offline mode whichever is convenient depending on the situation of the current pandemic.

'Soft Vidya'- Online Training Sessions on different Software tools for Electrical and Electronics Engineering applications.

Sl No	Resource Person	Date	Timing	Topic
1	Dr. Vinoth Kumar K	11-Nov-2020	04:00PM-05:30PM	LabVIEW
2	Dr. Vinoth Kumar K	20-Nov-2020	04:00PM-05:30PM	MATLAB Basics
3	Dr. Vinoth Kumar K	25-Nov-2020	04:00PM-05:30PM	Simulink Basics
4	Ms. Anitha A	27-Nov-2020	04:00PM-05:30PM	Simulink Basics
5	Dr. Guna Priya B	2-Dec-2020	04:00PM-05:30PM	Multisim
6	Dr. Singaravelan A	4-Dec-2020	04:00PM-05:30PM	Tinkercad,Proteus
7	Dr. Prabhakarn N	9-Dec-2020	04:00PM-05:30PM	MPLAB/ Keil
8	Mr. Joshua Daniel Raj	11-Dec-2020	04:00PM-05:30PM	Xilinx
9	Ms. Deepa V Bolanavar	16-Dec-2020	04:00PM-05:30PM	Unity Pro

...not just software! ...not just for simulation!

Date: 11/11/2020 to 16/11/2020

The sessions were handled by Dr.Vitnothkumar,Dr.Gunapriya,Dr.Singaravelan, Dr. Prabhakaran Ms.Anitha A and Ms.Deepa V B on various software tools from 11November 2020 to 16th December 2020 two days a week. The event was organized by Ms. Deepa V Bolanavarand Dr. Vinoth Kumar S under E-Soft club and coordinated by following student members of the club.

Md. Sagar Khan-Vice President, Ashwini L B-Treasurer

Md. Numan Bhat-Core Member,

Sarthak Das-Core Member

Prajwal- Core Member, Utkarsh K A- Core Member

The event was successfully completed with address by HoD Dr. Mahesh M and vote of thanks by Ms.Deepa V B

EEE department U- Create Club, HULT PRIZE Finale Results Announcement

Date: 16-12-2020 to 16-12-2020
Time: 4:00 PM

We are extremely proud to announce our HultPrize OnCampus Winner Team NAVONMESH comprising of Abhisek Bedant, Bharatdeep Hazarika, Sachin R and Devanshi Shrivastava
They will be representing NHCE Bangalore in the regionals INTERNATIONALLY and are one step closer to the Global Accelerator Programme.

EEE departments Green Energy Club conducted "GREEN FEST"

Date: 14-12-2020 To: 15-12-2020
Time: 14:00 To:16:00

'GREEN FEST' that was conducted by the Green energy Club, Electrical and Electronics Department, on 14TH AND 15TH of December,2020 to bring out the best of the participants, to acquire knowledge on various topics and enhance the participants' communication skills, creative skills and their knowledge about various locations.

CONFERENCES

Sl.NO	Academic Year	Name of the Faculty	Conference Activity	Dates	Organization
1	2020-2021	Dr. Vinoth Kumar K	International Conference on Power Instrumentation, Control and Computing (PICC 2020)	17.12.2020 to 19.12.2020	Government Engineering College, Thrissur
2	2020-2021	Dr. Vinoth Kumar K	Virtual Global Summit Conference title: Artificial Intelligence: Responsible AI for Social Empowerment RAISE2020	05.10.2020 to 09.10.2020	Ministry of Electronics and Information Technology, Government of India
3	2020-2021	Dr. Vinoth Kumar K	International Conference on Robotics and Artificial Intelligence 2020 (RoAI 2020)	28.12.2020 to 29.12.2020	Indian Institute of Technology, Madras

WORKSHOPS

Sl.no	Year	Name of the faculty	Workshop	Date	Organization
1	2020-21	Dr. Vinoth Kumar K	Workshop title: The Development of the Energy Internet of Things (eIoT) in Green Energy Infrastructure	01.09.2020 to 05.09.2020	National Institute of Technology, Silchar
2	2019-20	Dr. Gunapriya B	Workshop on MATLAB and its Applications in Electrical Engineering	20th to 24th July 2020	SV College of Engineering, Tirupati
3	2019-20	Mr. Joshua Daniel Raj	Workshop on Understanding OBS Studio & Streamyard for E Content Creation and Live Streaming	10th & 11 July 2020	Dr. MGR Educational & Research Institute

