



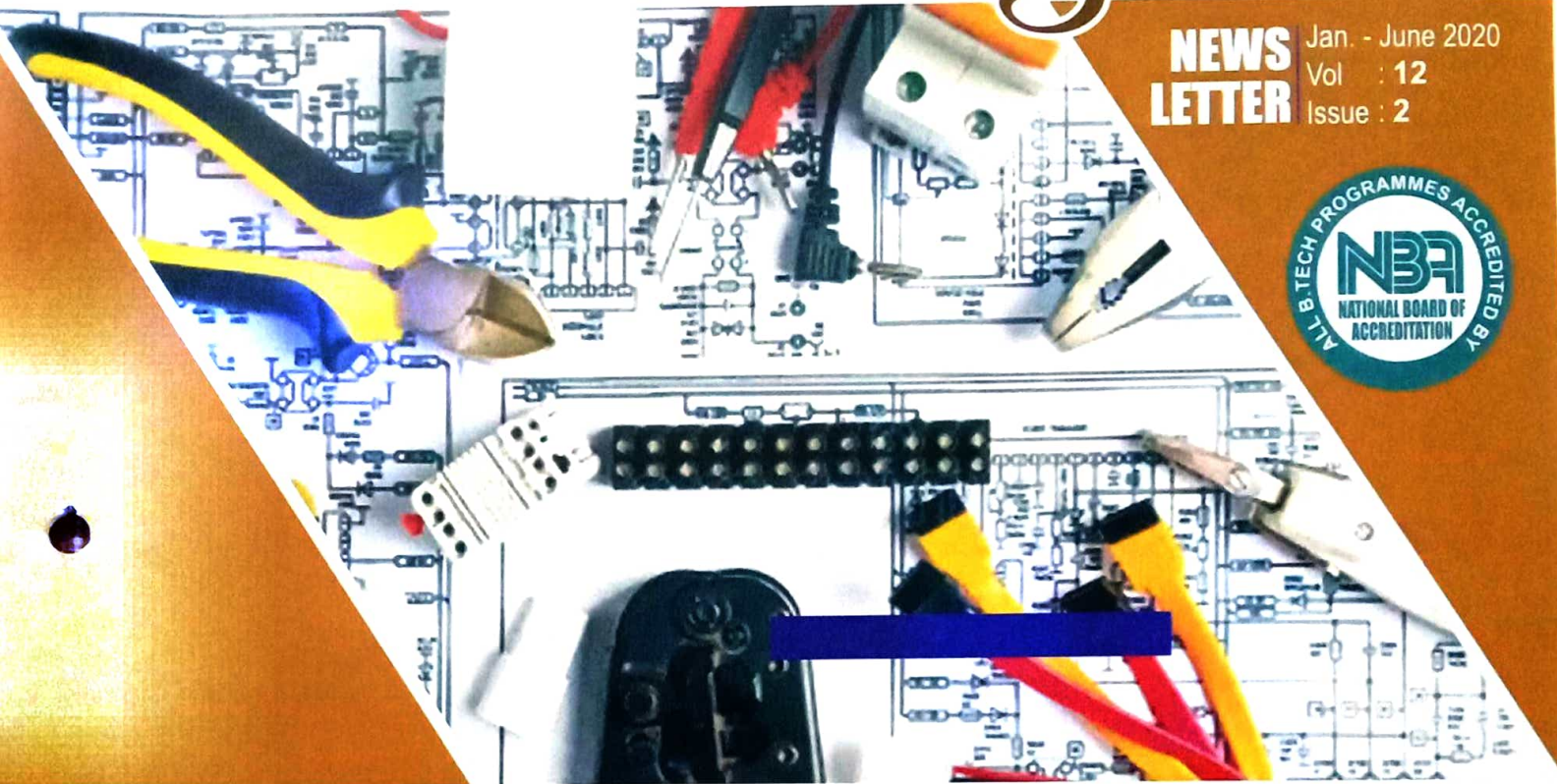
# VISWAJYOTHI

COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE New Delhi & Affiliated to APJ Abdul Kalam Technological University

# चिद्विद्युत्

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## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

### INSTITUTE VISION

"Moulding Professionals par Excellence with Integrity Fairness and Human Values".

