

JCT COLLEGE OF ENGINEERING AND TECHNOLOGY  
PICHANUR, COIMBATORE

# SPARKLE



2016-2017

DEPARTMENT OF SCIENCE AND HUMANITIES

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## DEPARTMENT OF SCIENCE AND HUMANITIES

The Department of Science and Humanities successfully runs its courses since the beginning of the Institute. The Science and Humanities Department comprises of Mathematics, Physics, Chemistry and English departments.

The Department tries to provide the opportunities to appreciate the value of Science and focus on Listening, Speaking, Reading and Writing in a humanity scope, which help immensely in learning English and improve the students' caliber. The Department aims to generate all the facilities for advancement of quality research in its entire related field in order to face the global competitiveness. It also aims to introduce and update newer advanced courses for the technocrats.

### VISION

- To incline emerging professionals from Engineering towards a pragmatic learning on the **ground** of science and Humanities.
- To instill the spirit of creativeness through the absorption of epistemological discourse.
- To Serve Growing Graduates To Become an Outright Personalities With Boundless Wisdom

### MISSION

- To build pupil's brilliance and skill into the sublime thoughts.
- To render consistent Zealous to faculty and students for research and to illuminate the intrinsic thoughts.
- To Chisel students inner skills , innovativeness and scientific competence to embellish them as an Engineering intellectuals.

## **ENGINEERING PHYSICS LABORATORY**

The scope of Engineering Physics is defined to be correlated with nature and natural phenomenon, vast and immeasurable. The Engineering Physics Laboratory aims to understand the basic and advanced principles in the field of Physics and hands-on training to handle Engineering Physics – I, II. The physics Laboratory crafts the beginners to lay strong foundation in the fundamental techniques both in circuit and non circuit branches.

## **CRAFTSMANSHIP OF THE PHYSICS LAB**

- The design of the course is that the student will have exposure to various experimental skills which is very essential for an Engineering student.
- The laboratory unveils to various tools like Screw gauge, Vernier Calipers, Physical Balance, Spectrometer, CRO, Sodium Vapour Lamp, Mercury Lamp and Travelling Microscope Etc.,.

## **ENGINEERING CHEMISTRY LABORATORY**

The Department of Chemistry gives students the ample opportunity to perform experiments that explore important chemical concepts and introduce proper lab techniques and safety. The first year students are trained sufficiently to enhance their practical skills and are also provided hands on experience on sophisticated instruments. The Department also handles Environmental Science and Engineering course for the young engineers.

### **CRAFTSMANSHIP OF THE CHEMISTRY LAB**

- Flame Photometer
- Spectro Photometer
- Electronic Balance
- Digital Potentiometer
- Digital Conductivity Meter
- Digital pH meter

### **LANGUAGE LABORATORY**

Good communication skills are indispensable for the success of any professional. The English language, in particular, has become essential in the lives of technocrats who aspire to advance their careers anywhere in the world. The language laboratory is an audio-visual installation used as an aid in modern language teaching. It dwells on the LSRW(Listening , Speaking , Reading and Writing) training with support of HI- CLASS SW.

### **EXCEPTIONAL QUALITIES OF THE LANGUAGE LAB:**

- BROADCAST
- AUDIO BROAD CAST
- INTERCOM
- SCREEN CAPTURE & SCREEN PLAYBACK
- OBSERVE & REMOTE CONTROL
- STUDENTS DEMONSTRATION
- NET MOVIE
- GROUP TALK
- VIRTUAL RECORDER

## **ENGINEERING MATHEMATICS GENRE**

As Mathematics is “the language of Engineering”, The Department of Mathematics heralds applied and applicable mathematics to students of different domains of the Engineering streams to advocate their potential and rejuvenate practical ability of the Mathematics.

## **ENGLISH LITERATURE CLUB**

The **English Literature club**, involves in writing marathons for creative writing, poetry readings, and training students for seeking jobs. Students of all the departments have the chance of participation and the celebration of ELC is always popped up in an ostentatious manner

## REPORT ON INAUGURAL FUNCTION OF FIRST YEAR



The Inaugural function for the first year (2016) was held in JCT College of Engineering and Technology on 01.08.2016, Coimbatore. While Students have come to learn to lead in our growing Institution, witness 450 Students along with their parents who are on the stage of happiness and proximity of parental relationship. The auspicious function was presided by Principal Dr.G.Ramesh, Principal has spoken about the rules and regulation of college and basic ethical values of Engineering studies. In the Presidential address, Shri.S.A. Chairman captivated the Freshers through inspiring anecdotes. In addition to that Mr.L.Moorthi, PRO-JCT CET Who rendered motivational speech. The Welcome address was given by Dr.M.S.Balamurgan HOD (S&H) and Vote of thanks was given by Dr.Paramasivam HOD(Petro Chemical)

## SCIENCE DAY CELEBRATION



Every year since 1987, National Science Day is celebrated on February 28. On this day in 1928, Sir C.V. Raman discovered the famous “Raman Effect”, about scattering of light. He was awarded Nobel Prize in physics for this discovery in 1930. Main objective is to bring science in the forefront through celebration of the national science day (NSD), inculcate scientific temper and take pride in the scientific achievements of the country. The activities at JCT-CET for science day celebrations include debates, quizzes, exhibitions and lectures, etc. involving first year and other departments.





