

NEXUS

Department of Electronics And Communication Engineering
Vimal Jyothi Engineering College, Chemperi
<https://www.vjec.ac.in>



HOD'S DESK

PROF. DR. ANTO SAHAYA DHAS

It gives me immense pleasure to note that another edition of NEXUS is ready for launch. Truly,

irrespective of class or cadre or calibre, it is the dynamism and pervasiveness of the vision that can lead to sustainable excellence. The big theme today is to focus on creativity and innovation alongside academics.

Entrepreneurial wealth creation has been explosive on account of the massive impact made by technology start-ups. It is research and development that fosters innovation and out of the box thinking, be it in design or in implementation. Interact with your predecessors pursuing their passions as entrepreneurs or as employees and they would vouch for the fact that career progression or wealth creation happens only when the vision extends beyond the periphery. Apply your mind in everything you do, whether it is a small laboratory project or a longer semester project. Understand the "Why", investigate the "Why not" and think through the "How else" and you would already have become an Inventor or Pioneer. "Never Ever Give Up". Stay Safe.....

Prof. Dr. Anto Sahaya Dhas

Head of Department
Electronics And Communication Engineering



VISION:

- To be a pacesetter in the field of Electronics and Communication Engineering.

MISSION:

- To provide quality education for the students in the field of Electronics & Communication Engineering.
- To educate students about professional and ethical responsibilities and train them to build life skills for their career development.

THIS ISSUE

Techfest • P. 2

Department Magazine • P. 3

Oxygen Concentrator • P. 4

Farewell • P. 5

Placement Corner • P. 6

Batch Topper • P. 6

Congratulation • P. 7

Webinar Participation • P. 7

Publications • P. 8

Resource Person • P. 9

Events Conducted • P. 9

Upcoming Events • P. 10

TECHFEST

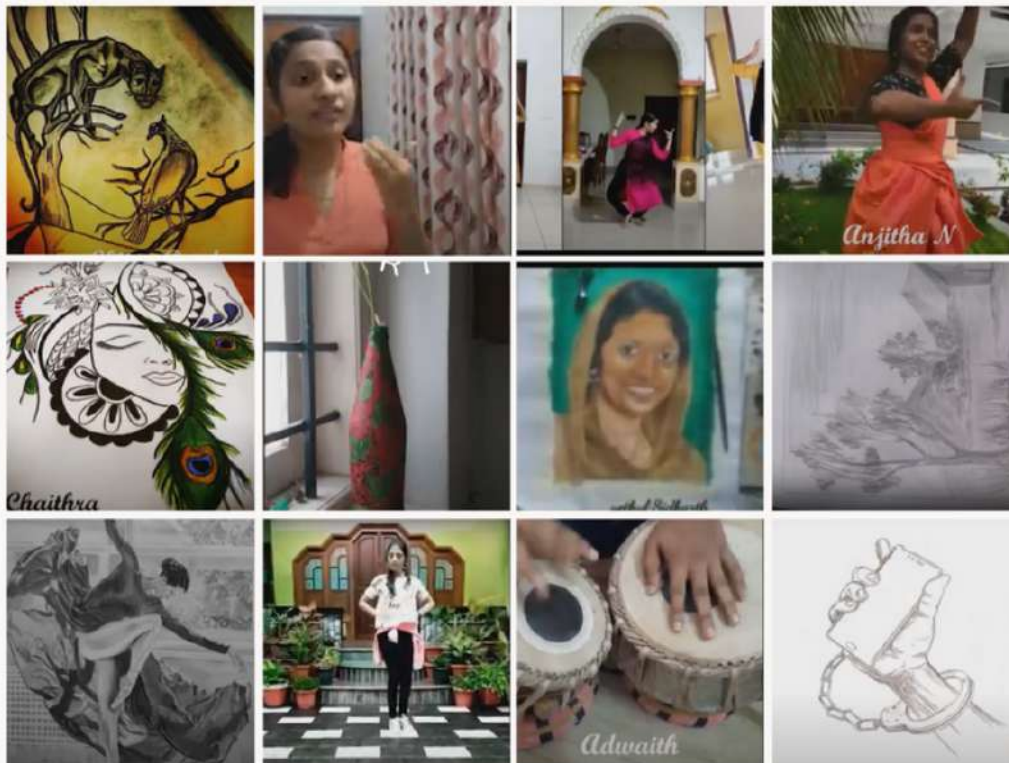
TECHNOPHILE

Department of Electronics and communication, Vimal Jyothi Engineering College successfully organised the techfest TECHNOPHILE 2K21 from 24th to 28th of June. The events commenced

