NH Bytes

A MONTHLY PUBLICATION BY
NEW HORIZONITES

JULY 2021

Golden
JUBILEE

5O

YEARS OF EXCELLENCE IN EDUCATION

EXPERT LECTURE ON NUMPY AND PANDAS IN PYTHON

The Department of Computer Science and Engineering organized an expert lecture on NumPy and Pandas in Python for the 6th semester CSE students. The resource person was Mr. Vivekananda, Software Engineer, Wells FARGO. This expert lecture focused on NumPy and Pandas in Python. The Pandas module mainly works with the tabular data, whereas the NumPy module works with the numerical data. The Pandas provides powerful tools like DataFrame and Series that are primarily used for analyzing the data, whereas in NumPy module offers a powerful object called Array. The resource person gave a hands-on session using PyCharm and explained the importance of NumPy and Pandas libraries. Around 95 students took part in this workshop and gained knowledge on Python.
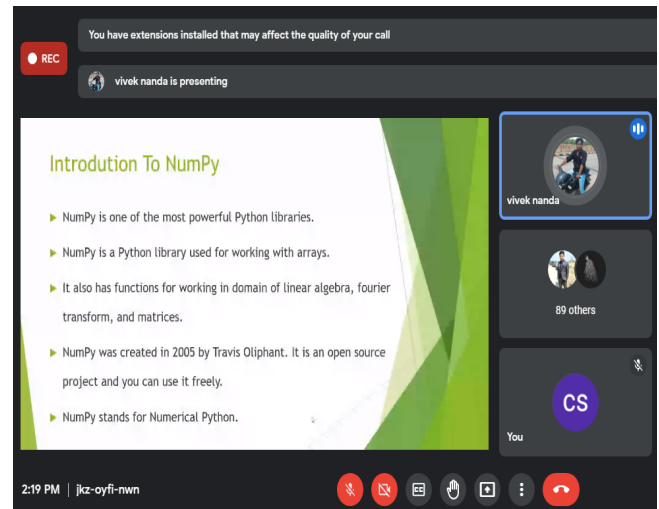
FDP ON "RESEARCH PERSPECTIVES ON DATA SCIENCE AND DEEP LEARNING"

The Department of Computer Science and Engineering organized Five-day National Level Virtual FDP on Research perspectives on Data Science and Deep Learning from 12th July to 16th July 2021. Data Science is a multidisciplinary approach to extracting actionable insights from the large and ever-increasing volumes of data. The chief guest of the FDP was Mr Pawan Kumar, Head, Data Science & Analytics R&D, Uber, Bangalore. The entire FDP will focus on important aspects of Data Science and Deep learning and resource persons are high profile industry experts and academicians from leading institutions. All the resources persons were from esteemed institutions and industries and delivered very effective knowledge transfer. Around 300 participants across the country took part and benefitted from the FDP.
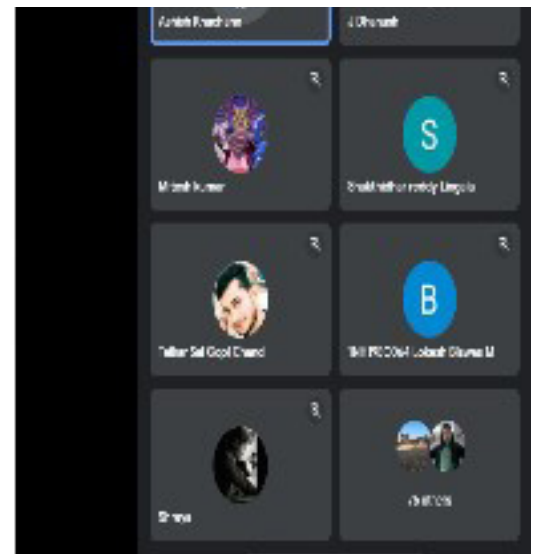
TECHORIZON 2021

TECHORIZON 2021 is a technical project exhibition for eighth-semester students organized by NHCE sponsored by UNIABROAD, a one-stop solution for overseas education. Twenty-seven teams have participated in the 1st round of this exhibition from the Department of Computer Science Engineering, and the experts selected 15 teams for the 2nd round. CSE dept hosted the 2nd round on 22nd July 2021 for Techorizon to choose the best two projects. Dr. Anitha, Professor, and Head, CSE Dept., RV Institute of Technology and Management, JP Nagar, Bangalore, was the External jury for the Techorizon exhibition. The experts examined and evaluated the projects based on selection criteria. The 1st position was grabbed by the project titled "EYE CONTROL OF DEVICES FOR PARALYSED AND SEMI PARALYSED," Team members: Shruthi M, Sushmitha, S Selva Lavanya. The winner of the 2nd position was Ms. Lakshmi and Ms. Aishwarya Kadali, project titled "HEABOT- AI CHATBOT FOR PERSONAL EMOTIONAL AND MEDICAL ASSISTANCE."