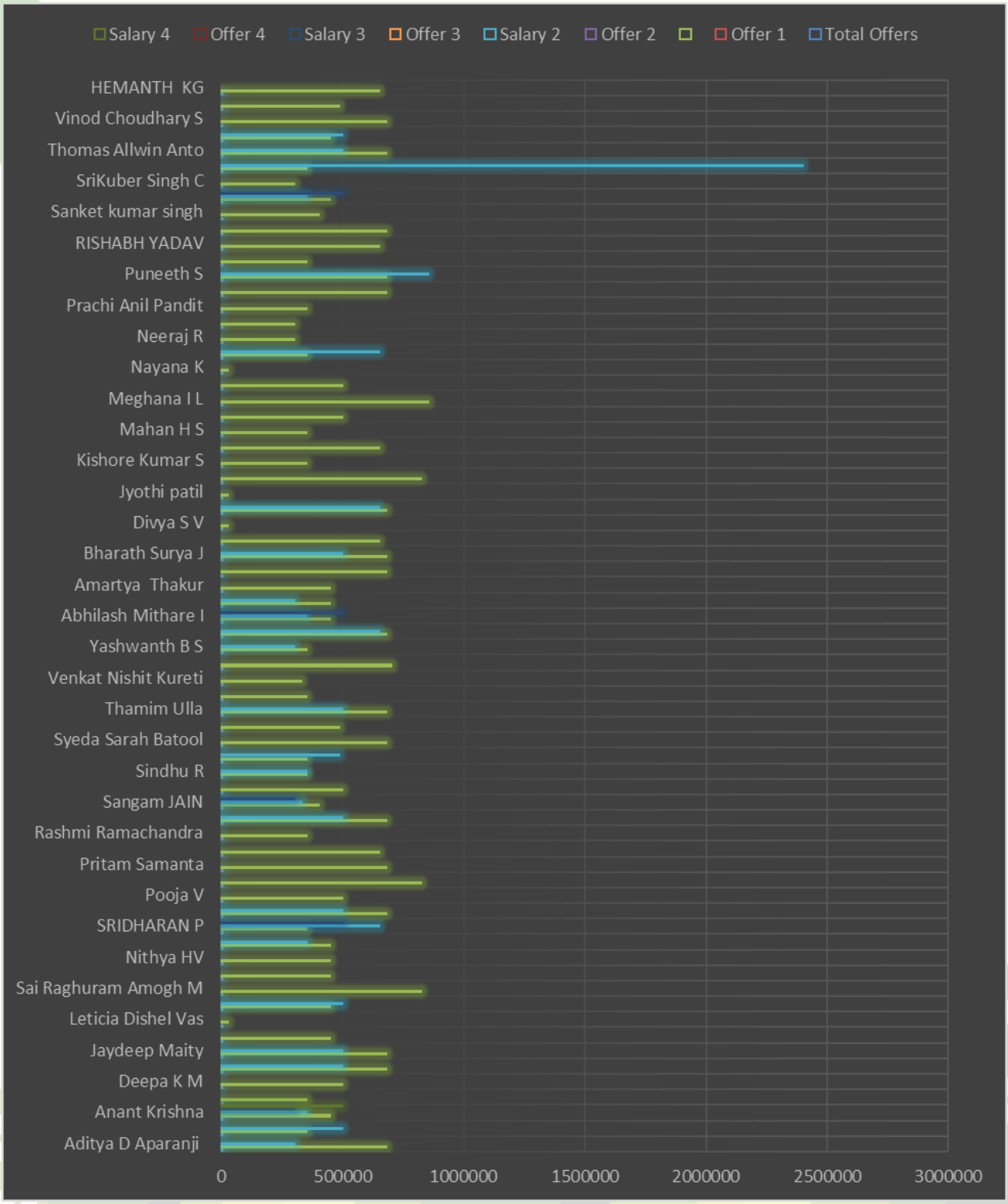
PATENTS FILED AND PUBLISHED

Title of Patent	Faculty Members	Year of Application	Academic Year	Status
Non-Isolated Bi-directional converters with Coupled Inductor (NBDCCI) for Hybrid Electric Vehicle (HEV)	Krishnamurthy Vinoth Kumar	EEE 2020	**2020-21**	**Published**
An Efficient Air Conditioner with Self Sanitizing Techniques	Krishnamurthy Vinoth Kumar	EEE 2020	**2020-21**	**Published**
Detection of Rotor Faults on Asynchronous Motor Using Motor Current Signature Analysis and Instantaneous Power Analysis Method.	Krishnamurthy Vinoth Kumar Dr. B. Gunapriya	EEE 2020	**2020-21**	**Published**
An Improved Brain Emotional Learning-Based Intelligent Controller (BELBIC) Controller for PMBLDC Motor Drives using Emotional Learning Techniques	Dr. B. Gunapriya	EEE 2020	**2020-21**	**Published**
Solar Powered Electric Tricycle for Physically Challenged Persons	Dr. B. Gunapriya	EEE 2020	**2020-21**	**Published**