## YOGA DAY CELEBRATION



On the occasion of International Yoga day , the department of Science and Humanities organized yoga training for faculty members. The Yoga training was given by Yoga Masters of Vethathri Maharishi Foundation The Programme offers a few glimpses of Yoga's Concepts and its Spiritual impact against materialistic world.

## WORKSHOP / SEMINAR / PUBLICATION

The Department of Science and Humanities is successfully running its courses since the beginning of the Institute. The Department has organized many short term courses and workshops for the integrated personality development of engineering students. The Department organized Science Day Function to induce the innovative and creative skills. The Department focuses on Communication Skills in order to develop the student's communicative and presentation ability.

### PUBLICATION

S.No.	Name of the Faculty	Name of Workshops / seminars / conferences attended	Date & Venue
1	Dr.M.S.Balamurugan (Physics)	EPR studies of cu (II) ion loped in Hexaaquazinc Tetragua (glycine)zinc sulphate single crystals-International Journal of Scinetific research and Engineering -	2016- Volume 3-Issue 8 - Paper-10
		EPR studies of cu (II) ion loped in Triglycine actate single crystal – International Journal of Scientific research and Engineering	2016-Volume-3-Issue 8-Paper 11
		Single Crystal EPR and optical studies of cu (II)ion loped in Gamma Glyzine-International Journal of Scientific research and Development.	2016 September Issue
		Single Crystal EPR and Optical Studies of VO(II)ion loped in Triglycine acecate single crystal- Journal of Science and research (IJSR).	(IJSR)-2016 September Issue
2	V.Nirmaladevi. (Chemistry)	Removal Of Dyes And Heavy Metals From Aqueous Soutlion Using Ricinus Communis As An Adsorbent- A Review	JULY ISSUE EJPMR JOURNAL
3.	P.Saraswathi (Chemistry)	Removal Of Dyes From Aqueous Soutlion Using Chemically Modified Chitosn As An Adsorbent- A Review	JULY ISSUE JOCPR JOURNAL

4	Mrs Amirthavalli Asokan (Engl;ish)	Published paper in International Journal of Multifaceted and Multilingual Studies on Journey out of bondage in the selected novels of Toni Morrison	(July 2016)
		Published paper in Research Expo International Multidisciplinary Research Journal on Racial Affliction, women in Particular in Toni Morrison's The Bluest Eye.	(April 2015)

## STUDENTS VIEWS IN NEWS PAPER

Students of our College participated in the inter meet college debate , organized by the Indian Express.

# THE NEW INDIAN EXPRESS

YOU think

## TAKING THE SMART ROUTE



**Aishwarya K** - First year, Petrochemical Engineering

Apart from cleanliness, I would say that garbage disposal should also be a top priority. When the focus is on environment, the change is a sustainable development. Products that can be recycled must be done so and avoid excess of waste. Most of the garbage is dumped near the lakes. Steps must be taken to dump them outside residential areas. Coimbatore has always had water woes. The water we get is filled with impurities. Water treatment plants must be set up to supply safe water to all.



**Dheeraj D** - First year, Automobile Engineering

To make a city into a smart city, it should first look smart. It can happen through cleanliness and transportation. As Coimbatore connects to various cities by road, there must be two lanes to reduce traffic. The city has a potential to have some more flyovers. Sometimes, the traffic is unmanageable because the traffic lights don't work due to power failure. For this, solar panels must be used for traffic lights and the signals must be computerised. CCTV cameras must be fixed in all the signals. To make the city clean, we can implement underground drainage systems and vacuum cleaning service for roads as in many countries abroad. We also

WITH COIMBATORE BEING LISTED AS ONE AMONG THE 100 CITIES WHICH HAS THE POTENTIAL TO BECOME A SMART CITY, WE ASK STUDENTS OF JCT COLLEGE OF ENGINEERING AND TECHNOLOGY WHAT CHANGES THEY WOULD LIKE TO BRING IN THE CITY FOR IT TO BECOME A SMART CITY, AND THIS IS WHAT THEY HAD TO SAY:

**Abhish Raj S** - First year, Food Technology

Coimbatore can be made into a smart city by using a lot of innovative technologies. An E-card can be provided to all to access public toilets, buses and other public amenities. Speed detectors must be provided on the road to avoid accidents. Rain water harvesting is something we fail to do every year and there should be a proper system to collect rain water.