ONLINE GUEST LECTURE ON
FPGA ARCHITECTURES

The Department of Electronics and Communication Engineering conducted an online Guest lecture on "FPGA ARCHITECTURES on 10th July 2021. The speaker was Mr. Ashish Khachane, Assistant Manager, Field Application at Xilinx Productline Excelpoint Systems India Pvt Ltd. He gave a detailed explanation on different architectures of FPGA and the recent advancements made in the field of FPGA. About 150 students attended the session.

ONLINE GUEST LECTURE ON
INTRODUCTION TO ANDROID APP DEVELOPMENT

The Department of Electronics and Communication Engineering conducted an online Guest lecture on "Introduction to Android App Development" on 12th June 2021. The speaker was Ms. Priyanka .B. Gaikwad, software developer at Welldoc, India. She explained the basics of developing an Android-based application. She also gave a live demo of a raw app which was in development phase and explained the procedure. About 50 students attended the guest lecture.

TWO DAYS ONLINE WORKSHOP ON "PCB DESIGN"

A Two-day online workshop on PCB Design in association with IETE was conducted on 20th & 21st July, 2021. The Session was delivered by Mr. Kotresh M Director, Indian Tech-Keys, Bangalore. During the session, the speaker covered the basics of Printed Circuit Board and a vivid description of the various PCB technologies involved in it. Around 100 Fourth Semester students participated in the online workshop. Thereafter, five 4th Semester students also took the hands on session.
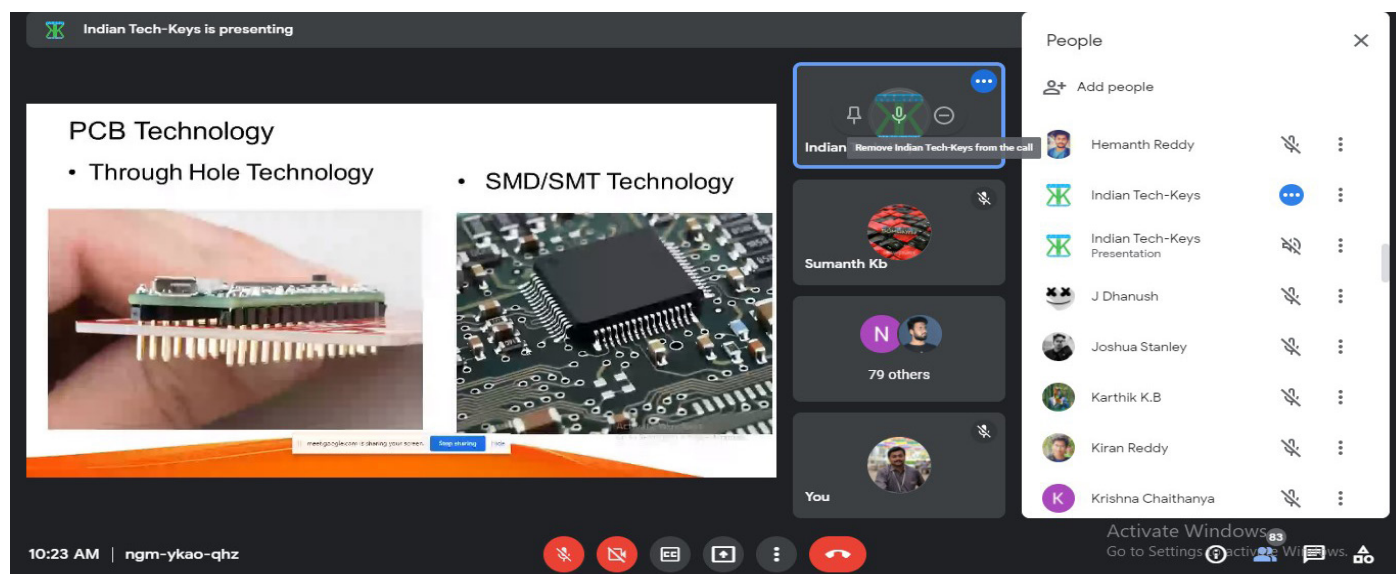
INDUSTRIAL TRAINING PROGRAM FOR FACULTY ON ASIC DESIGN FLOW USING MENTOR GRAPHICS

An industrial training program for Faculty on ASIC Design Flow using Mentor Graphics in association with CoreEL Technologies was conducted on 26th July, 2021. The session was delivered by Mr. Ankur Sangal, Senior Application Engineer, CoreEL Technologies, Bangalore and supported by Bhanu Prakash Dixith B N, Associate Manager, University Relations, CoreEL Technologies, Bangalore. During the session, the speaker covered the session on Full-custom and Semi-Custom Design. Faculty from Department of ECE have participated in this training program. Thereafter, VLSI software demonstration was delivered as a hands-on session.