from 24th June to 26th June and the valedictory function was held on 28th of June. Rohan UTC, Meldin Domine, Vineesha Lambert and Malavika Victor were the student coordinators and the staff coordinators were Mr. Adarsh K.S, Mr. Binil Kumar and Ms. Sudarshana Vijayan. Registration of events started on 18th June through Google Form and was closed on 21st June 2021. A total of 165 responses were received which includes 145 students from the ECE department and 20 students from other departments.

The events and coordinators list:

Circuit Designing - Abin Mathew Sali (S6), Yethul Sidharth (S6) | **Symbol Drawing** - Jesna K(S6), Jinita Elisa Augustine (S6) | **Idea Explore** - Anjali K.P (S4), Gopika Gopalakrishnan (S4) | **Marketing and Selling** - Martin P Thomas (S4), Angitha N (S4) | **Photo Manipulation** - Melwin Paul (S2), Navya M (S2) | **Poster Designing** - Nibin BV(S2), Sreejishnu (S2) | **Tech Speech** - Vineesha Lambert (S6), Malavika Victor (S6) | **Tech Quiz** - Rohan UTC (S6), Sebin Thomas (S6) | **Talent Showcasing** -Ksheera Sajeesh (S2), Sandra Elizabeth (S2)



WINNERS & PARTICIPANTS LIST

DEPARTMENT MAGAZINE

CARESTRA

One of the greatest missionaries to ever walk on earth, Mother Theresa once said "None of us, including me, ever do great things. But we can all do small things, with great love, and together we can do something wonderful." This turned out to be the core essence that steered us towards the creation of "CARESTRA".

We live in a Society where ethics and morals of all professions are getting sacrificed for material benefits. We urge you to remember always that acquisition of skills without values will do more harm than good. This magazine is a garland of talent, literary, fine art- presented to the Goddess of Wisdom. One flower cannot make a garland. The flowers have come from many gardens of many comers.



We have left no stone unturned in ensuring that this work of art will evoke a feeling of camaraderie and nostalgia in all those who lay their eyes on it. We have strived to present the contents with simplicity and authenticity to conquer the hearts of all readers. We'd like to thank all those who contributed their works to this magazine from the bottom of our hearts. Despite everything that we do, there is always a possibility of errors. Please excuse us for the same and all your suggestions are wholeheartedly welcome.

We are highly obliged to the donors who have contributed literal and fine art to bring out this Magazine. The thoughts, Ideas and Imaginations of young writers unfold as you turn over the pages.

'THE MAGAZINE TEAM'

READ NOW

കോവിഡ് പ്രതിരോധ രംഗത്ത് വിജയം വിമൽജ്യോതിയുടെ സംഭാവന

ഓക്സിജൻ വേർതിരിച്ചെടുക്കുന്ന മെഷീൻ നിർമ്മിച്ച് വിമൽജ്യോതി വിദ്യാർത്ഥികൾ

മലബാർ കോവിഡ് പ്രതിരോധ രംഗത്ത് മലബാരി വിമൽ ജ്യോതി കോളേജിന്റെ ഗവേഷണ സംഭാവനകൾ തുടരുന്നു. ഏറ്റുമാനൂർ സ്റ്റാമ്പിൽ അന്തർലോകത്തിൽനിന്നു നേരിട്ട് കൊണ്ടുവന്ന വേർതിരിച്ചെടുക്കുന്ന മെഷീൻ നിർമ്മിച്ചാണ് വിമൽ ജ്യോതി വിദ്യാർത്ഥികൾ ശ്രദ്ധേയമായത്.

വിപണിയിലുള്ള കോൺസൻട്രേറ്ററിന് 60,000 രൂപയ്ക്കു തീർക്കുമ്പോൾ രൂപയോളം മെഷീൻ വരും. എന്നാൽ വിദ്യാർത്ഥികൾ നിർമ്മിച്ച ഈ മെഷീന് 26,000 രൂപയ്ക്ക് അടുത്തു തുല്യമെ മെഷീൻ വരും.

