

# **CIT Sandwich Polytechnic College, Coimbatore -641 014**

## Inside...

About the College

**Mission and Vision** 

Messages from Management and Principal

#### Department activities ...

Mechanical Engineering (Sandwich) Mechanical Engineering Instrumentation and Control Engg Chemical Engineering Electronics & Communication Engg Computer Engineering First Year Engineering

#### Webinar for students

Online Webinar on Campus to Corporate Online Webinar on Maatrangalum... Eaetrangalum

#### Webinar for Faculty member

Online Webinar on 1. Improving Cognitive Domains in Students during Online Learning 2. CFD & ITS Applications 3. Real Time Application using Machine Learning

#### Sponsored Programmes...

NSS- Activities Unnat Bharat Abhiyan AICT - ISTE - Online FDP

#### Institute-Industry Interactions...

Memorandum of Understanding

Placement ... Placement Training Programme Recent Placements

## Student Corner ...

## About the College

CIT Sandwich Polytechnic College is one of the institutions the run bv V. Naidu Rangaswamy Educational Trust founded in 1955 by Late. Sri. V Rangaswamy Naidu for the of promotion Technical Education and Industrial Training in Tamil Nadu. The Polytechnic was started in the year 1961 and is located near Coimbatore Civil Aerodrome on the outskirts of Coimbatore on the Avinashi Road. CIT Sandwich Polytechnic College is а Government Aided Institution approved by AICTE.

## Vision

The Institute endeavors to inculcate the students with technical skills, professional ethics and making them socially responsible citizens to cope up with the current and upcoming technical challenges faced by our country.

## **Mission**

The Institute imparts quality education and training, to carve the students by providing technical knowledge, skills for employability and entrepreneurship with social responsibility.

#### Messages from Management and Principal From Correspondent's Desk

We impart education to match the advancement in technology and globalization. As Aristotle's words, heart should be educated before the mind is educated. Otherwise

education is not an education at all. Marching the students ahead with moral values and principles is an important task. I applaud the team members for making this Endeavour to instill the qualities, creativity and imagination.



#### From Director's Desk

The college follows a unique pedagogy to ensure its students in having the opportunity to face the rigors of ever-changing demands of real world situations. It is again

supplemented by on-going and regular interaction with business and industry leaders, providing the students a practical platform to assess and experience the application and effective results of what is taught as concepts in their classrooms.



#### From Secretary's Desk

The biggest challenge we all face today is to prepare the students for a globalized world. In fact students do not have the same talents and so each one will achieve success differently. So the educators being facilitators

should find the specific filed of interest and encourage the students. I solicit the students too honestly to do their best that they can, which could not stop from being success.

#### From Principal's Desk



We live today in a world that is so very different from the one we grew up in, the one we were educated in. The world today is changing at such an accelerated rate and we educators need to pause and reflect on this

entire system of education. These are the factors that motivate the students to go through continuous process of reflection.



#### From Principal's in-charge Desk

It is a matter of great pride and satisfaction to bring out the Newsletter for the period from October 2019 to March 2020. The College has made tremendous

progress in all areas of academic, non-academics, capacity building relevant to staff and students. This edition of the Newsletter reports the significant activities carried out by Students and Faculty in the areas of Teaching and Learning, Co-curricular and Extracurricular activities.

## Department activities ...

#### Mechanical Engineering (Sandwich)

Department of Mechanical Engineering (Sandwich) conducted various events such as Group Discussion, Placement Activities and Paper Presentation as the association events for the department students to bring students out of stage fear and also to improve their communication skills during the academic year 2020-2021. Events were conducted to pave an opportunity to learn about a core subject and develop effective presentation skills. Students Participated in various events to develop their skills.



#### **Mechanical Engineering**

To encourage the student's, to participate in events like Paper Presentation, Placement Activity, and Group Discussion activity were planned and conducted as an association activities for the students of Mechanical Engineering in the online & offline mode which would be helpful for the students to attend their online interviews. Students developed their personality skills, and gained information on techniques of personality development, Interpersonal & Communication Skills, etc.



#### **Chemical Engineering**

Department of Chemical Engineering celebrated NATIONAL SCIENCE DAY on 1st March 2021 in the Smart Digital Classroom. National Science Day is celebrated in India on 28th February each year to mark the discovery of the Raman Effect by Indian physicist Sir C. V. Raman. The final year student MR.K.R.PRANAV BALAJI (DChE) presented a seminar on 5G Technology. He started his presentation with the theme of National Science Day 2021-"Future of STI: Impacts on Education, Skills and Work". He discussed the next generation wireless network technology that is expected to change the way people live and work



## Instrumentation and Control Engineering

Association of Instrumentation and Control Engineering Department conducted the activities like Paper Presentation, Talent Day, Quiz, Fun with Valuator, Identify Me etc. Career awareness was conducted to develop complete understanding of possible career fields and opportunities, factors that can influence a job's outlook and the necessity of education to be successful. Participants were encouraged with certificates in the Valedictory Function.