GUEST TALK ON AGILE METHODOLOGY

The Department of Information Science and Engineering conducted an Expert talk on the topic "Agile Methodology" for the 4th semester students on the 24th of July 2021 under the supervision of Mrs. Mounica B in the online mode. An expert speaker, Mrs. Harsha Menda was invited to conduct the same.

The Speaker is an alumnus from the 2013- 2017 batch. She is currently a full stack application developer with 3+ years of experience in the complete product development life cycle of successfully launched applications, includes Analysis, Design, Implementation, Development, Integration, Deployment and Maintenance of Enterprise and web-based applications. Worked on design and status reporting for different applications. Excellent analytical and communication skills in order to work with mid-sized teams, technical and business leadership.


Agile Planning

- Beginning of iteration
- Review vision and roadmap
- Review development status, architecture and previous iterations
- Determine velocity
- Review team availability & capacity
- Review definition of done
- **Review product backlog & select items for iteration / sprint**
- **Identify tasks & estimates**
- **Identify challenges & risks**
- Review capacity required

- **COMMIT** (planning not over until entire team commits to sprint plan)

ADVISE FOR OVERCOMING STAGE FRIGHT – PART OF A THE TEST PAPER QUESTION

The professional communication course internal assessment questions were practical. The students who wrote thoughtful answers for overcoming stage fear was converted to a dialogue form and converted to an audio video cartoon using the plotagon app

The test question was on how they would advise their friend or sibling in overcoming stage fear and be a confident presenter.

Sl	Name	Sec	Activity
1	Kishore	Q	Conversion of dialogues to cartoons on plotagon
2	Shashank	Q	Editing assistance to Kishore
3	Shreya R	Q	Dialogues – Advise to a friend on overcoming stage fright
4	Ruheen	Q	Dialogues – Advise to her brother on presentation skills
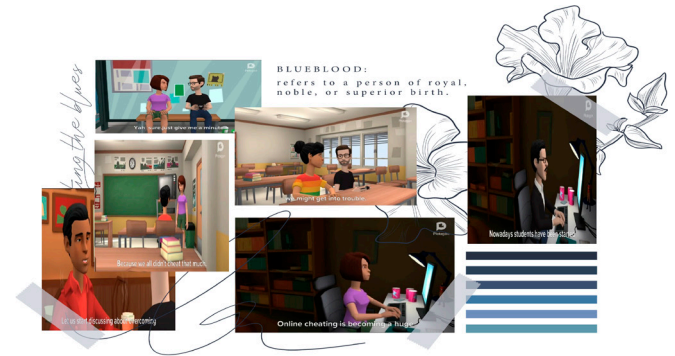
CONVERSATIONS OF STUDENTS WHO WERE CONFRONTED FOR REFERRING DURING A CLOSED BOOK TEST – CIE – 2

A few students were confronted for cheating on the online test and asked to write dialogues of how they would avoid the temptation. They wrote the dialogues based on being caught and how they planned to overcome this issue.

Sl	Name	Sec	Activity
1	Kishore	Q	Conversion of dialogues to cartoons on plotagon
2	Shashank	Q	Editing assistance to Kishore
3	Sneha Paul	N	Dialogues on how to overcome temptation to refer.
4	Arnav Pandey	N	Dialogues on how to overcome temptation to refer.
5	Jaffer	Q	Dialogues on how to overcome temptation to refer.

INDUSTRY SECTORAL ANALYSIS – CONTEMPORARY PRACTICES AND OPPORTUNITIES IN BUSINESS ANALYTICS

Department of Management Studies organized an industry sectoral analysis – contemporary practices and opportunities in business analytics on 06.07.2021 for II sem students. The speaker for the session was Mr. Agrim Gairola, Distribution insights and Analytics Lead, Prudential assurance, Singapore. The speaker highlighted those analytics areas

that has become an opportunity, target towards the future boss and one cannot create a perfect data without the help of technology. Speaker concluded the session by saying that writing course on analytics in your resume can even capture a hiring manager's interest and help them finding a dream job that requires determination to reach goals and achieve great things.

OPPORTUNITIES AND CAREER PROSPECTS IN HR

The Department of Management Studies organized an industry expert lecture series on opportunities and career prospects in HR for 2nd &4th semester MBA students. The speaker for the day was Varughese Thomas. The session gave an in-depth understanding of how the market has job opportunities even in the field of HR. The speaker started with explaining market and their benefits and disadvantages.