യ്ക്ക് ലഭ്യമാകുമെന്നും നിർമ്മിച്ചു നൽകുന്നതിനുള്ള ഒരുക്കത്തിലാണ് കോളേജും വിദ്യാർത്ഥികളും.

വിപണിയിലുള്ള കോൺസൻട്രേറ്ററിന് 60,000 രൂപയ്ക്കു തീർക്കുമ്പോൾ രൂപയോളം മെഷീൻ വരും. എന്നാൽ വിദ്യാർത്ഥികൾ നിർമ്മിച്ച ഈ മെഷീന് 26,000 രൂപയ്ക്ക് അടുത്തു തുല്യമെ മെഷീൻ വരും. കോവിഡ് കാലഘട്ടത്തിൽ തന്നെ അനാപകാര്യപരമായ 'മെഷീനാൽ അന്തിരീന്ദ്രി' റോബോട്ട്, പെഡൽ റൈറ്റിംഗ് സാന്നിഹിതരൾ ഡിസ്പെൻസർ, റോബോ സാന്നിഹിതരൾ ഡിസ്പെൻസർ, വലിയ മാളുകളിലും ആശുപത്രികളിലുമെല്ലാം ആളുകളുടെ നിയന്ത്രണം സാധ്യമാക്കുന്ന ക്രൗഡ് കൺട്രോളിംഗ് റോബോ സിസ്റ്റം അടക്കമുള്ള പല കണ്ട്രോളിംഗ് സിസ്റ്റങ്ങൾ നമ്മുടെ ജീവിതത്തിലും വിവിധ കോവിഡ് നേരിട്ടുകളിലുമെല്ലാം അവ നൽകിവിമൽജ്യോതി വിദ്യാർത്ഥികൾ ശ്രദ്ധ നേടിയിരുന്നു.

കോവിഡ് രോഗികൾക്ക് ആശുപത്രികളിൽ ആവശ്യമായ മെഷീനുകളുടെ കരുത്ത കാരണം അനുഭവപ്പെടുന്ന ഈ കാലഘട്ടത്തിൽ ഹൃദയത്തിൽ പെട്ടെന്ന് ലഭിക്കുന്ന ഈ ഉപകരണം ഏറെ സഹായകമാകും. വിപണിയിൽ ഇന്നു ലഭ്യമാകുന്ന മെഷീനുകൾ കോൺസൻട്രേറ്ററിനേക്കാൾ വളരെ ചെറുപ്പമെങ്കിലും ചെലവിൽ ആവശ്യക്കാർക്ക് ലഭ്യമാക്കാൻ സാധിക്കുന്ന ഈ മെഷീൻ വ്യാവസായികാടിസ്ഥാനത്തിൽ പൊതുജനങ്ങൾക്ക് ലഭ്യമാക്കുന്ന



മുഖ്യമന്ത്രിയുടെ മലബാർ അന്വേഷണത്തിൽനിന്നു നേരിട്ട് കൊണ്ടുവന്ന വേർതിരിച്ചെടുക്കുന്ന മെഷീനുമായി മലബാർ വിമൽജ്യോതിയിലെ വിദ്യാർത്ഥികൾ.

OXYGEN CONCENTRATOR

PROTOTYPE

Second year students (2019-23 Batch) had successfully developed a prototype for Oxygen Concentrator.

The basic functionality of this machine is that it filters out the nitrogen in the atmospheric air and thereby providing oxygen rich air.

The aim of this project is compact in all terms i.e. compact in size, cost and weight. It should be affordable for a patient with a below average financial capability and should be with an average build quality.

Thanks to the great support extended by our Management and Principal. The team members are:

- Angitha N
- Manas Tom
- Ashik Benny
- Jobin Joseph
- Niswarth A. V
- Dhanush C. H
- Nevin Saji
- Nayana Saji
- Gopika Gopalakrishnan
- Geethika T
- Shilpa M Nair
- Jeena George



FAREWELL

ALOHA

To part is the lot of all mankind. The world is a scene of constant leave-taking, and the hands that grasp in cordial greeting today, are doomed ere long to unite for the the last time, when the quivering lips pronounce the word - Farewell.

May the road rise up to meet you, may the wind be ever at your back. May the sun shine warm upon your face and the rain fall softly on your fields. you have continuously been a group of successful students. You have shined well in both academic matters and extra-curricula activities.

