

NEXUS



DEPARTMENT OF ECE, VIMAL JYOTHI ENGINEERING COLLEGE

VISION

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

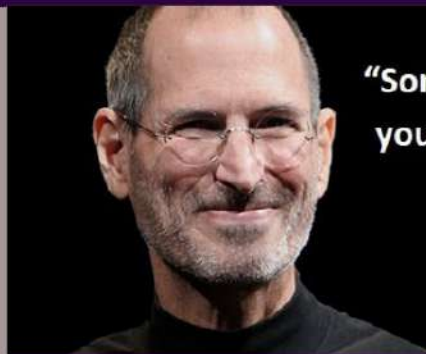
MISSION

M1. To provide quality education for the students in the field of Electronics and Communication Engineering.

M2. To educate students about professional and ethical responsibilities and train them to build life skills for their career development.

THIS ISSUE

- HOD'S DESK.....Page 1
- JYOTHIRGAMAYAPage 2
- BOOTCAMP BROCHURE.....Page 3-4
- PUBLICATIONS.....Page 5
- EVENTS CONDUCTED.....Page 5-6
- WEBINAR PARTICIPATION.....Page 7
- ARTICLE.....Page 8-10
- PTA MEETING.....Page 11
- PLACEMENT CORNER.....Page 11



“Sometimes life is going to hit you in the head with a brick. Don't lose faith.”

— Steve Jobs

HOD'S DESK

It gives me immense pleasure to note that another edition of NEXUS is ready for launch. We have witnessed an unprecedented growth in the field of electronics for the past many decades and all these developments are essentially aimed to make human life more comfortable. Tremendous developments are there in the field of communication, microelectronics, automotive electronics, health-care and so on which are closely linked with the common man's life. Plenty of opportunities as well as challenges are awaiting. “Change is the only constant” is true and now a “manthra” in the exciting field of electronics. As Electronics Engineers, It is the need of the time to follow these changes and understand the state-of-the-art technology in order to be updated in the domain. As Michael Faraday said “The five essential entrepreneurial skills for success are concentration, discrimination, organization, innovation and communication.” I wish all advance happy and prosperous New Year 2021.

Prof. Dr. Anto Sahaya Dhas

HOD



JYOTHIRGAMAYA



VIMAL JYOTHI

GROUP OF INSTITUTIONS

CHEMPERI - KANNUR



Jyothirgamaya 2020

Inauguration of Academic Year

ജോതിരഗമയ 2020

Inauguration : Mar. George Njaralakkatt

zoom
Video Conferencing

30th November 2020 **LIVE** from 08:15 AM

Vimal Jyothi Engineering College, Chemperi welcomed our first year students of 2020-24 batch with an online celebration of glory and pride on 30-11-2020. The Archbishop of Thalassery, Mar George Njaralakkattu graced the occasion as the Chief Guest. The Chairman of the institute, Fr. James Chellamgot welcomed all the freshers. Dr. Benny Joseph, Principal, VJEC, presided the event. The management representatives, HODs, staff, students and parents participated in the online event.

BOOTCAMP SCHEDULE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

BATCH :(2020-24) ECE

DATE	TIME	SPEAKER	PROGRAME/TOPIC
05/10/2020 MONDAY	Session I (9.30 a.m - 10.30 a.m)	Dr.ANTO SAHAYA DHAS (PROFESSOR &HOD ECE)	INTRODUCTION
	Session II (11.00 a.m- 12.00 p.m)	Mr.SHIJITH THOMAS	Chemistry
06/10/2020 TUESDAY	Session I (9.30 a.m - 10.30 a.m)	Mr.SHIJITH THOMAS (ASSISTANT PROFESSOR CHEMISTRY,VJEC)	HOW TO ACHIVE YOUR GOALS
	Session II (11.00 a.m- 12.00 p.m)		PHYSICS
07/10/2020 WEDNESDAY	Session I (9.30 a.m - 10.30 a.m)	Mr.SEBI JOSE (MANAGING DIRECTOR ,STARWING HR CONSULTANCY PVT.LTD,KERALA)	HOW CAN YOU GET IN TO A JOB AFTER YOUR 4 YEARS
	Session II (11.00 a.m- 12.00 p.m)		MATHS-PROBABILITY
08/10/2020 THURSDAY	Session I (9.00 a.m - 10.00 a.m)	Mr.THOMAS JOHN (ASSISTANT PROFESSOR,VJIM)	HOW TO BE COMPETENT ?
	Session II (11.00 a.m- 12.00 p.m)		MATHS-DIFFERENTIATION
09/10/2020 FRIDAY	Session I (5.30 p.m - 06.30 p.m)	Mr.SHIJIN K V (JUNIOUR ANDROID DEVELOPER ALISONS INFORMATICS PVT.LTD)	BASICS OF ANTROID DEVELOPMENT
	Session II (11.00 a.m- 12.00 p.m)		MATHS-INTEGRATIOIN
12/10/2020	Session I (9.30 a.m - 10.30 a.m)	Mr.DEEPAP JOSEPH (TRAINER ,STATE CIVIL SERVICE ACADAMY),VJEC ALUMNI	IMPORTANCE OF APTITUDE IN JOB MARKET
	Session II (11.00 a.m- 12.00 p.m)		MATHS-D E
13/10/2020 TUESDAY	Session I (9.30 a.m - 10.30 a.m)	Mr.JUSTINE M AUGUSTINE (PLACEMENT OFFICER,VJEC)	PLACEMENT OPPORTUNITIES FOR B.TECH STUDENTS
	Session II (11.00 a.m- 12.00 p.m)		Chemistry
14/10/2020 WEDNESDAY	Session I (9.30 a.m - 10.30 a.m)	MR.SHONE JOSE (ASSOCIATE MANAGER,COURSE 5 INTELLIGENCE) ,VJEC ALUMNI	ENGINEERING STUDENT LIFE
	Session II (11.00 a.m- 12.00 p.m)		MATHS-MATRICES