He focused on how HR can bring tremendous change in the society by incorporating certain technologies like automation , applicant tracking system etc...

He further advised students to take some extra free online certifications also to enhance KSA.

COVID VACCINATION JAGRUTHI ABHIYAN – 2021

Students and the residents of villages mentioned below were trained on topics like, taking Precautions that can be taken to stand against the virus.
  • Process to register for online COVID vaccination.
  • Information on accessing the website.
  • Ways to take care of mental and physical health.
The information was shared on COVID-19 and its impact on India,
  • Methods to tackle the virus.
  • Types of vaccinations available in India.Mental and Physical health care tips.
This successful event hosted for about 100 participants where 65 attendees were from New Horizon College and 35 from the following villages as follows

Rampura | Anagalapura | Doddagubbi | Nimbekaipura | Cheemasandra
Subsequently, a vaccination drive was also conducted at New Horizon College Campus for the village people.

BATTLE OF MINDS

The Department of Management Studies under acumen club , organized battle of minds wherein the entire competition was divided into 3 rounds – Round 1- agree to disagree, where students had a discussion in an group based on the topic provided by the judge . Round 2- was conflict confronts-how to solve problems in business and organization , round -3 was duel of perspective – individual one to one interaction. Students got an opportunity to learn and face the business strategies in real life.

OPPORTUNITIES AND CAREER PROSPECTS IN MARKETING

The Department of Management Studies organized an industry expert lecture series on opportunities and career prospects in marketing for the 2nd & 4th sem MBA students. The speaker for the day was Satyendra Kumar, Sales support representative at caterpillar. The session gave an in-depth understanding of how the market has job opportunities even in the field of marketing. The Speaker started with explaining market and their benefits and disadvantages.

He focused on how marketing can bring change in society by using marketing analytics. The future is very broad in field of job analytics, He further advised students to take some extra marketing free online certifications also to enhance KSA.

CODEATHON' 21
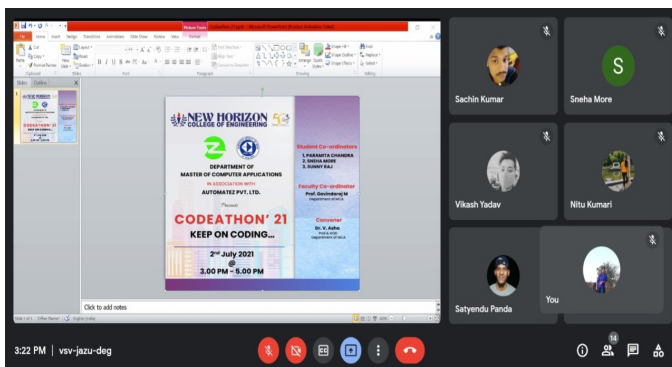
"Codeathon 21", a coding contest which was conducted in the Department of MCA. This gave an opportunity to conduct different levels and rounds that dealt with technology-based questions. The entire event was precisely divided into two main rounds. Each round was planned with a purpose of letting everyone be aware of the importance of having a strong foundation in technical skills, which is mainly targeted when it comes to the industry, also with a perspective of testing each participant's knowledge about existing software and technical skills.

This program stood as our successful event of this year solely conducted from Department of MCA, NHCE.

Every event needs a complete support of the department and as always, we made sure about the involvement of student coordinators and participants. Participants went through the following rounds as part of the event. We would like to thank Dr. V Asha, HOD Dept. of MCA, NHCE, faculties, student coordinators and all the participants for conduction of this successful event.

PARENTS-TEACHERS MEETING

SALIENT FEATURES AND OUTCOMES of PTM:
45 parents attended this meeting. A good interaction between Parents, Class Teachers, Subject Teachers and Mentors was done. There was a discussion on student's performance in individual subjects, students discipline in classrooms and their attendance percentage.
Some parents also enquired about when the SEE exams will be conducted due to the impact of COVID-19. The faculty coordinator of the respective subjects shared the CIE marks obtained by their wards to the parents. The parents also appreciated the efforts taken by the department during this COVID-19 pandemic.