### INSTITUTE MISSION

1. We commit to develop the institution as a Center of Excellence of International Standards
2. We guide our students in the attainment of intellectual and professional competence for successfully coping with the rapid advancements in technologies and the ever changing world of business, industry and services
3. We help each and every student in their personal growth into mature and responsible individuals
4. We strive to cultivate a sense of social and civic responsibility in our students, thus empowering them to serve humanity.
5. We promise to ensure a free environment where quest for the truth is encouraged

### VISION OF THE DEPARTMENT

"Mould globally competent Electrical and Electronics Engineers."

### MISSION OF THE DEPARTMENT

1. To provide the best academic ambiance.
2. To develop technical and soft skills to cope up with the emerging global scenario.
3. To enhance knowledge by industry and alumni interaction.

### ABOUT THE DEPARTMENT

The Department of Electrical and Electronics Engineering –accredited by National Board of Accreditation, is established in the year 2004 with well equipped state of art laboratories. The Department has a fine blend of renowned as well as young and dynamic personalities as faculty members, who have been motivating the students for getting the best out of them. The department offers under graduate program in Electrical and Electronics Engineering with an intake of 60 students. The department focuses on overall development of the students by encouraging them to take part in student's association activities, internships and industrial training. The department had secured Five University Ranks since its inception, and the 1st Rank of 2013-'17 batch adds a jewel to its crown. The academic strength of the faculty is reflected by the alumni, many of whom are in top echelons of industry and academia both in India and abroad. The students of the department play leading roles in all the activities of the college



### HOOD'S MESSAGE

The department of Electrical and Electronics Engineering has always been striving for excellence in the teaching learning process and in all other activities focused towards creating a strong foundation over which our students can build a successful professional career. The strength of the department lies in the highly motivated faculty members who enables the students to understand the dynamics of the industry and hone their skills accordingly. The department always focuses on the enrichment of EEE community, molding the young engineers to be victorious in various fields of engineering. My best wishes to the department team who work with the determination.

Dr. K.K.Rajan

### HOD'S MESSAGE



I am happy to learn that the department of Electrical and Electronics Engineering is bringing out its bi-annual magazine VIDHYUTH for the year 2019-20. The magazine helps to record the technical journey of the association over the year and provide an opportunity for the students to showcase their talent and explore their creative potential. The efforts taken to bring about innovative content is appreciable. The release of this issue of newsletter has added value to the constant effort of the students. Through this message, I wish them "All the very Best" for their future endeavors and hope the students bring more laurels to the college as a whole

Dr. B. Aruna

### LIST OF FACULTY PUBLICATIONS

- Ms. Cini K presented 'Dynamic Voltage Restorer' in National conference on 'Advancements in Control and Computing technologies in Electrical Engineering' from 15th -16th July 2020.
- Mr. Aneesh Kurian presented 'Wireless Charging of Electric Vehicles' in National conference on 'Advancements in Control and Computing technologies in Electrical Engineering' from 15th -16th July 2020.
- Ms. Neena Skaria presented 'Solar Powered Remote Controlled Sewage Cleaning Machine' in National conference on 'Advancements in Control and Computing technologies in Electrical Engineering' from 15th -16th July 2020.
- Ms. Jis Jose presented 'Intruder Detection and Alert System using Hybrid Doppler Radar' in National conference on 'Advancements in Control and Computing technologies in Electrical Engineering' from 15th -16th July 2020.
- Mr. Sharone Varghese Presented 'Solar Integrated Electric Panel' in National conference on 'Advancements in Control and Computing technologies in Electrical Engineering' from 15th -16th July 2020.
- Ms. Jane Maria S Presented 'Dynamic Voltage Restorer' in National conference on 'Advancements in Control and Computing technologies in Electrical Engineering' from 15th -16th July 2020.
- Mr. Aneesh Kurian Presented 'Real Time Pothole Detection using Dedicated sensors and atmega2560' in National conference on 'Advancements in Control and Computing technologies in Electrical Engineering' from 15th -16th July 2020.
- Mr. Dileep Kumar P Presented 'Error Detection in Solar Panel' in National conference on 'Advancements in Control and Computing technologies in Electrical Engineering' from 15th -16th July 2020.
- Ms. Seethamma George Presented 'Automatic Floor Cleaning Robot' in National conference on 'Advancements in Control and Computing technologies in Electrical Engineering' from 15th -16th July 2020.
- Ms. Neena Skaria Presented 'Smart Gas Cylinder' in National conference on 'Advancements in Control and Computing

