

MINCHU

Newsletter

Department of Electrical &
Electronics Engineering



Volume 3

Issue 4

June - 2021

Vision and Mission of the Institute

Vision

- To be one of the premier Institutes of Engineering and Management Education in the country

Mission

- To provide Engineering and Management education that meets the needs of human resources in the country
- To develop leadership qualities, team spirit and concern for environment in students

Objectives

- To provide Engineering and Management education that meets the needs of human resources in the country.
- To develop leadership qualities, team spirit and concern for environment in students.

Vision and Mission of the Department

Vision

- To be a premier department for education in Electrical and Electronics Engineering in the state of Karnataka, moulding students into professional Engineers

Mission

- To provide teaching/ learning facilities in Electrical and Electronics engineering better than prescribed by University for easy adaptation to industry and higher learning
- To provide environment for self-learning to meet the challenges of changing technology and inculcate team spirit and leadership qualities to succeed in professional career
- To empathize with the societal needs and environmental concerns in Electrical Engineering practices

Program Educational Objectives (PEOs):

After 2 to 3 years of graduation, the student will have the ability to:

- Analyze, design and propose solutions in the field of Electrical and Electronics Engineering and adapt to changes in technology by self-learning.
- Work effectively as an individual or as an entrepreneur and exhibit leadership qualities in a team to meet the goals of the organization.
- Work with professionalism and concern for environment to meet the societal needs.
- Excel in professional career by achieving higher learning and contribute to technological innovations.



This edition of Minchu is dedicated to Prof. Rajeshwari Chatterjee, very popularly known as the "first woman engineer of Karnataka". She was a pioneer in Microwave engineering. She along with her husband, S K Chatterjee established Microwave Laboratory for experimental research in the Indian Institute of Science, Bengaluru. Dr. Rajeshwari received several awards and honours for her contributions in the field of spacecraft applications. These include the Lord Mountbatten prize for the best paper from the Institute of Electrical and Radio Engineering, (UK), the J.C Bose Memorial prize for the best research paper from the Institution of Engineers, and the Ramlal Wadhwa Award for the best research and teaching work from the Institute of Electronics and Telecommunication Engineers.

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B. N. M. Institute of Technology

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EDITOR'S DESK

Dear Readers,

MINCHU, the newsletter of the Department of Electrical and Electronics Engineering has come alive for its 3rd volume and 4th issue with the active support of the management, faculty and the editorial team.

This edition of the newsletter provided us a chance to reflect on what the department has achieved in the past six months. It has also given us the opportunity to present and share knowledge acquired either through the realm of education or otherwise.

Considering the increased influence of Information and Communication Technologies (ICT) in the Power Industry, we chose this area as the basis on which the articles are presented. The authors have taken great care to cover trending research aspects of High Power Transmission, Smart City and Internet of Things.

Oliver Wendell Holmes said "Many ideas grow better when transplanted into another mind than the one where they sprang up." Apropos, we would like to thank everyone who travelled, guided and supported us in this endeavour.

Wishing the readers, a very happy reading.

The Department of Electrical and Electronics Engineering, BNMIT with the grant-in-aid from AICTE under the MODROBS scheme has procured state-of-the-art equipment and established Centre of Excellence in High Voltage Testing. The commissioned equipment meets international standards and are traceable to National Accreditation Board for Testing and Calibration Laboratories certification. This facility is now open for testing, consultancy related activities and research collaborations.

ABOUT THE DEPARTMENT

Ever since its inception in the year 2002, the Electrical and Electronics Department of BNMIT has got a respectable name both in the state and the region. The Department of Electrical and Electronics Engineering offers an Undergraduate Program in Electrical and Electronics Engineering, M.Sc. (Engineering) by Research and Doctoral degree.

The faculty of Electrical and Electronics Engineering are highly acclaimed individuals with the skill set, covering wide areas of industrial and applied research. They ensure that the courses foster deeper learning and increased engagement amongst the students. Such commitment from our fraternity not only gives our graduates an edge in deciding which career path is right for them but also guarantees that by the time they graduate with a degree, they will have hands-on, real-world experience in Electrical and Electronics Engineering.