AN EXPERT TALK ON "AN INSIGHT INTO CYBERCRIMES"

An expert talk on "An Insight into Cybercrimes" was conducted in the MCA Dept. The speaker of the session, Mr. Vedanth started with the introduction to cybercrimes. He has shown the examples of different types of cybercrimes such as cyber stalking, phishing, internet time theft, data diddling, DoS attack, salami attack, etc.
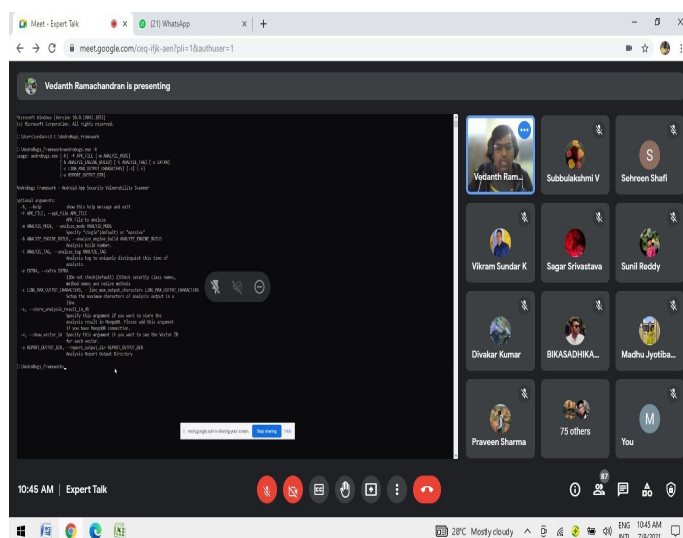He demonstrated the classification of cybercrimes with the real-time scenarios and also discussed the cyber-attacks that occur on networks predominantly. He highlighted the importance of passive and active attack in foot printing and overview on social engineering with its types such as Human based and Computer-based social engineering.
He gave an overview of cloud services such as SaaS, IaaS and PaaS and their usage with real life examples. He had shown a demo on networking loop and vulnerability tool for extracting the information from network. He mentioned that this tool can be used to identify loop hole to carry out an attack. He discussed about the measures like Information Technology Act (ITA) to secure cloud data.
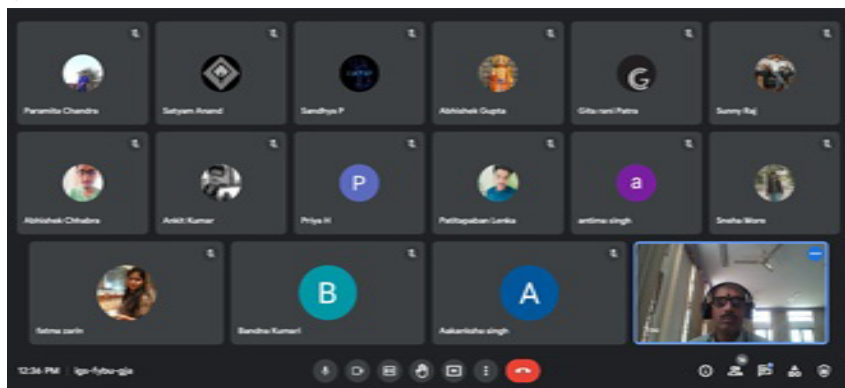

At the end of the session, he mentioned about the career opportunities in cyber security such as Quality Engineer, Cyber Security Analyst, IT Specialist to build solutions to secure an organization.The students interacted with the speaker to understand the requirements to become a cyber-security analyst.

PARENTS-TEACHERS MEETING

The meeting was attended by 32 parents. There was a wonderful interaction between Parents, Class Teachers, Subject Teachers and Mentors. There was a discussion on student's performance in individual subjects, students discipline in classrooms and their attendance percentage also.

Some parents also enquired about when the SEE exams will be conducted due to the impact of COVID-19. The faculty coordinator of the respective subjects shared the CIE marks obtained by their wards to the parents. Parents also appreciated the efforts taken by the department during this COVID-19 pandemic.

Some parents asked to share the SEE exam calendar once it is received by the department. Dr. K.G. Madhwaraj, Professor, MCA Dept said that moment they receive some communication from the COE, it will be shared with the parents and students.