#### **Computer Engineering**

Department of Computer Engineering Association conducted following activities during the Academic year 2020-2021. Quiz, group discussion, paper presentation and Placement Activity. Activities were planned and executed to enhance problem solving skills, creativity, critical thinking skills etc.



#### **Electronics and Communication Engineering**

Department of Electronics and Communication Engineering conducted Hands of Training in Arduino, Technical Test (Aptitude Test) to create awareness about their skills, knowledge, ability and personality which would be assessed by the organization, Paper Presentation, Placement Activity etc.



## Automobile engineering

Department of Automobile Engineering Association conducted following activities during the Academic year 2020-2021. Quiz, group discussion, paper presentation and Placement Activity. Activities were planned and executed to enhance problem solving skills, creativity, critical thinking skills etc.



#### **First Year Engineering**

## Orientation programme

First year Orientation programme was organized on 15th and 16th of October 2020. Heads of the Department hosted the program and briefed the students about the rules and regulations of the institute and requested the parents to understand and abide by the institutional rules and norms. Information about the academic design of the first year Diploma course and norms to be followed were explained. Next day sessions on Motivational Speech, Need for Communication Skill, Placement Activities and Yoga and meditation were organized. Resource Person Dr.Kavitha Prabhaharan, Assistant Professor, NGP Institute of Technology, Dr.Samuvel Ceaser Pickens, HOD/Commerce, Dr.SNS Rajalakshmi College of Arts and Science, Mrs. Nandhini.M, SKY Assistant Professor, World Wide Community Service, Coimbatore Zone, Mr.Jayaprakash, HOD/Mech, CITSPC, Mr.Vijayakumar, HOD/SWC, Placement Officer, CITSPC, Mr.Karthikeyan, Lecturer/ICE, Assistant Placement Officer, CITSPC guided and motivated the first year students



#### **Online Quiz**

Department of Humanities (English) organized Online Quiz on English Grammar (Basics) on the Virtual model for the school students under the guidance of principal. The students of various schools enthusiastically participated and showcased their brilliance by rapidly answering the questions. They found this competition very informative. E-Certificate were issued for the participants who secured above 40%.

## Webinar for Students

Webinar on Campus to Corporate



Webinar entitled "Campus to Corporate Are you ready!!! " was organized on 01.10.2020 for the final students of all stream of study those who opt for workplace atmosphere. Resource Person Bhayalakshmi.S.B, Behavioral Training Consultant, Certified Psychometric Assessor, contributed information on upgrading ones skills, personality traits, and how to succeed in career. Around 100 students got benefitted through this program. Participation certificates were issued to the students

#### Webinar on Maatrangalum... Eaetrangalum



Department of Science and Humanities organized a Webinar for First Year students as a Association activity. Chief Guest Mrs.Bharathi Sathyanarayanan, Counsellor & Motivational Speaker, Madurai hosted a program entitled "Maatrangalum... Eaetrangalum". She motivated the students with golden words about barriers and hurdles faced during the adolescent age and the ways to overcome it.

#### Webinar for Faculty Members

Online Webinar on Overview of DevOps and its Best Practices



#### 16 JULY,2020, THURSDAY IST: 3:00 PH TO 4:00 PH

An online webinar "Overview of DevOps and its Best Practices" organized for faculty members on 16-7-2020 from 3.00 pm to 4.00 pm. More than 80 members attended the programme. Our Guest Speaker Mr.Chandru K Gownden, Technical Architect & Lead Engineer, Global Banking, Standard Chartered Bank, Singapore delivered the key address

## Online Webinar on CFD & its Applications

Webinar was conducted by Department of Mechanical Engineering on 2nd July 2020 (Thursday) at 10.30 am through Google Meet Platform, A Faculty members around 70 from various Engineering and polytechnic attended this programme. Dr.K.Ramachandran, Associate Professor, Departments of Physics, Bharathiar University, Coimbatore, presided and explained the basics and application of CFD to the faculty members



# Improving Cognitive Domains in Students during Online Learning



Webinar entitled "Improving Cognitive Domains in Students during Online Learning" organized for the faculty members on 6-7-2020. More than 90 members attended the programme. Our Guest Speaker Mr.Jerus Albert Britto, Assitant Professor/Psychology, Government Arts College, Coimbatore delivered the key address.

# Online Webinar on Real Time Application using Machine Learning

Webinar on "Real Time Application using Machine Learning" was organized for faculty members on 21-7-2020 at 10.30.