15/10/2020 THURSDAY	Session I (9.30 a.m - 10.30 a.m)	Dr.JAYESH GEORGE (ASSOCIATE PROFESSOR ECE,VJEC)	SCOPE OF ELECTRONICS AND COMMUNICATION ENGINEER ON CANADA,AUSTRALIA,ENGLAND, GERMANY AND AMERICA MIGRATION
	Session II (11.00 a.m- 12.00 p.m)		MATHS-TRIGONOMETRY
16/10/2020	Session I (9.30 a.m - 10.30 a.m)	Mr.SUNIL PAUL DIRECTOR- CHRIST CENTER FOR INNOVATION AND OPEN LEARNING CHRIST COLLEGE OF ENGINEERING IRINJALAKUDA	HOW TO BUILD YOUR FIRST ROBOT
	Session II (11.00 a.m- 12.00 p.m)		PHYSICS
27/10/2020 TUESDAY	Session I (9.30 a.m - 10.30 a.m)	Mr.TOMLIN MATHEW (SYSTEM OPERATIONS SENIOR ANALYST,WELLS FARGO,BANGALORE)	"AFTER B.TECH/ ECE"-CAREER OPPORTUNITIES
28/10/2020 WEDNESDAY	Session I (9.30 a.m - 10.30 a.m)	Mr.ARUN BABU S (CHIEF OPERATING OFFICER ,BITZ FORGE TECHNOLOGIES PVT.LTD,KOCHI)	FAMILIARIZATION OF EDA TOOLS
30/10/2020 FRIDAY	Session I (9.30 a.m - 10.30 a.m)	Mr.SHAHIL T P (SOFTWARE TOOL DEVELOPER,SAUDI ARAMCO)	HARDWARE OVERWRITING THE SOFTWARE USAGE IN MODERN ERA
02/11/2020 (MONDAY)	Session I (9.30 a.m - 10.30 a.m)	Mr.JYOTHISH FRANCIS (TECHNICIAN,DEPARTMENT OF ECE,VJEC)	INTRODUCTION TO CCTV
03/11/2020 (TUESDAY)	Session I (9.30 a.m - 10.30 a.m)	Dr.D.BENET BOSCO DHAS (CEO, 30M GENOMICS PVT.LTD ,HYDERABAD)	ROLE OF ELECTRONICS ENGINEERS IN MEDICAL SCIENCE
04/11/2020 (WEDNESDAY)	Session I (9.30 a.m - 10.30 a.m)	Mrs. MARY SABU (PRINCIPAL ,RAJAGIRI SEASHORE CMI SCHOOL,VYPIN)	"COLLEGE:THE LAST BUS TO YOUR LIFE DESTINATION. "
05/11/2020 (THURSDAY)	Session I (9.30 a.m - 10.30 a.m)	Mr.JOBIN FRANCIS (RESEARCH SCHOLAR ,NIT CALICUT)	INTRODUCTION TO IMAGE PROCESSING & ITS APPLICATIONS
06/11/2020 (FRIDAY)	Session I (9.30 a.m - 10.30 a.m)	Ms.SHAMLIN SUNNY (INNOVATION MANAGER,INNOVATION THINK TANK,SIEMENS HEALTHCARE PRIVATE LIMITED)	JOURNEY OF STUDENT TO PROFESSIONAL

PUBLICATIONS

1. **Mr. Manoj K C**, Presented and published a paper titled “Design and simulation of 3.5 GHz hybrid photonic antenna system for 5G applications” at International Conference on Microelectronics, Signals and Systems 2019 and published by AIP Publishing: AIP Conference Proceedings 2222, 030021 (2020); <https://doi.org/10.1063/5.0004642> in collaboration with Department of Electronics Engineering, Anna University, MIT Campus, Chennai, India
2. **Mr. Vinod J Thomas & Dr. Anto Sahaya Dhas** has presented a paper on recent trends in epileptic seizure detection using EEG Signal: A review in an international conference by Springer held at RVS Technical campus Coimbatore. Date: 19th and 20th November 2020.