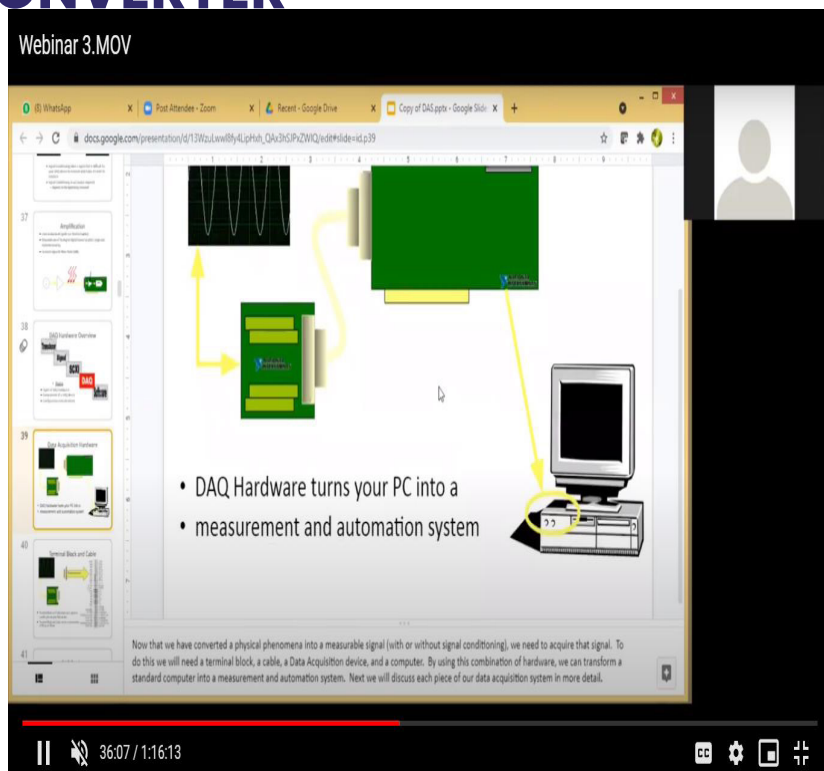## FIFTH IEEE NATIONAL LEVEL PROJECT COMPETITION-2021

GSSS Institute of Engineering and Technology for Women, Mysuru IEEE Student Branch in association with IEEE Bangalore Section and IEEE Mysore Sub Section Co-Sponsored by IEEE Circuits & Systems Society Bangalore Chapter organized the "Fifth IEEE National Level Project Competition-2021 (Virtual)" on 26th June 2021. Our final year EEE students Yashwanth Gowda S , Bhanu Prakash Naidu S, Sadashiv N Mantur and Shri Harsha S participated and won the best project award.

WEBINAR ON "REAL TIME IMPLEMENTATION OF SWITCH MODE DC CONVERTER"

The Department of Electrical and Electronics Engineering, New Horizon College of Engineering, Bengaluru organized a Webinar on "Real Time Implementation of Switch Mode DC Converter" on 30th June 2021, Wednesday from 05.00 PM to 06.30 PM in association with IEEE PELS Student Branch Chapter of NHCE.

The objective of this programme was to bring the researchers and academic experts from reputed institutes of our country to a collective gathering for exchanging and sharing the knowledge about the recent developments and research challenges in Switch Mode DC Converter. The entire session was handled by a resource person Dr. R. Saravanakumar, Professor, Department of Control and Automation, School of Electrical Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu, India. He delivered a speech on a Real Time Implementation of Switch Mode DC Converter with a wide range of industrial applications. The entire session was very informative. 163 participants attended this activity. Congratulations to the Event Coordina-


tor Dr. Vinoth Kumar K, Associate Professor, Department of EEE, NHCE & IEEE PELS NHCE SBC Advisor successfully completing this event.

TECHNICAL EVENT ON "PRAUDYOGEEK"

IEEE PELS NHCE Student Branch Chapter of Electrical & Electronics Engineering Department, NHCE organized the Students Technical Event on "PRAUDYOGEEK" from 9th – 10th July 2021 for the benefit of B.E/B.Tech Students of NHCE and other External Institutions. The whole aim behind the event was to familiarize the participants with the basic principles and the concepts of circuit building and simulation. This event benefitted 139 participants in having a better understanding of logic building in electric circuits. Congratulations to Event Coordinator Dr. Vinoth Kumar K, Associate Professor, Department of EEE, NHCE & IEEE PELS NHCE SBC Advisor for having successfully organized this event.
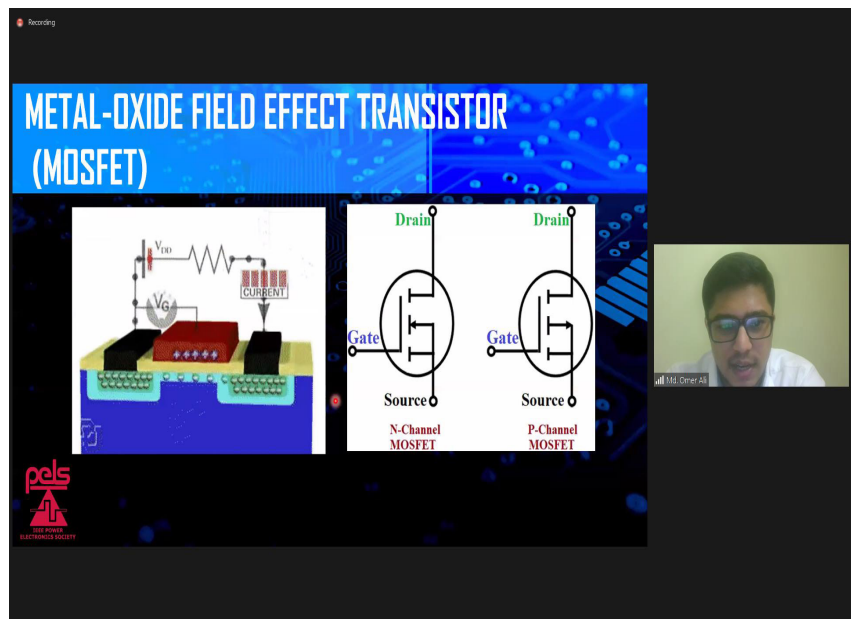
"GREEN FEST 2.0"