(Government Ai	POLYTECHNIC COLLEGE ded Institution – Estd. : 1961) batore – 641 014
Department of Electronics ar	nd Communication Engineering
Invites you	for a Webinar
	On
"Real Time Applications	Using Machine Learning"
Platform	Resource Person:
Platform Google Meet	Resource Person:
	Resource Person:
	Resource Person:

More than 70 members attended the programme. Our Guest Speaker Mr.Dinesh Ponnuswamy, AI Developer, SAI Incubation, Coimbatore delivered the key address.

## NATIONAL SERVICE SCHEME

Activities	Date	Particip ants
Pm - Rashtriya Swachhata Kendra(RSK) launching	08.08.2020	100
Independence day 2020 - online quiz	15.08.2020	156
NSS Day celebration	24.09.2020	60
151 <sup>th</sup> gandhi Jayanthi Celebration	02.10.2020	75
First year orientation Programme	15.10.2020	214
Aids Awareness Programme	01.12.2020	45
National Mathematics Day online quiz	22.12.2020	133
Tamil Nadu state aids control society RRC - Quiz	30.12.2020	85
National Youth day Celebration	12.01.2021	93
National Voters day Pledge	25.01.2021	65
Women's day Celebration	08.03.2021	30
Deworming Tablet Distribution	15.03.2021	800

NSS DAY CELEBRATIONS



#### GANDHI JAYANDHI CELEBRATION 2020





# UNNAT BHARAT ABHIYAN

Unnat Bharat Abhiyan (UBA) is one of the new Ministry of Human Resource initiatives by of India Development, Government for transformational change in rural development processes by leveraging knowledge institutions. it help is building the architecture of an Inclusive India. Under Unnat Bharat Abhiyan Scheme CIT Sandwich Polytechnic College has adopted five villages namely K.Madapur (CT), Edayarpalayam, Panappatti, Bogampatti and Kangayampalayam. To identify development challenges in rural area, household survey was taken on 16/03/2020 in K.Madapur (CT) and Kangayampalayam.



# Sponsored Programmes...

# Memorandum of Understanding

A MoU was signed between M/s. CIT Sandwich Polytechnic College and M/s. Samudra Pumps (India) Pvt Ltd Coimbatore. The MoU was signed by S ri. Mr. C. Manimaran, Head-Human Resources, M/s. Samudra Pumps (India) Pvt Ltd Coimbatore Coimbatore and Dr.R.Renuga, Principal i/c, CITSPC, Coimbatore.



# AICTE-ISTE - Induction / Refresher Programme

AICTE-ISTE Sponsored Induction/Refresher Online Faculty Development Programme on "The Power of Teacher - Student Relationships in Determining Student Success" was conducted by CIT Sandwich Polytechnic College through Google meet in three different phases Phase 1 : 01/02/2021 to 06/02/2021 Phase II : 22/02/2021 to 27/02/2021 Phase III : 15/03/2021 to 20/03/2021





#### Major topics of Programme

- Teacher Effectiveness
- Student Motivation
- Student Engagement
- Innovative Teaching methods
- Differentiated Learning

- Classroom Management
- Students physchology
- Gen Z learner engagement and
- motivation
- Innovative Teaching Pedagogical
- methods
- Happy teacher is a productive
- teacher'
- Emotional Intelligent skills
- Yoga and Meditation

# Eegin with end in the mind Correer Curdeer Senior students as guides/facilitatos Senior students as guides/facilitatos Senior students as guides/facilitatos Academic & non-ocademic roadmap



## **Placement Training**

Scaling up and reaching out to a much larger number of students in the most cost efficient manner as the objective M/S. Mahindra Pride School Chennai, conducted a training programme to upgrade the skills of our final year students of various stream of engineering from 11-03-2021 to 13-03-2021 at our campus. The trainers Dr.Ashwin, Mr.Christoper, Mr.Divakar, Mr.Boopathi Raj and Mr.Jayakumar entrusted with responsibility of ensuring placement goals.



## List of placement

The campus placement process also witnessed leading international recruiters like L& T, Apollo Tyres and KYB etc... Till 21<sup>th</sup> March, 2020, campus has witnessed 6 companies and selected 50 plus students of our college from various departments.

Date	Company Visited
06.02.2021	M/s. KYB Motor Cycle Suspensions India Pvt Ltd, Chennai
17.02.2021	M/s. Apollo Tyres Pvt Ltd, Chennai
22.02.2021	M/s. Bajaj Auto Pvt Ltd, Pune
24.02.2021	M/s. L&T, Coimbatore
27.02.2021	M/S Schneider Electric India Pvt Ltd, Coimbatore
13.03.2021	M/s. Sensedge Transportation Systems Pvt Ltd, Bangalore