PLACEMENTS

Registration Number	Name	Total Offers	Offer 1	Offer 2	Offer 3	Offer 4
1NH17EE001	Aditya D Aparanji	2	Capgemini	TCS	-	-
1NH17EE002	Anagha v	2	Tudip Technologies Pvt Ltd	VERZEO Edutech	-	-
1NH17EE003	Anant Krishna	4	Cognizant	INFOSYS	TCS	BOSCH
1NH17EE006	Ankur Yadav	1	NTT Data Services	-	-	-
1NH17EE011	Deepa K M	1	BOSCH	-	-	-
1NH17EE013	Dushyanth Kumar U	2	Capgemini	BOSCH	-	-
1NH17EE022	Jaydeep Maity	2	Capgemini	BOSCH	-	-
1NH17EE027	SAI HEMANTH REDDY K	1	Cognizant	-	-	-
1NH17EE028	Leticia Dishel Vas	1	CBRE	-	-	-
1NH17EE029	Lohith V	2	Cognizant	BOSCH	-	-
1NH17EE030	Sai Raghuram Amogh M	1	LOWE''S India	-	-	-
1NH17EE031	Manasa G	1	Cognizant	-	-	-
1NH17EE035	Nithya HV	1	Cognizant	-	-	-
1NH17EE036	Nithya V	2	Cognizant	INFOSYS	-	-
1NH17EE037	SRIDHARAN P	3	INFOSYS	Accenture	BOSCH	-
1NH17EE038	Pooja kumar Kage	2	Capgemini	BOSCH	-	-
1NH17EE039	Pooja V	1	IQVIA	-	-	-
1NH17EE041	Preksha Deshmukh	1	LOWE''S India	-	-	-
1NH17EE042	Pritam Samanta	1	Capgemini	-	-	-
1NH17EE043	RACHANA v	1	Accenture	-	-	-
1NH17EE045	Rashmi Ramachandra	1	INFOSYS	-	-	-
1NH17EE046	Richard Christopher c	2	Capgemini	BOSCH	-	-
1NH17EE050	Sangam JAIN	3	L&T Technology Services	Mindtree	TCS	-
1NH17EE051	SANJAY N S	1	IQVIA	-	-	-
1NH17EE053	Sindhu R	2	Tudip Technologies Pvt Ltd	NTT Data Services	-	-
1NH17EE054	Sohan A Jingade	2	INFOSYS	Ernst & Young	-	-
1NH17EE055	Syeda Sarah Batool	1	Capgemini	-	-	-
1NH17EE056	Tabassum .	1	Ernst & Young	-	-	-
1NH17EE058	Thamim Ulla	2	Capgemini	BOSCH	-	-
1NH17EE059	Vanishree paramashetti	1	Tudip Technologies Pvt Ltd	-	-	-
1NH17EE060	Venkat Nishit Kureti	1	Mindtree	-	-	-
1NH17EE063	Vybhav A	1	Eurofins IT Solutions India Pvt Ltd	-	-	-
1NH17EE064	Yashwanth B S	2	INFOSYS	TCS	-	-
1NH17EE065	UTKARSH BHARDWAJ	2	Capgemini	Accenture	-	-
1NH17EE701	Abhilash Mithare I	3	Cognizant	INFOSYS	BOSCH	-
1NH17EE702	Aby Mathew	2	Cognizant	TCS	-	-
1NH17EE703	Amartya Thakur	1	Cognizant	-	-	-
1NH17EE704	Anshuman Biswal	1	Capgemini	-	-	-
1NH17EE706	Bharath Surya J	2	Capgemini	BOSCH	-	-
1NH17EE710	Chittipareddy Gowtham Ch	1	Accenture	-	-	-
1NH17EE713	Divya S V	1	CBRE	-	-	-
1NH17EE715	Himagani Mishra	2	Capgemini	Accenture	-	-
1NH17EE716	Jyothi patil	1	CBRE	-	-	-
1NH17EE718	Kavita Sah	1	LOWE''S India	-	-	-
1NH17EE719	Kishore Kumar S	1	Tudip Technologies Pvt Ltd	-	-	-
1NH17EE720	Madhu M	1	Accenture	-	-	-
1NH17EE721	Mahan H S	1	Tudip Technologies Pvt Ltd	-	-	-
1NH17EE723	MANOJKUMMAR BIRADAR	1	IQVIA	-	-	-
1NH17EE724	Meghana I L	1	Automation Anywhere	-	-	-
1NH17EE726	Nutaki Pruthveesh	1	IQVIA	-	-	-
1NH17EE727	Nayana K	1	CBRE	-	-	-
1NH17EE728	Neeraj Patil	2	Tudip Technologies Pvt Ltd	Accenture	-	-
1NH17EE729	Neeraj R	1	TCS	-	-	-
1NH17EE731	OGGU GOPI KRISHNA	1	TCS	-	-	-
1NH17EE732	Prachi Anil Pandit	1	NTT Data Services	-	-	-
1NH17EE733	PRAGATHI PRAKASH	1	Capgemini	-	-	-
1NH17EE736	Puneeth S	2	Capgemini	Automation Anywhere	-	-
1NH17EE740	Ramya Manur	1	Tudip Technologies Pvt Ltd	-	-	-
1NH17EE742	RISHABH YADAV	1	ESKO	-	-	-
1NH17EE745	Raksha S	1	Capgemini	-	-	-
1NH17EE747	Sanket kumar singh	1	Cognizant	-	-	-
1NH17EE748	Shaun Philipose John Alenc	3	Cognizant	INFOSYS	BOSCH	-
1NH17EE750	SriKuber Singh C	1	Simply Vyapar App Pvt Ltd	-	-	-
1NH17EE753	Sumit Bhawal	2	Tudip Technologies Pvt Ltd	CREATORS MATCH Ltd.	-	-
1NH17EE754	Thomas Allwin Anto	2	Capgemini	BOSCH	-	-
1NH17EE756	VINITH G A	2	Cognizant	BOSCH	-	-