May you achieve success always, may your eagerness to learn and do better never end. You have a bright future ahead, let nothing deter you from achieving the best, Farewell to you guys



PLACEMENT CORNER



VIMAL JYOTHI ENGINEERING COLLEGE ,CHEMPERI
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Placed Students 2017-21 Batch

  Freethika B Dev	  Sanjay Prakash	 Rohith Sreenivasan	 Vishak Gireesh	  Freethika B Dev	 Vimal P	 Neubin Sebastian	  Freethika B Dev	
  Anagha Premraj	  Mahima K V	 Kavya Prasad	  Megha Mahesh	 Arya T P	 Keerthana Vinod	  Bibin P S	 Mathew P M	
  Freethika B Dev	  Vimal P	 Ridhusha	  Sandra Venugopalan	  Hirshika C	  Abhirami Venugopal	 Fathimathul Husna		
  Anajith P K	 Vimal P	 Megha Mahesh	 Anagha Premraj	 Keerthana Vinod	 Neubin Sebastian	  Vimal P	 Anagha Premraj	  Abhirami Venugopal

BATCH TOPPERS

2017-21 BATCH

VIMAL JYOTHI ENGINEERING COLLEGE
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
Congratulations
ECE 2017-2021 BATCH TOPPERS

 ARYA T P CGPA- 9.26	 MEGHA MAHESH CGPA- 8.85	 DEEPTHI JOSEPH CGPA- 8.75
--	--	--

Made with PosterMyWall.com

CONGRATULATION

INDIA BOOK OF RECORDS



Mr. Yethul Sidharth, S6 ECE is appreciated by the India book of Records for making the portraits of Twelve Chief Ministers of Kerala including E.M.S. Namboodiripad, Pattom A.Thanu Pillai, R.Sankar, K.Karunakaran and P.K.Vasudevan Nair on a single A4 sheet.



WEBINAR PARTICIPATION

- **Dr. Anto Sahaya Dhas** has attended IEEE Sponsored Three Days National Level Workshop on RESEARCH METHODOLOGY conducted by Annai Vailankanni College of Engineering during 2nd June to 4th June, 2021
- **Dr. Roshini T V, Ms. Lekshmy S, Ms. Shimna P K, and Ms. Sudarshana Vijayan** successfully completed 2 weeks Instructor led live online Faculty development program on Artificial Intelligence & Machine Learning Using Python held during 28th June to 9th July 2021.
- **Dr. Anto Sahaya Dhas** has attended National level webinar on “AWARENESS OF COVID & IMPORTANCE OF VACCINATION” organized by Annai Vailankanni College of Engineering in association with Indian Medical Association on 12th June 2021

- **Ms. Jerrin Yomas, Ms. Bindu Sebastian, Mr. Jithin James and Ms. Sudarshana Vijayan** has attended 3 days FDP On Deep Learning for image and video applications sponsored by KTU organized by the ECE Dept. of LBS College of engineering Kasargod from 15-6-21 to 17-6-21
- **Dr. Reema Mathew** attended AICTE Training and Learning (ATAL) Academy Online FDP on "Deep Learning for visual Computing " from 2021-7-12 to 2021-7-16 at Sri. Krishna College of Engineering and Technology.
- **Dr. Anto Sahaya Dhas** has attended Three Days National Webinar Series on " Modern Trends in Environment" conducted by Annai Vailankanni College of Engineering during 16th June to 18th June, 2021.
- **Ms. Grace John M** has attended 3 days Online Faculty Development Program on "Multidisciplinary Applications of MATLAB" held under the auspices of Department of Electronics and Communication Engineering, Universal Engineering College, Vallivattom, Thrissur from 22nd July 2021 to 24th July 2021
- **Ms. Bindu Sebastian and Ms. Sudarshana Vijayan,** attended AICTE Training and Learning (ATAL) Academy Online FDP on 'Virtual and Augmented Reality for Robotics' from 2021-7-12 to 2021-7-16 at Vimal Jyothi Engineering College.
- **Ms. Grace John M and Ms. Ann Mathew** successfully completed 1 weeks Instructor led live online Faculty development program on Deep learning using Medical Data held during 12th June to 16th July 2021.
- **Dr. Anto Sahaya Dhas and Mr. Jithin James** has attended 3 days KTU sponsored online FDP on 'Recent Trends in Electric vehicles and System design Organized by department of EEE Sahradaya College of Engineering from 7-6-21 to 9-6-21.