EVENTS CONDUCTED

➔ Webinar on Build Your First APP with Java and KOTLIN: 17-10-2020

The Electronics and Communication Department has conducted a webinar on ‘Build Your First APP with Java and KOTLIN in association with IETE Vimal jyothi Chapter on 17-10-2020 by Mr. Shijin K V Junior Android Developer, ALISONS Informatics Pvt Ltd.



➔ Webinar on segmentation of natural images using clustering approach: Principles and applications: 31-10-2020

The Electronics and Communication Department has conducted a webinar on ‘Segmentation of natural images using clustering approach: Principles and applications in association with IETE Vimal Jyothi Chapter on 31-10-2020 by Mr. Jobin Francis ,Research scholar NIT Calicut.



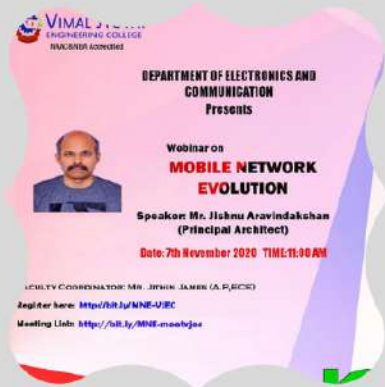
Webinar on Career options for Electronics and Communication Engineers: 06-11-2020

The Electronics and Communication Department has conducted a webinar for S5 ECE students on Career options for Electronics and Communication Engineers on 06-11-2020 by Mr. Tomlin Mathew, System Operations Senior Analyst Wells Fargo, Bangalore.



Webinar on Mobile network evolution: 07-11-2020

The Electronics and Communication Department has conducted a webinar on Mobile network evolution 'on 07-11-2020 by Mr. Jishnu Aravindakshan, Principle Architect.



Webinar on Higher Studies Opportunities in India and Abroad: 21-11-2020

The Electronics and Communication Department has conducted a webinar on 'Higher Studies Opportunities in India and Abroad in association with IETE Vimal Jyothi Chapter on 21-11-2020 by Ms. Dona Joseph, Research scholar, SRM Chennai & Shizuoka University, Japan





WEBINAR PARTICIPATION

1. **Dr.Anto Sahaya Dhas** has attended one week AICTE sponsored STTP on Machine Learning and IoT Technologies for Environmental Issues” from 26th to 31st October 2020
- 2.**Dr.Roshini T V** has participated AICTE sponsored six days short term training programme on Data analytic in Biomedical engineering organized by Department of Biomedical Engineering Faculty of Engineering Karpagam academy of higher education from 23rd to 28 November 2020.
- 3.**Ms. Bindu Sebastian** has participated in the national webinar on Industry needs from academia organized by CSI student chapter ,JIS College of Engineering West Bengal in association with Computer society of India Kolkata Chapter on 20th October 2020
- 4.**Ms.Shimna P K** has participated AICTE sponsored six days short term training programme on Data analytic in Biomedical engineering organized by Department of Biomedical Engineering Faculty of Engineering Karpagam academy of higher education from 23rd to 28 Novemeber 2020
- 5.**Ms.Grace John M** has participated a three days faculty development programme on Role of communication engineering in 5G technologies organized by the department of Electronics and Communication Engineering St.Martin’s Engineering College Dhullapally, Secunderabad
- 6.**Ms.Lekshmy S** has participated AICTE sponsored six days short term training programme on Data analytic in Biomedical engineering organized by Department of Biomedical Engineering Faculty of Engineering Karpagam academy of higher education from 23rd to 28 Novemeber 2020.