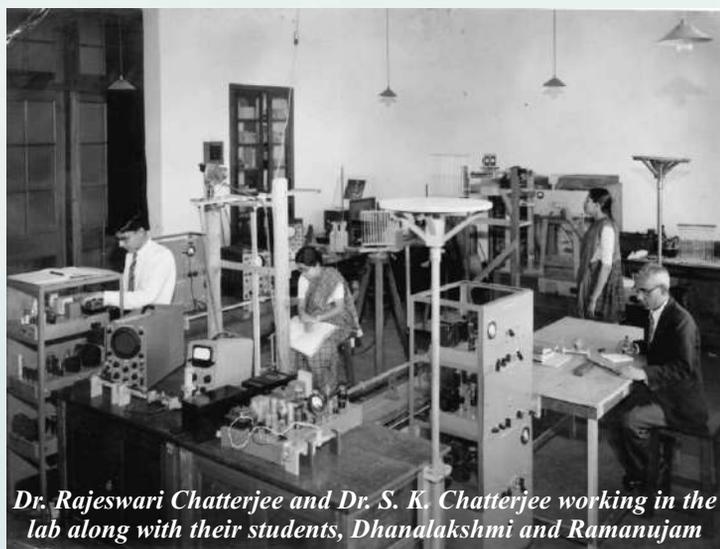
The students are highly motivated by the project funding provided by the New Gen IEDC from the Department of Science and Technology, Govt. of India. Industrial personnel are frequently invited by the department to train the students with the latest skillset. The Department of EEE has been accredited by the National Board of Accreditation (NBA) which is an additional feather on its crown.

DEDICATION ARTICLE

Professor Dr. Rajeswari Chatterjee lived a very fulfilled life as reflected in her own words "Lucky to be where I am" in her biography. Brilliant in studies, professionally accomplished, sharp in intellect and memory, courageous and forthright in expressing views coupled with a kind personality having a deep concern for societal issues such as caste discrimination and women's education, her life spanning Jan.1922 to Sept. 2010, stands tall to inspire, particularly young women scientists and engineers.

Dr. Rajeswari had her early education in a "Special English School" set up by her grandmother, Kamamma Dasappa, in the 'Mahila Seva Samaja' in Basavanagudi, Bangalore, one of the oldest pre-independence established institution for women's education which celebrated 100 years recently. She joined the Central College, Bangalore, in 1939 where she received her B.Sc (Hons) and M.Sc degrees in Mathematics and Physics, both with the first rank in Mysore University. She was awarded the Mummadi Krishnaraja Wodeyar Award for securing first rank in B.Sc (Hons), the M.T. Narayana Iyengar Prize and the Walters Memorial Prize for obtaining the first rank in M.Sc. After completing her M.Sc in 1943, she joined the Indian Institute of Science (IISc), Bangalore as a Research Student in the then Electrical Technology Department in the area of Communication.

During 1945-1947, there was an interim Government in Delhi to transfer power from the British to the Indians. This Government had announced scholarships to bright young Indians to pursue higher studies abroad. In 1946, Dr. Rajeswari was selected for that scholarship in the field of 'Electronics and its applications'. With this, she got



admission to the University of Michigan in Ann Arbor, USA. At Michigan, she completed her Master's degree from the Department of Electrical Engineering. Then, following the agreement with the Government of India, she underwent practical training for eight months in the Division of Radio Frequency Measurements at the National Bureau of Standards in Washington D.C. In 1949, she went back to Michigan to continue her studies leading to a Ph.D degree. After completing doctorate under the guidance of Professor William G. Dow, in early 1953, Dr Rajeshwari returned back to India.