- technologies in Electrical Engineering' from 15th -16th July 2020
- Ms. Neena Alex Presented 'Eye Controlled Wheelchair' in National conference on 'Advancements in Control and Computing technologies in Electrical Engineering' from 15th -16th July 2020.
- Mr. Dileep Kumar P Presented 'Automatic Shopping Trolley' in National conference on 'Advancements in Control and Computing technologies in Electrical Engineering' from 15th -16th July 2020.
- Ms. Smitha Jacob Presented 'Smart School Bag' in National conference on 'Advancements in Control and Computing technologies in Electrical Engineering' from 15th -16th July 2020.
- Ms. Seena Paul Presented 'Intelligent Poultry Farm' in National conference on 'Advancements in Control and Computing technologies in Electrical Engineering' from 15th -16th July 2020.
- Dr. Sony Kurian Presented 'Standalone wind turbine system for campus street lighting' in National conference on 'Advancements in Control and Computing technologies in Electrical Engineering' from 15th -16th July 2020.
- Ms. Mereya Baby Presented 'Density Based Traffic Signal Control Using ARDUINO and IR Sensors' in National conference on 'Advancements in Control and Computing technologies in Electrical Engineering' from 15th -16th July 2020.
- Mr. Sharone Varghese Presented 'Remotely Operated Human Search And Rescue(R.O.H.S.A.R) Robot' in National conference on 'Advancements in Control and Computing technologies in Electrical Engineering' from 15th -16th July 2020.
- Mr. Jomu M George Presented 'Data Collection and monitoring of power supply alternatives' in National conference on 'Advancements in Control and Computing technologies in Electrical Engineering' from 15th -16th July 2020.

### TECHNICAL VISITS / SEMINARS / SHORT TERM TRAINING PROGRAMMES

- Mrs. Smitha Jacob and Mrs. Mereya Baby coordinated webinar on 'Engineering Applications of Nano Materials' 6th July 2020.
- Ms. Seena Paul and Ms. Jane Maria S coordinated National Conference on "Advancements in Control & Computing

Technologies" from 15th to 16th July 2020.

- **Mr. Aneesh Kurian** Coordinated webinar on on Emerging trends in electric vehicle Technologies by Mr. Vijayan Nandalan on 26th June 2020.
- **Mr. Aneesh Kurian** Coordinated webinar on Relevance of sustainable development-post COVID Scenario by Shri C R Neelakandan on 3rd June 2020
- **Ms. Jane Maria S and Ms. Seena Paul** Coordinated Technical Talk on MEP training by Mr. Akhilesh kumar on 14th February 2020
- **Mr. Aneesh Kurian** coordinated Workshop on "Recent trends in Solar Power Generation Technology" by Dr.K.K. Rajan on 5th march 2020
- **Mr. Sharone Varghese** attended Webinar on Role of Mechanical Engineering in Society Development, VJCET, 19th June 2020
- **Faculty members of EEE department** Attended webinar on Emerging trends in electric vehicle Technologies by Mr. Vijayan Nandalan on 26th June 2020.
- **Faculty members of EEE department** attended webinar on Relevance of sustainable development-post COVID Scenario by Shri C R Neelakandan on 3rd June 2020
- **Ms. Cini K** attended webinar on Importance of well-being in times of Covid-19 Pandemic, by Mr. Dennis Thomas on 30th June 2020.

## STUDENT ACHIEVEMENTS IN EVENTS HELD IN/OUTSIDE THE COLLEGE.

- **A team of students from EEE Department** participated in 7th Gkdc Go Kart design challenge conducted by Indian Society of New Era Engineers held at Coimbatore under the Guidance of Mr. Jomu M George, Assistant Professor, EEE Department. The team participated in the electrical section of the event and secured 7th position by completing every test that was conducted.