PUBLICATIONS

- **Dr. Jayesh George, Dr. Anto Sahaya Dhas, Binil Kumar and Adarsh K S** published a paper titled "Malignancy detection on mammograms by integrating modified convolutional neural network classifier and texture features", *International Journal of Imaging Systems and Technology*, Impact factor: 2.0 and ISSN: 1098-1098
- **Dr. Jayesh George, Dr. Anto Sahaya Dhas and Mr. Nabeel Hashim** published a paper titled "Weapon detection using ML For PPA", International conference on Intelligent Computing Information and Control System ICCICS 201, 202-03 July 2021
- **Mr. Vinod J Thomas, Dr. Anto Sahaya Dhas** published a paper titled "Recent trends in epileptic seizure detection using EEG signal: A review. Conference paper, Publisher - Springer, date of publishing 15-06-2021. It is a part of advances in intelligent systems and computing book series, volume 1318, pages 509-525. DOI
- **Ms. Lekshmy S, Dr. Jayesh George M and Ms. Ranjith C R** published a paper titled 'Text Detection and Script Identification from Images using CNN' in International Journal of current engineering and scientific research

RESOURCE PERSON

WEBINAR

Dr. Anto Sahaya Dhas as a speaker in Aquinas College, Edacochin on the topic "Mobile Technology Transformation: 1G to 5G" on 15.06.21

EVENTS CONDUCTED

ALUMNI INTERACTION

VIMAL JYOTHI ENGINEERING COLLEGE
DEPARTMENT OF ECE

This session's unique Alumni Interaction

NIMMY S MENON (2007-11 BATCH)
Vice President
Digital Platform & Applications
Marsh Digital
Marsh McLennan Group of Companies
Phoenix, USA

Click to Join the Meet

Add to Calendar

PLATFORM
Google Meet

PARTICIPANTS
S4 ECE

COORDINATOR
Ms. Grace John M
Asst. Professor

JUNE 04 10:00

WEBINAR ON
Alumni Interaction

abin.mathew@vjcet.ac.in

The Electronics and Communication Department has conducted an Alumni interaction for S4 ECE students on 04-06-2021 by **Ms. Nimmi S Menon** (2011 Pass out) Vice President Digital Platform & Applications Marsh Digital Marsh McLennan Group of Companies Phoenix, USA.

The Electronics and Communication Department has conducted an Alumni interaction for S2 ECE students on 11-06-2021 by **Mr. Sachin Thomas** (2011 Pass out) Lead Engineer, Cisco India Pvt.Ltd.

PLATFORM
Google Meet
<https://meet.google.com/jkk-djci-mgy>

PARTICIPANTS
S2 ECE Students

CO-ORDINATOR
Mr. Binil Kumar
Assistant Professor

JUNE 11 2021
10:00 AM

VIMAL JYOTHI ENGINEERING COLLEGE
CHEMPERI, KANNUR

DEPARTMENT OF ELECTRONICS AND COMMUNICATION

Alumni Interaction

MR. SACHIN THOMAS
Lead Engineer
Cisco India Pvt. Ltd.

UPCOMING EVENTS

The International Conference on IoT, Computer Communication, Electrical and Electronics Technology (ICICCEET-2022) will be held as online mode (**Vimal Jyothi Engineering college, Kannur, Kerala, India**) on **4th & 5th March 2022**. The objective of ICICCEET-2022 is to present the emerging trends related to Electronics, Communication, Computer science, Electrical Engineering and their allied fields. The aim of the conference is accelerate basic science, innovation for the development and application of technology. It also aims to provide a platform to the researchers from both academia as well as industry to meet and share cutting-edge development in the IoT, Computer Communication, Electrical and Electronics in line with the conference theme **“Technology for Sustainable Future”**.

PROGRAM EDUCATIONAL OBJECTIVES (PEO)

.....

1. Graduates will have successful career in the field of Electronics and Communication Engineering and allied sectors
2. Graduates will have the ability to pursue higher studies and research
3. Graduates will demonstrate entrepreneurial skills to develop innovative products and services
4. Graduates will adapt to different roles in global working environment by respecting diversity and professional ethics



Designed by Abin Mathew Sali (S6, ECE)