On returning to India, she joined the Department of Electrical Communication Engineering at IISc as a faculty member. She was the first female faculty of IISc, Bangalore. She, along with Dr. S. K. Chatterjee, initiated teaching and research in the area of Microwave

Engineering, for the first time in India. With total dedication and the limited resources available at that time, they built up a Microwave Laboratory for experimental research in the area. Several research students joined and closely worked with them, received valuable hands-on experience in the laboratory. To the students, they were not just research supervisors, but mentors who cared for them.

Dr. Rajeswari, subsequently became a Professor and also held the position of Chairman in the Department of Electrical Communication Engineering. She guided 20 Ph.D students, published over 100 research papers and seven books in Microwave Engineering and Antennas. Over the three decades of her career at IISc, Dr. Rajeswari distinguished herself not only for her research contributions, but also as a considerate and caring teacher.

Besides science and engineering, Dr. Rajeswari had interest in history and on many issues concerning society. After retiring from IISc, she started working in social programmes, mainly with the Indian Association for Women's Studies. She addressed issues of caste and gender discrimination, particularly concerning women from poor financial background.

Dr. Rajeswari received several awards and honours for her contributions in the field of spacecraft applications. These include the Lord Mountbatten prize for the best paper from the Institute of Electrical and Radio Engineering, (UK), the J.C Bose Memorial prize for the best research paper from the Institution of Engineers, and the Ramlal Wadhwa Award for the best research and teaching work from the Institute of Electronics and Telecommunication Engineers. She was also a Fellow of several professional engineering societies. She retired as Professor in 1982. Dr. Rajeswari is survived by a daughter, Indira Chatterjee, presently a Professor of Electrical and Biomedical Engineering at the University of Nevada, Reno, USA.

“As an alumna of M/s. Mahila Seva Samaja I have had the opportunity of meeting Dr. Rajeswari Chatterjee several times during the school functions and have had the privilege of getting scholarship instituted in the name of her grand mother & father, Rev. Kamamma and Dasappa”

Narayan R. Mane
Secretary, BNMEI

TECHNICAL ARTICLES

1200kV National Test Station - A Milestone in the field of Transmission of Electricity

India's power sector has witnessed a new era in the transmission segment when Power Grid Corporation of India Limited (PGCIL) launched a 1200 kV Ultra-High voltage (UHV) test station along with experimental lines in Bina, Madhya Pradesh. According to the Indian Electrical and Electronics Manufacturers' Association (IEEMA), the first 1200 kV system field was tested and commissioned in the former Soviet Union in 1985 after 12 years of research, which was discontinued after the disintegration of the Union.

Till now the power is transmitted on 765kV/ 800 kV lines. The existing 400kV line can transfer about 600 MW power, 800 kV line can do between 1200 MW and 2400MW and 1200kV transfer 6000-8000MW. About 35 manufacturers including BHEL, Areva, Siemens and Sterlite have joined hands with Power Grid to establish the 1200kV test station.

The Ultra-High voltage 1200kV National Test Station (NTS) was operationalized on May 18, 2021. The NTS will



help in increasing power carrying capacity. The test line in Bina is being constructed with two 1200kV test bays in which the leading manufacturers are providing main equipment such as transformers, surge arresters, circuit breakers and others. These test bays were used for various field trials initially.

This will usher a new phase in the transmission sector as with a limited Right of Way (RoW), bulk power will be evacuated from the point of generation to the load centre. The investment for the project is estimated to be around Rs.800 crore. The company is also setting up a 1200kV transmission line for commercial purposes which will be constructed between Waradha and Aurangabad in Maharashtra.

This 1200kV station has a power carrying capacity that is five to six times more than the 400kV stations for transmission of power. Thus this station will augment the Country's transmission capacity many folds. This will be a milestone in the introduction of UHVAC Technology in the Indian Power Sector and many initiatives should be taken in the future also for the benefit of the Country.

Varshini Nataraj
6th Semester
1BG18EE051

References:

1. <https://npti.gov.in/sites/default/files/download> (accessed on 15th October 2021).
2. <https://www.powergridindia.com/powergrid-launch-indias-first-1200-kv-station> (accessed on 15th October 2021).