- **Ms. Gayathri L Kumar** of S2 EEE was awarded Certificate Of Commitment for demonstrating her commitment to promote Safty Against COVID 19 delgon technologies.
- **Ms. Nimmi Sabu, Ms. Mariya Benny, Ms. Aneena Roy, Ms. Nitha James, and Mr. Vishnu Ajay** of S6 EE A has completed a course in Introduction to HTML by Project Network.
- **Ms. Nimmi Sabu, Ms. Aneena Roy and, Ms. Nitha James** of S6 EE A has completed a course in programming for Everybody by University of Michigan.
- **Ms. Nimmi Sabu, Ms. Maria Benny, Ms. Aneena Roy, Ms. Nitha James and Mr. Vishnu Ajay** of S6 EE A has completed a course in Build a full website using word process by Project Networks
- **Ms. Maria Benny** of S6 EE A has completed a course in Electric Power Systems by University at Buffalo.
- **Ms. Maria Benny** of S6 EE A has completed a course in AI for everyone by Deeplearning.ai
- **Ms. Maria Benny** of S6 EE A has completed a course Solar Energy

Systems Overview by University of Buffalo

- **Ms. Maria Benny** of S6 EE A has completed a course Solar Energy Systems Overview by University of Buffalo
- **Mr. S. Sankaranarayanan** of S8 EE A has completed a course on Learn to Design Your Own Solar Home Systems by Kumaraguru College of Technology
- **Mr. Abin Anil** of S8 EE A has completed a course on Innovation from Creativity to Entrepreneur by Course era
- **Mr. Abin Anil and Mr. krishnanand Saji** of S8 EE A has completed a course on introduction to internet of things and embedded systems by Course era
- **Mr. Abin Anil, Mr. krishnanand Saji, Mr. Sooraj S and Mr. Jithu Thankachan** of S8 EE A and Ms. Archana P Raju of S8 EE B has completed a course on electric power systems by The state University of NewYork
- **Mr. V.T Manoj** of S8 EE A has completed a course on Electric Industry Operations and markets by Duke university.
- **Mr. Jithu Thankachan** of S8 EE A has completed a course Introduction to the Internet of Things and Embedded Systems by University of California
- **Mr. V.T Manoj** of S8 EE A has completed a course on Electric Industry Operations and markets by Duke university.
- **Mr. S Sankaranarayanan** of S8 EE A has completed a course on Solar Energy and Electrical System Design, Solar Energy Basics, Solar Energy System Codes, Permitting and Zoning, solar energy systems overview by State University of NewYork
- **Mr. S Sankaranarayanan** of S8 EE A has completed a course on Introduction to solar cells by Technical University of Denmark
- **Mr. Don Dominic** of S8 EE A has completed a course on Python Data Structures, Programming for Everybody by University of Michigan
- **Mr. Don Dominic** of S8 EE A has completed a course on Solar Energy Basics by State University of NewYork
- **Mr. Dipu Joseph** of S8 EE A has completed a course on Engineering Project Management by RICE.
- **Mr. Dipu Joseph** of S8 EE A has completed a course on Energy Production Distribution and Safty by University of Buffalo
- **Ms. Greeshma Surendran** Of S4 EE has completed a course on AI for everyone by Deeplearning.ai
- **Mr. Pranav Sathyan and Mr. Vinod Venugopal**, of S8 EE B has completed 1 week course on fundamentals of Python by Hortari Technologies.
- **Mr. Albert Augustine** of S8 EE B has completed a course on Induction Motor by Tata Steel.
- **Ms. Amritha Satheesh Kumar** of S8 EE B has completed a course on Production and Operation management by NPTEL
- **Ms. Amritha Satheesh Kumar** of S8 EE B has completed a course Electric Industry operations and markets by Duke University
- **Ms. Archana P Raju**, of S8 EE B has completed a course on Learn to Design Your own solar home system by Energy Swaraj Foundation.
- **Ms. Seethal Manoj Mohan, Ms. Anju V, Ms. Sachin Saji, Mr. Abhijith M A, Ms. Meera R, Ms. Gayathri L Kumar and Alan K Binoy** of S2 EEE has completed a course on 'Electric Power System' by The State University Of Newyork

- Ms. Seethal Manoj Mohan, Ms. Anju V, Ms. Sachin Saji, Mr. Abhijith M A, Ms. Amutha Raj, Ms. Gayathri L Kumar, Ms. Aswani Chandran, Ms. Jyothika George, Ms. Meera R and Alan K Binoy of S2 EEE has completed a course on 'Mind Control: Managing Your Mental Health' by University Of Toronto
- Mr. Sachin Saji of S2 EE has completed a course on 'Programming Fundamentals' by Duke University.