Resource Person from Department:

Dr. Jayesh George M

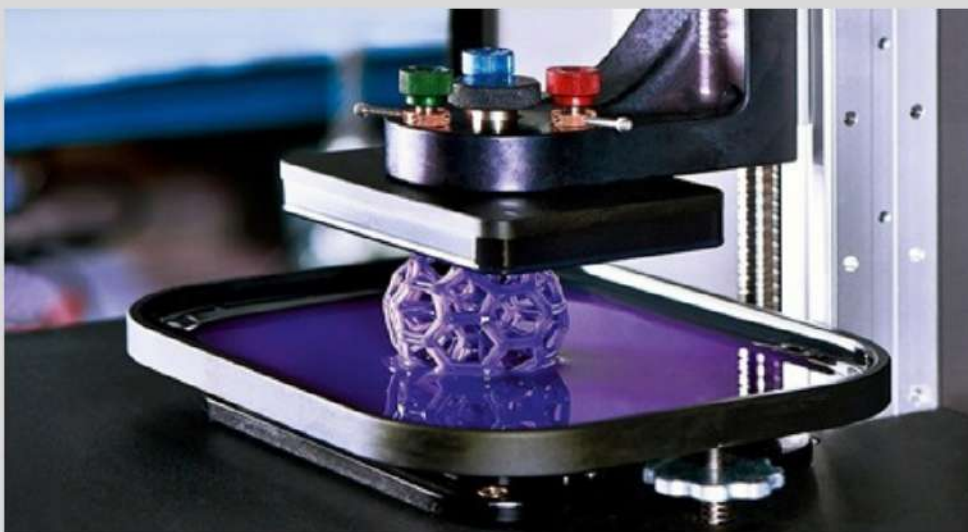
Audience: S1 ECE students

Topic: Opportunities of EC Engineer on Canada & Australia Migration

Date & Time :Thu Oct 15, 2020 9:30am – 10:30am

**ARTICLE****3D PRINTING**

3D printing is the construction of a three-dimensional object from a CAD model or a digital 3D model. The term “3D Printing” can refer to a variety of processes in which material is deposited, joined or solidified under computer control to create a three- dimensional object, with material being added together, typically layer by layer. It creates objects by printing layers of material based on digital models



It is a disruptive technology because it has changed the way items including plane spare parts and prosthetic arms are produced. Buildings are being built with zero human-labour, scientists are experimenting with the use of live cells to one day be able to produce human organs, while innovation in the field could allow astronauts to print spare parts for complex mechanical and electronic equipment in space.

Vimal P
S7 ECE



ROLE OF TECHNOLOGY IN COVID – 19 PANDEMIC

COVID-19 has proved that technology innovations have been helping in managing the epidemic in a systematic manner. Advancement in technology is steadily progressing and has come to the aid of humanity amidst the pandemic. Some of the ways in which technology has impacted our lives in the current COVID-19 pandemic are as follows:

Bringing classrooms to our homes :

Around 191 countries have either implemented or announced the closure of schools and universities, which has directly impacted close to 1.57 billion students. Most of the educational institutions have started to offer their courses online to make sure education is not disrupted due to the pandemic. Platforms such as Google Meet and Microsoft Teams enable learning within the comforts of home.

Online entertainment:

COVID-19 has completely transitioned how content is being generated, distributed, and streamed. Online streaming of live shows and concerts have gained traction across the world. Several film production companies have also been releasing their movies via Over The Top (OTT) platforms such as Amazon Prime Video, Hotstar, Netflix, etc.



Contactless Online Deliveries:

The online grocery market witnessed tremendous growth during the pandemic due to the soaring demand amongst consumers. People prefer to place their orders online. The no contact delivery policy resulted in a significant increase of new users who are resorting to online apps for grocery deliveries

Contact Tracing Applications :

Contact tracing apps like Aarogya Setu have assisted in tracking the COVID-19 spread. Technology has also helped in educating people about the entire situation and reminding them to take the necessary precautions. Telecom operators such as BSNL, Jio, Airtel, etc. have used caller tunes for spreading awareness about the pandemic.

Ensuring implementation of COVID-19 guidelines :

Facial recognition technology has helped in identifying people accurately even when they are wearing a mask. This feature helps in identifying infected individuals who do not follow the rules and step out of their homes despite being quarantined. Technology has also helped in monitoring the movement of quarantined people using CCTV cameras.

Sandra Venugopalan
S7 ECE





PTA MEETING

With the pandemic prevailing the department year wise PTA meeting held between 21st October and 23rd October using Google meet online platform. Dr. Anto Sahaya Dhas HOD ECE gave the welcome speech, Principal Dr. Benny Joseph addressed the parents. Tutors from each batch coordinated the respective meetings. Parents are satisfied with the academics.

PLACEMENT CORNER

- Rohith Sreenivasan, Sanjay Prakash ,Vyshakh Gireesh of S7 ECE (2017-21 Batch) cleared the TCS Ninja test
- Hrishika S of S7 ECE has been shortlisted for interview in guide house recruitment facilitated by KTU

PROGRAMME 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

EDITORIAL BOARD

Mrs. Grace John M (Assistant Professor, ECE)

Ms. Sudharsana Vijayan (Assistant Professor, ECE)

Student Editor : Sanjay Prakash (S7, ECE)