EV Charging Needs and BESCOT Infrastructure

Electric Vehicle Supply Equipment

Electric vehicles (EV) can be charged in a variety of ways, depending on location and requirement. Accordingly, charging infrastructure for EVs is of different types and designed for different applications. Specifications and standards for EV chargers, also known as Electric Vehicle Supply Equipment (EVSE), vary from one country to another, based on available EV models in the market and the characteristics of the electricity grid.

Electric Vehicle Supply Equipment (EVSE) is the basic unit of EV charging infrastructure. The EVSE accesses power from the local electricity supply and utilizes a control system and wired connection to safely charge EVs. An EVSE control system enables various functions such as user authentication, authorization for charging, information recording and exchange for network management, and data privacy and security. It is recommended to use EVSEs with at least basic control and management functions, for all charging purposes. Conductive charging, or plug-in (wired) charging, is the mainstream charging technology in use. Requirements of EVSE for conductive charging depend on factors such as vehicle type, battery capacity, charging methods, and power ratings.

In India, transport electrification over the next decade is expected to be driven by light electric vehicles (LEVs), comprising two-wheelers (scooters, motorcycles) and three-wheelers (passenger and cargo). Apart from these, cars and Light Commercial Vehicles (LCVs) are the other key vehicle segments being electrified. Electric buses will also be present in significant numbers

Charging Requirement

EV charging requirements depend on the specifications of EV batteries, as power must be supplied to the battery at the right voltage and current levels to permit charging. The typical capacity and voltage of EV batteries vary among the different EV segments, e-2Ws and e-3Ws are powered by low-voltage batteries. The first generation of e-cars is also powered by low voltage batteries. However, these are likely to be phased out in the future, even if they continue in specific use cases such as taxis. The second generation of e-cars, as seen in the upcoming e-car models, is powered by high-voltage batteries. Electric LCVs will comprise of both low-voltage and high-voltage vehicles, depending on their load-carrying capacity.

VEHICLE SEGMENT	BATTERY CAPACITY	BATTERY VOLTAGE
E-2W	1.2-3.3 kWh	48-72V
E-3W (passenger/ goods)	3.6-8 kWh	48-60V
E-3W (passenger/ goods)	21 kWh	72V
E-cars (2nd generation)	30-80 kWh	350-500V

BESCOM Infrastructure



At present the Bangalore Electricity Supply Company Limited (BESCOM) has two charger models in the charging station namely AC001 and DC001. The AC001 can charge three vehicles at a time, whereas the DC001 can charge only one vehicle at a time.

Currently, BESCOM has installed 136 public charging points in 74 locations where they witness an upsurge in usage, prompting them to set up more stations to meet the sudden surge in demand for EVs.

Started in January 2020, the 136 stations recorded a steady increase in sessions, with each vehicle charging at the station regarded as one session. While a mere 33

sessions were recorded in April 2020, it zoomed to over 6,000 sessions by October.

The initiative to set up charging points is taken up under the Government of India's ambitious Faster Adoption and Manufacturing of Hybrid and EV (FAME II) scheme. Making best use of the programme, the energy department wants to commission 980 new stations in Bengaluru alone. Apart from ramping up infrastructure, BESCOM is working with the urban development department to change building bylaws to mandate charging stations in any construction over 800 sqm. Also, the transport department is working on a policy to dedicate a portion of the parking space across the city for EV's.

Madhukeshwar S Maalige
6th Semester
1BG18EE024

References:

1. <https://bescom.karnataka.gov.in/newpage/Guidelines%20for%20setting%20up%20EV%20Charging%20Station/en> (accessed on 15th October 2021)
2. <https://indianexpress.com/article/cities/bangalore/bescom-launches-app-to-locate-ev-charging-stations-in-bangaluru-7685277/> (accessed on 15th October 2021)

IoT enabled Smart Lighting System

The Internet of Things is everywhere today, from industrial applications to emergency services, public transportation, public safety, city lighting and other smart city applications. The industry is growing so rapidly that it is a difficult undertaking to capture the breadth of applications in this industry. In fact, "Smart Cities" could be considered a collection of industries that includes city lighting, city transit, wastewater management, emergency services, traffic management and more.