"GREEN FEST 2.O" was conducted by the Green Energy Club of Electrical and Electronics Engineering Department, NHCE on 11th and 12th of July,2021 to bring out the best participants, to acquire knowledge on various topics and enhance the participants thinking skills, creative skills and their knowledge on various topics like Environment, Technical, Riddles, Entertainment & General Knowledge. The event was inaugurated by the HOD of the EEE Department, Dr. M Mahesh in the presence of the faculty coordinator of Green Energy Club, Mr. Vinod Kumar S and all the participants.

All participated in PHOTOGRAPHY, RAPID FIRE, CIRCUIT DEBUG, T-SHIRT DESIGN, TRIVIA.

WINNERS OF "PHOTOGRAPHY"

1. Revanth Gowda A 1NH18CV147
2. Prashanth M N 1NH18CV134
3. Shivani Sampath 1NH18CS745
WINNERS OF "RAPID FIRE"
1. Vaibhav Sharma141
2. Akangsha das 1NH20CS019
3. ShivaniSampath 1NH18CS745
WINNERS OF "CIRCUIT DEBUG"
1. Vishwas 1NH19EC757
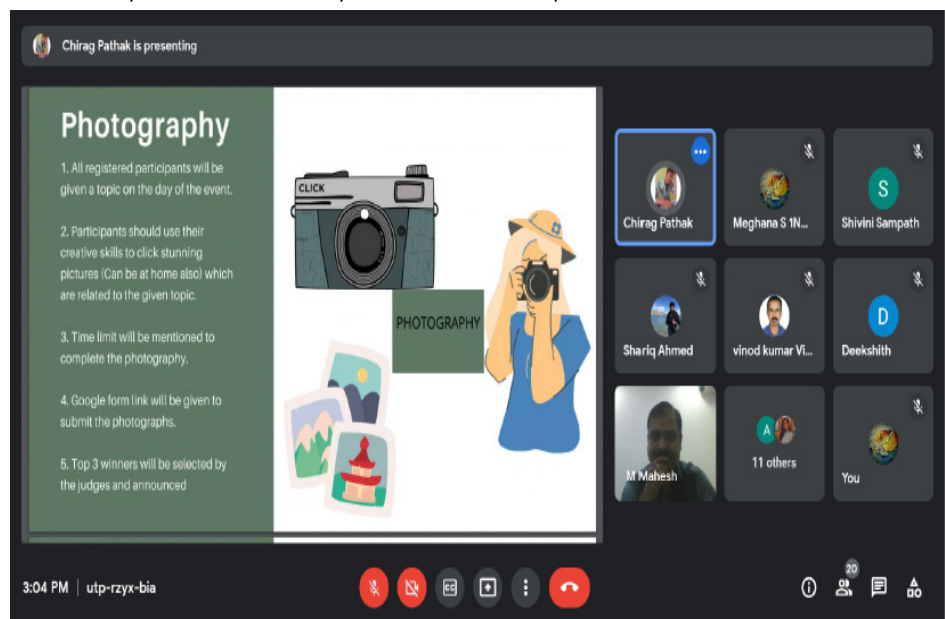2. Vaibhav Sharma141

3. Hemanth G N 1NH19EE037
WINNERS OF "T-SHIRT DESIGN"
1. Vishwas 1NHEC757
WINNERS OF "TRIVIA"
1. Akangsha Das - 1NH20CS019
2. Vaibhav Sharma - I 41

The event was successfully completed with the vote thanks by the Event coordinator - Chirag Pathak. All the winners and participants were provided with the E-certificates.