#### INVITED TALKS / GUEST LECTURERS.

- Webinar on Engineering Applications of Nanomaterials by Dr. Ajitha A R on 6th July 2020 for students of S2 EE and S4 EE.
- Technical Talk on MEP training by Mr. Akhilesh kumar on 14th February 2020 for S8 EEE
- Workshop on "Recent trends in Solar Power Generation Technology" by Dr. K.K. Rajan on 5th March 2020

#### NATIONAL CONFERENCE

The Department conducted a 2-day national conference on "Advancements in Control & Computing Technologies" from 15th to 16th July 2020

#### Webinar on Relevance of sustainable development-post COVID Scenario

The webinar was conducted on 3rd June 2020. The Keynote Speaker was Shri C R Neelakandan, an environmental Activist and Former DGM, KELTRON controls, Aroor

#### Webinar on Emerging trends in electric vehicle Technologies

The webinar was conducted on 26th June 2020 by Mr. Vijayan Nandalan, Former Scientist, ISRO, Trivandrum. The webinar focused on the relevance of electric vehicle, power converting technologies and their storage system

#### PhD Guideship

Dr. Sony Kurian, Associate Professor, EEE Department is awarded with PhD guideship by APJ Abdul Kalam Technological University of Kerala.

#### TRAINING PROGRAMMES ORGANIZED OUTSIDE AND ATTENDED BY THE DEPARTMENT FACULTY

- Ms. Smitha Jacob has completed a 6 week online course in Excel skills by Macquire University
- Mr. Sharone Varghese has completed a course on AI For Everyone, by deeplearning.ai
- Mr. Sharone Varghese has completed a course on Linear Regression with Numpy and Python, by Coursera
- Mr. Sharone Varghese has completed a course on Electric Power Systems, University of Buffalo, Suny,
- Mr. Sharone Varghese attended Webinar on
  - Digital Advancement Academics, Bentley Institute, July 13, 2020
  - Virtual Labs: Effective Tools for Teaching & Learning,

- Maharshi Karve Stree Shikshan Samastha's Cummins College on Engineering for Women, Nagpur, 10th July.
- Online Tools for Researchers, Albretian Institute of Science and Technology, July 7, 2020

#### UNIVERSITY EXAM RESULT

Batch	Class	No. of Students Appeared	Pass Percentage
2016-20	S7	66	69.70
2017-21	S5	60	55
2018-22	S3	27	44.44
2019-23	S1	28	71.42

#### CURRENT PLACEMENT STATISTICS OF 2016-2020 B TECH BATCH

The students of the department are placed in various companies. As on 31st July 2020 twenty-one students of final year have been placed

Sl.No.	Student	Company
1	Akhil Biju	Infosys
2	Anusree R	TCS
3	Anandhu Selivan	Indoshell
4	Ajay M Joy	Indoshell, Sutherland
5	Midhun Saiu	Indoshell
6	Sooraj S Suresh	Indoshell
7	Ciril Kurian Rison	Sutherland
8	Anakha Raj	Sutherland
9	Christy Baby	Sutherland
10	Mobin Koshv	Sutherland
11	Rubeena A A	Sutherland
12	Albert Augustine	Indoshell
13	Amritha Satheesh Kumar	Sutherland Global
14	Aparna R Nair	Infosys
15	Archana P Raju	G10X
16	Jishnu J	Pratian
17	Joseph Vincent	Hexaware
18	Kiran Babu	Infosys
19	Nandukrishna B	TCS
20	Raisa Razak	Hexaware
21	Varsha Antony	Sutherland, Nibodha Technologies