IoT enabled Smart Lighting Systems for Smart Cities

A Smart Lighting System (SLS) is an automatic and intelligent lighting control system that is managed in a centralized or distributed way by different IoT communication protocols, devices, and their sensors. In an SLS, there are three basic components of the system architecture:



- 1) **Lamp Unit (LU):** In recent years, significant improvements have been achieved in lamp manufacturing technologies. Typically, an LU of an SLS consists of a controller and several sensors connected to it, which gathers data and provides the ability to communicate. The data can be gathered from motion sensors or light sensors.
- 2) **Local Control Unit (LCU):** Local control unit collects the data from an array of LUs through a short range communication protocol (e.g., IEEE 802.15.4 protocols such as ZigBee, Bluetooth etc.) and transmits the data.
- 3) **Control Centre (CC):** The Control Center collects all types of data from LCUs and stores it on a server. With this, a more cost-effective SLS model is possible as a device, storing data from all the LCUs for large urban areas. This requires a large storage unit on the server. Different data analysis tools are then used to visualize and analyse such data.

Implementation of SLS in the smart city can reduce power consumption in indoor and outdoor scenarios significantly. In an IoT-enabled smart city environment, one of the major concerns is the efficient management of energy consumption. This issue is critical as more people start living in urban areas in the coming decades. Hence, focusing on IoT-enabled Smart Lighting Systems in a smart city, can effectively reduce the power consumption and provide more intelligent and energy saving operations.

Gagana S Kashi [1BG17EE012]
Bindu M [1BG17EE007]
8th sem

References:

1. Minoli, D.; Sohraby, K.; Occhiogrosso, “IoT Considerations, Requirements, and Architectures for Smart Buildings”, IEEE Internet of Things Journal, Vol. 4 (1), pp. 269-283, 2017.
2. A. Pandharipande and D. Caicedo, “Smart indoor lighting systems with luminaire-based sensing: A review of lighting control approaches”, Journal of Energy and Buildings, Vol. 104 (1), pp. 369-377, 2015.

DEPARTMENT ACTIVITIES
Faculty Development Programme

Technical Webinar

Webinar Conduction Date: 21/05/2021

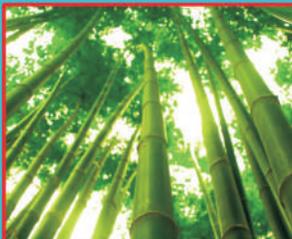
Participants: Faculty members of BNMIT.



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Department of Electrical & Electronics Engineering



**Webinar on
Sustainability Engineering**





Resource Person: Mr. K P Murthy
 Founder: Clean Technology Clubs
 Member: National Governing Council
 Bamboo Society of India
 Former GM Bosch

**Date: 21/05/2021
(Friday)**
Time: 05:30 PM – 06:15 PM

Link for Webinar

Dr. R V Parimala
HoD, EEE, BNMIT

Dr. Krishnamurthy G N
Principal, BNMIT

Prof. Eishwar N Maanay
Dean Admin, BNMIT

Dr. S Y Kulkarni
Addl. Director, BNMIT

Prof. T J Ramamurthy
Director, BNMIT

Description: A webinar on “Sustainability Engineering” was organized by the Department of EEE, BNMIT on 21/05/2021. This webinar was an opportunity for all the faculty members of BNMIT to enrich their knowledge in the field of Clean Power.

Mr. K P Murthy, member, National Governing Council, Bamboo Society of India, delivered the technical talk on “Sustainability Engineering”. He shared information about various projects that can be carried in the field of bio-fuel for synthetic gas production, organic silica for semiconductors and bamboo bicycles.

Two Days' Technical Webinar

Webinar Conduction Date: 29/06/2021 & 30/06/2021

Participants: Members of the Institution of Engineers (India) Students' Chapter, Dept. of EEE, BNMIT.