PLACEMENTS


Salary 4
Offer 4
Salary 3
Offer 3
Salary 2
Offer 2
Offer 1
Total Offers
HEMANTH KG
Vinod Choudhary S
Thomas Allwin Anto
SriKuber Singh C
Sanket kumar singh
RISHABH YADAV
Puneeth S
Prachi Anil Pandit
Neeraj R
Nayana K
Meghana I L
Mahan H S
Kishore Kumar S
Jyothi patil
Divya S V
Bharath Surya J
Amartya Thakur
Abhilash Mithare I
Yashwanth B S
Venkat Nishit Kureti
Thamim Ulla
Syeda Sarah Batool
Sindhu R
Sangam JAIN
Rashmi Ramachandra
Pritam Samanta
Pooja V
SRIDHARAN P
Nithya HV
Sai Raghuram Amogh M
Leticia Dishel Vas
Jaydeep Maity
Deepa K M
Anant Krishna
Aditya D Aparanji
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CAREER OPTIONS

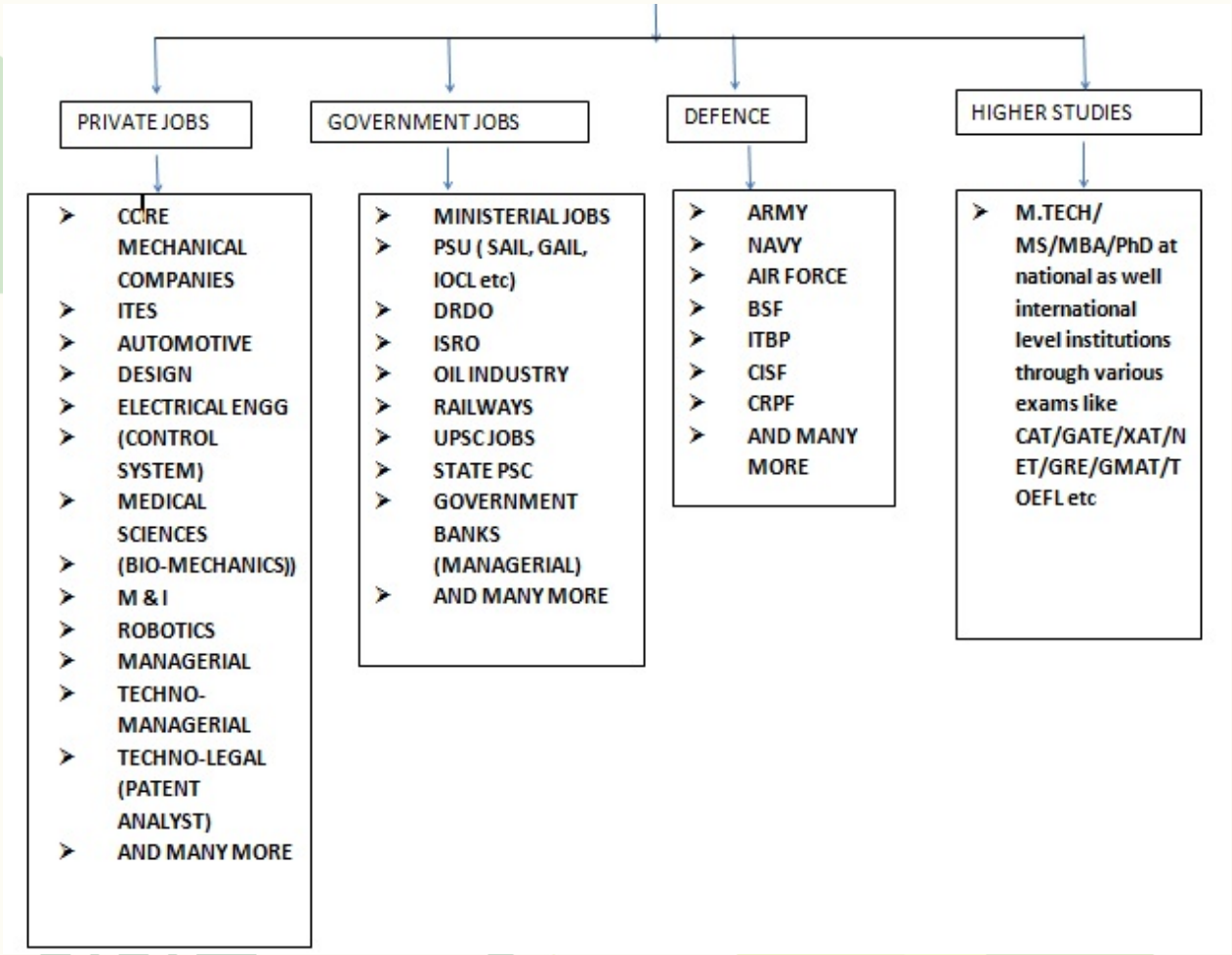
INDUSTRY SPONSORED LABS

- CISCO Lab
- Capgemini Industry 4.0 Lab
- VMWare Lab
- SAP Lab
- HP Vertica Lab
- Schneider Electric Lab
- IBM OpenPower Lab
- Robotic Process Automation
- Capgemini PLM Lab
- Oracle Academy Lab
- Capgemini VLSI Lab
- Altair AI, ML and Data Analytics Lab
- 5G
- Amazon Web Services Academy

INTERNATIONAL COLLABORATIONS

INDUSTRY COLLABORATIONS

PLACEMENT OPPORTUNITIES AFTER B.TECH



ALUMNI FEEDBACK

Renjini Mohan: Very good department in all aspects such as academics and co-curricular activities. Gained lot of knowledge during industrial visits which helped me in getting placed in a core company. Overall experience in the institution was excellent.

Gayathri: Had an amazing time in the department with wonderful faculty. Received guidance in establishing a good foundation in electrical and electronics concepts. Also received help in getting a job in a good company like TCS.

Sri Lakshmi: I'm proud to get graduated from a prestigious college like New Horizon College of Engineering and really glad to be part of electrical department, one such supporting department which helped to shape my future.

PARENTS FEEDBACK

Ms. Jyothi: New Horizon College seems to have a vital supporting environment for students. Teachers are so good out there that they support students with academic interests. Placements have also been started and the college also provides placement training for students. The infrastructure is also found attractive with quality classrooms. The college provides quality education for the students which intend to shape their career well. Proud to be a part of NHCE.

Mr. Dinesh S Bhatkal: We are quite satisfied with NHCE. We are relieved and happy that we took the right decision for our son to be part of NHCE. We are definitely seeing our son mould into a good, responsible, and fun-loving boy along with his good academic performance. NHCE also opens doors to a lot of exciting opportunities for students and that makes us very satisfied and happy. Apart from these the college has good infrastructure, great labs, supporting teachers and good canteens. The teachers are available anytime of the day for the students to contact and clarify the doubts. Overall, NHCE is a very good college.

AS ENGINEERS, WE WERE GOING TO BE IN A POSITION TO CHANGE THE WORLD-NOT JUST STUDY IT