INDUSTRIAL AUTOMATION & INDUSTRY 4.0

Dr. R. Mohandas and Vinod kumar S from Department of Electrical & Electronics Engineering, NHCE have acted as a resource person for a webinar organized by DMI COLLEGE OF ENGINEERING, Chennai. They delivered a talk on "Industrial Automation & Industry 4.0".
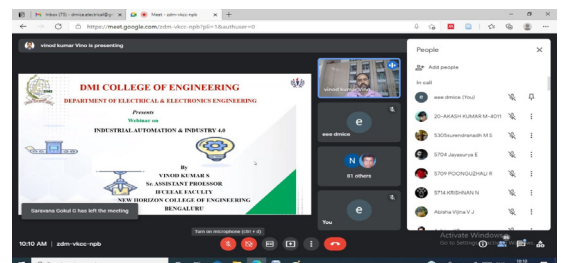
"GUEST LECTURE" ON EVOLVING TECHNOLOGIES & PROGRESSIVE MARKETS IN POWER SYSTEMS

This lecture was focused on Electric Vehicle technologies and smart industries as the expert Mr.Prasad S Ranga, was from QTT, for Services on Technical Training, Skill Development & Student Innovation & Product development Modules, India. With rapidly changing technological scenario in the ever-increasing global digitalization & connectivity and competitiveness in modern times, the role of technical education in economic development has become challenging. The need for well-qualified engineers & professionals is more critical with complex problems & global challenges. Further, making the educational curricula and training more conducive to the technological developments are becoming a top priority.

Increasing creativity and innovation are the hallmark of development of the

institution, society and nation. The students should be able to increase own attitude towards creativity and innovation and apply them in research and development initiatives. Participated students were from 4th semester EEE who shared their positive feedback with the expert. Congratulations to Coordinator Mrs. Rashmi N, Assistant Professor, Department of EEE, NHCE for successfully coordinating this event.

GUEST LECTURE ON "SIMULATION MODEL FOR PREDICTION OF OPTIMUM FUEL ECONOMY"
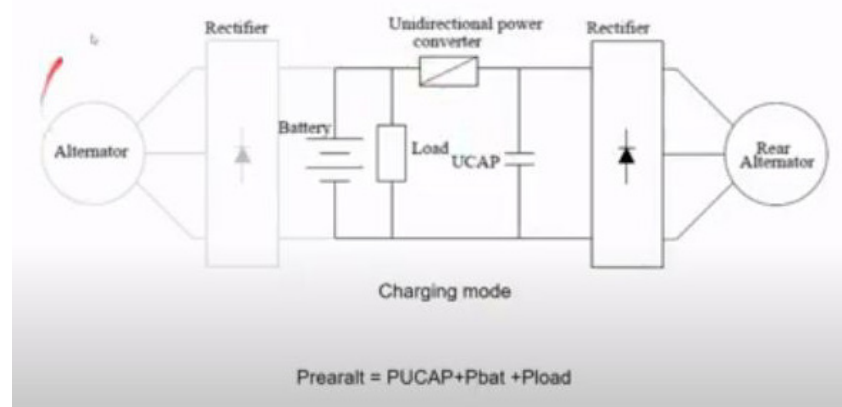
The Department of Electrical and Electronics Engineering, New Horizon College of Engineering Organized an online Guest lecture on 'Simulation Model for prediction of optimum fuel economy' in association with IEEE PELS Student Branch chapter. The resource person was Mr. V. Mariappan, Deputy Manager, Valeo India Pvt Ltd, Chennai. The participated students shared their positive feedback with the expert. Congratulations to the coordinators Mr. Satish Kumar. D & Ms. Anitha A from EEE Department, New Horizon College of Engineering, Bengaluru.

GUEST LECTURE ON "MODERN TRENDS IN POWER SYSTEM PROTECTION"

The Department of Electrical and Electronics Engineering, New Horizon College of Engineering, Bengaluru organized the guest lecture on "Modern Trends in Power System Protection". The objective of the programme was to make the students understand the modern trends in power system protection, different testing of equipment, the conceptual as well as electrical domain and latest technologies used in the protection. The session was handled by Mr. Balakrishna, Technical Manager, ECIL.

Students acquired good knowledge about protection. Congratulations to the coordinator Ms. Kavita Ch from EEE Department, New Horizon College of Engineering, Bengaluru.

ATAL-AICTE FACULTY DEVELOPMENT PROGRAM

The rise of digital industry technology, known as industry 4.0 has transformed the machines and IT systems that are connected in the Value Chain. The objective of the Faculty Development Programme (FDP) was to provide Industry 4.0 Concepts which revolutionizes the boundaries between virtual reality and real world. The program was organized by Dr. R. Mohandas , Mr. Vinod Kumar.S , and Mr. Mohan B.S EEE Department, New Horizon College of Engineering, Bengaluru.

PUBLISHER & EDITORIAL TEAM