Description: A two-day webinar on “Research & Advancement in Electric Vehicle Technology” was organized by the Department of EEE under Institution of Engineers (India) Students' Chapter, BNMIT on 29/06/2021 & 30/06/2021. Dr. Prateek Jain, Professor, MIT, Manipal delivered a technical talk “Grid Integration of Large-Scale Electric Vehicle Resources: Challenges and Opportunities” on first day and Dr. Sanjeev K Naik, Hardware architect, Electric Vehicle, Valeo Private India Limited, Chennai, delivered a talk “Hybrid Electric Vehicle” on second day.

This webinar was an opportunity for the second year, pre-final year and final year students to enrich their knowledge and skills in developing various engineering solutions in the field of Electric Vehicle Technology. The participants were able to gain knowledge of battery size, motor specifications, Battery Management System (BMS), power train, role of power electronics in EV, research openings and advancements in EV technology.



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Department of Electrical & Electronics Engineering

IE (India) Students' Chapter



Resource Person: Dr. Prateek Jain
Professor, MIT, Manipal
Topic: Grid Integration of Large-Scale Electric Vehicle Resource: Challenges & Opportunities
Date: 29/06/2021
Time: 05:30 to 07:00 pm

Resource Person: Dr. Sanjeev Naik
Hardware Architect, Electric Vehicle, Valeo Private India Ltd, Chennai
Topic: Hybrid Electric Vehicles
Date: 30/06/2021
Time: 05:30 to 07:00 pm

Two days webinar Series: Research & Advancement in Electric Vehicle Technology

Organized by

Dr. Venkatesha K
Professor, IE (I) Coordinator, Dept. of EEE, BNMIT

Dr. R V Parimala
HoD, Dept. of EEE, BNMIT

Click for webinar link



STAFF ACHIEVEMENTS

1. Smt. Madhu S, Associate Professor, Department of Electrical & Electronics Engineering has been awarded Ph.D. degree for her research work titled “Denoising of Partial Discharge signals using Adaptive thresholding based on Statistical Parameters” in the 20th VTU Annual convocation held on 3rd April 2021.
2. Smt. Shubha Rao K, Associate Professor, Department of Electrical & Electronics Engineering has been awarded Ph.D. degree for her research work titled “Design and Implementation of Load Aware High Performance Switching Mode Power Supply for System on Chip (SoC)” in the 20th VTU Annual convocation held on 3rd April 2021.
3. Sri. A Kumar, Associate Professor, Department of Electrical & Electronics Engineering published a paper entitled “Transformer Incipient fault prediction using Support Vector Machine (SVM)” in Journal of University of Shanghai for Science and Technology, Vol 23, Issue 5, May 2021, PP: 737-744, ISSN: 1007-6735 (Q4 Scopus indexed journal) <http://doi.org/10.51201/JUSST/21/05208>
4. Ms. Kruthi Jayaram, Assistant Professor, Department of Electrical & Electronics Engineering published a paper entitled “Simulation based three phase single stage grid connected Inverter using photovoltaics” in Journal of University of Shanghai for Science and Technology, Vol 23, Issue 5, May 2021, PP: 737-744, ISSN: 1007-6735 (Q4 Scopus indexed journal) <http://doi.org/10.51201/JUSST/21/05190>
5. Sri. A Kumar, Associate Professor, Department of Electrical & Electronics Engineering published a Book chapter entitled “Advancements in Engineering and Management- Application of k-Nearest Neighbor (kNN) Machine Algorithm for Transformer Fault Classification”, Advancements in Engineering and Management, Web.: www.manglampublications.com.
6. Ms. Kruthi Jayaram, Assistant Professor, Department of Electrical & Electronics Engineering published a Book chapter entitled “Advanced Research in Solar Energy- Design of MPPT Based Boost Converter Topology for Photovoltaic System”, Grinrey Publications 2021, www.grinrey.com, Advanced Research in Solar Energy, ISBN: 978-81-948951-7-6, Book Series: Research Transcripts in Energy, Vol: 01.