## Student's corner

Student performance in Board Exam - April 2020

Depart	Sem	Name	%
DME (SWC)	VI	Akshay B	90.38
	IV	Cavishwar B	99.67
	II	Aruneshwaran A C	97.38
DME	VI	Nawin A	98.71
	IV	Ashokkumar M	99.43
	II	Kathiravan K	94.38
DICE	VI	Naveenkumar P	98.57
	IV	Santhosh V R	89.86
	II	Aasithyamadhavan S	95.88
DCHE	VI	Raghul J	97.86
	IV	Ashoksaravanan S	86.71
	II	Sankarraja T	92.50
DCE	VI	Sakthivel M	96.71
	IV	Krithika S K	90.00
	II	Deepak E S	94.75

DECE I	VI	Naveen Kumar G	96.14
	IV	Sandeep V	97.86
	II	Sanjay V	95.75
DAE VI IV II	VI	Ganesh Kumar J	98.86
	IV	Kannan B R	94.00
	Abhinivesh G	97.75	

# **Students Article**

AQUAPONICS



Aquaponics refers to a food production system that couples, aquaculture (raising aquatic animals such as fish, prawns, in tanks) with hydroponics [cultivating plants in water] in symbolic environment where by nutrient rich aquaculture water is fed to hydroponic grown plants, involving ammonia to nitrates

We did prototype for aquaponics system. Aquaponics means growing fish and plants together. Our prototype consists of fish tank, plant tray, biofilter, reservoir, water pump, irrigation tubes, fish and plants

- This system is very helpful and need less water than conventional way of farming.
- It is suitable for small scale farming for producing few essential leaves and vegetables
- In economic point of view it is not convenient and not much profitable in small scale farming
- In overall, water requirement is less
- If we increase the volume of farming with this method

in large scale , huge profit can be obtained within a short time.

- We can also implement green house farming along with the aquaponics system to reduce the plant diseases and to maintain the ideal conditions like temperature , humidity etc to increase the growth rate of plants
- It requires less maintenance, there's no weeding
- Aquaponics system doesn't require using fertilizer or chemical particles

Team of S.Ashok Kumar, B.Sharath, S.Barath & P.Punithakumar (Final Year Mechanical Engineering)

## தாய்மை

ஆணினத்திற்கே கிடைக்காத பாக்கியம் பெண்னினம் மட்டுமே பெற்று வந்த பரிசு! ஒரு கவளம் சோற்றைக் கூட - அதிகமாய் உட்கொள்ளாத வயிறு..! ஒரு உயிரையே உள்ளே வளரச் செய்யும் உலக அதிசயம்..! எவ்வளவுதான் விஞ்ஞான வசதிகள் வந்தாலும் கருவறையை விடப் பாதுகாப்பான அறையை குழந்தைக்கு தர யாருக்கு முடியும்..? இறைவனின் வல்லமைக்கு இதனை விட

சான்று வேண்டுமா..?

பத்து நிமிடம் சுமந்தால் தோள் கனத்துப் போகிறது பத்து மாதம் சுமந்தாலும் கருவறை கனப்பதில்லை..!

வலி என்றாலே உயிர் போகிறது என்பார்கள் - ஆனால்

இந்த வலியில் மட்டுமே உயிர் வரும்..!

குழந்தையாய்...

சிறுமியாய்...

குமரியாய்...

மனைவியாய் வளரும் உறவு

தாய்மையில்தான் தன்னிறைவு பெறுகிறது..!

கொஞ்சும் போது தனக்கும் ஆனந்தம் வருவதாலேயே தகப்பன் கூட குழந்தையை கொஞ்சுவது சாத்தியம்…! நள்ளிரவில் குழந்தையின் அழுகை எல்லோருக்கும் எரிச்சல் தாய்மைக்குத்தான் பதட்டம்..!

வாழைப்பழ தோலில் வழுக்கி விழுந்தால்

அனைவரும் சிரிப்பார்கள் - ஏன்

மனைவி கூட மறைவாய் சிரிப்பாள் - ஆனால்

சிரிக்காதவள் தாய் மட்டுமே...!

தாய்மையின் மகத்துவத்தை எத்தனை

தத்துவமாயும் தத்ரூபமாயும் சொல்லலாம் – எல்லாவற்றையும் விட

அல்லாஹ்வின் தூதர் அழகாய்ச் சொன்னார்கள்

#### தாயின் காலடியில் சுவர்க்கம் இருக்கிறதென்று…!

## Saran, Chemical engineering



Art by T.Sankarraja, 2<sup>nd</sup> Year Chemical Engineering

## **Editorial Board**

#### Patron:

Dr. V.Selladurai, Principal, CIT Institutions. Dr. R.Renuga, Principal i/c, CITSPC Chief Editor:

Dr. R. Thilagavathy, Lecturer/(English)

Editor & Artwork:

Sri. S.Dinesh Kumar, Lecturer/Mechanical Sri. S.Akilesh, Lecturer/Mechanical (SWC)

"Education is the manifestation of the perfection already in man"

Swami Vivekananda