STUDENTS' ACHIEVEMENTS

Participation in events

1. Shreya Singh of 6th Sem participated in state level competition IDEATHON on “How to improve safety and health @ college campus during pandemic COVID-19” held during 1st week of May 2021 organized by Channabasaveshwara Institute of Technology, Gubbi, Tumakuru
2. Aditya Gautam of 6th Sem participated in state level competition IDEATHON on “How to improve safety and health @ college campus during pandemic COVID-19” held during 1st week of May 2021 organized by Channabasaveshwara Institute of Technology, Gubbi, Tumakuru
3. Shreya Singh of 6th Sem participated in the webinar on “Hybrid Electric Vehicle Technology – Basics” organized by Toyota Kirloskar Motor Pvt. Ltd.
4. Shreya Singh of 6th Sem participated in the “Hackathon-1| Geoffrey Hinton Fellowship” a National AI hackathon conducted online between 27th March & 20th April 2021
5. Shreya Singh of 6th Sem secured consolation prize in the Debate Competition organized by Kalabhageerathi, Cultural forum, BNM Institute of Technology on 15th May 2021
6. Soundarya P S of 6th Sem participated in Quiz organized on the occasion of “World Environment Day – 2021” by the Dept. of Zoology under IQAC initiative on 5th June 2021
7. Aditya Gautam of 6th Sem completed “Master Class on Electric Vehicle Design using MATLAB (5Days)” at Pantech Prolabs India Pvt. Ltd. from 3rd to 7th May 2021
8. Devaraju D of 8th Sem completed “Master Class on Electric Vehicle Design using MATLAB (5Days)” at Pantech Prolabs India Pvt. Ltd. from 3rd to 7th May 2021
9. Aditya Gautam of 6th Sem participated in “The Guinness World Record Event – Most users to take an online computer programming lesson in 24 hours” on 24th April 6pm to 25th April 6pm
10. Chandrashekar M S of 6th Sem participated in “The Guinness World Record Event – Most users to take an online computer programming lesson in 24 hours” on 24th April 6pm to 25th April 6pm
11. Aditya Gautam of 6th Sem participated in the Debate Competition organized by Kalabhageerathi, Cultural forum, BNM Institute of Technology on 14th May 2021
12. Adisha Suma Srinivas of 4th Sem attended workshop on “Python and Data Science”, organized by ISTE Students Chapter-BNMIT on 5th & 6th June 2021
13. Harika N P of 4th Sem attended workshop on “Python and Data Science”, organized by ISTE Students Chapter-BNMIT on 5th & 6th June 2021
14. Shubhra Jyothsna B of 4th Sem completed “Master Class on Electric Vehicle Design using MATLAB (5Days)” at Pantech Prolabs India Pvt. Ltd. from 3rd to 7th May 2021
15. Harika N P of 4th Sem attended “Advanced Excel Workshop”, by JS Academy on 9th May 2021

Courses

1. Shreya Singh of 6th Sem completed an online course on “Build a Face Recognition Application using Python” by GUVI on 24th April 2021
2. Aditya Gautam of 6th Sem completed an online course on “Build a Face Recognition Application using Python” as a part of AI-For-India Event by GUVI on 25th April 2021
3. Aditya Gautam of 6th Sem completed an online course on “Engineering Virtual Program” by Forage over a period of January 2021 to March 2021
4. Siddharth K S of 3rd Sem completed an online course on “Python” by GUVI, 9th January 2021

EDITORIAL TEAM

Faculty

Dr. S. Sudalai Shunmugam, Associate Professor

Smt. Ashwini A, Assistant Professor

Dr. Shashi Prabha, Assistant Professor - English

Students

Sanjeev B, VIII Sem

Adithya Ramesh, VI Sem

Subhra Jyothsna, IV Sem

Vinay Krishna, II Sem

Designed by

Sri. P. M. Anand, System Manager