I would suggest that new plans be implemented every year. As each city will have something positive and that clicks among the citizens, with the suggestions from people new things can be introduced step by step instead of all at once.



**Akshaya Sundar** - First year, Petrochemical Engineering

For a city to become a smart city, it should first be made clean. Cleanliness is an important aspect of a changing city. We need to introduce e-toilets in the city for the same. Tourism will also develop once the city is clean. There should be youth involvement in any change that the government plans to bring about. The students should involve themselves in cleanliness activities. Each week one day should be allotted to cleaning the city. The green cover in the city should be increased too.



**Sidharth S Nair** - First year, Automobile Engineering

Coimbatore is a potential candidate for a smart city and I would suggest a few changes such as in the medical section and in the transport sector. We definitely need relaying of roads and proper signals to reduce traffic and accidents. Hospital facilities should develop and the government should invest more on government hospitals. Also, there is a disparity in the society on the basis of wages and a common wage board for each section of the society must be implemented. As the consumption of petrol and diesel is more, companies should help people to switch to viable



**Shelina J** - First year, Food Technology

In my opinion, a city becomes a smart city only when there are equal opportunities to all and women are safe wherever they go. To make Coimbatore a smart city, we need a suggestion box in every street for people to submit their grievances. Coimbatore is connected to many cities through roads and transport facilities should improve. The city also has a lot of scope for implementing solar and geo-thermal energy, and we should

# A Raging Issue

Every year in the beginning, Jallikattu becomes the favourite topic of debate. This year, the Supreme Court, in the early days of January, lifted the ban on the sport but again stayed it days before Pongal. We ask the students of JCT College of Engineering and Technology if they support or are against the ban on Jallikattu.



"I would take a neutral stand on this issue. Special breeds are bred in farms for this purpose every year and there is always a question mark hanging over the game. Instead of animal organisations and government taking a stand on the game, I think we should involve those who are directly affected by the game and also those who organise it. When most of the derogatory social practices were abolished before independence, nobody thought of abolishing Jallikattu as it was played in proper spirit. I think there should be a voting system in place for these kind of issues too."

**S Shyam**

First year, B.Tech Food Technology

"Jallikattu, in the earlier days, was a sport for entertainment and display of bravery. As days passed, people started ill-treating the bulls and that is the main reason that the Supreme Court states for the ban. On the other hand, animals from our country, especially cows and dogs are being exported to other countries and their meat is being consumed. In Jallikattu we don't harm the animal in any way. I support Jallikattu and would urge the government to put rules in places as to how the game should be played."

**P Ahalya**

First year, BE Petrochemical Engineering



"Jallikattu is a traditional game and we consider bulls and cows as gods. The game involves taming the bull, but of-late it has become dangerous, mainly because of the way humans instigate the bull. In my opinion, there were proper ways to conduct this game, but now I don't see any rules being followed. In that sense, Jallikattu should be banned as it harms viewers as well as the participants."

**M Preethika**

First year, B.Tech Food Technology

"Traditionally, Jallikattu was organised to pick out the bravest among the men in the village and mothers who came along with their daughters would ask the winner for marriage. But now no such practices prevail, at least in cities. Though the game can be confined to the villages alone, the organisers do not follow proper rules. While participants do get injured, nowadays even the viewers are injured and many die too. That is mainly because there are no proper rules when it comes to Jallikattu. If the government is ready to lay down proper guidelines then the game can continue if not it is better that it is banned."

**Amal Shino**

First year, BE Petrochemical Engineering



"It is very sad to note that international and national organisations are not in support of certain Hindu practices. The ban on Jallikattu was sought by PETA which is an organisation that has its roots in America and it is now being supported by Indian animal protection agencies too. My question is, what do the international organisations know about our practices? They have no right to seek a ban on anything that is coming from our culture. I completely support Jallikattu and it should be organised as part of the Pongal festival."

**Mohammed Nouhar**

First year, BE Petrochemical Engineering

"Every year, Jallikattu is a hot topic, only during Pongal. Though it does come up at other time of the year just for a day or two, there has been no proper ruling on this game. It was banned by the Supreme Court and again lifted and now it is stayed. The game has created a fear among people now, as even those who go to witness it are hurt. There have been many fatal incidents, in my opinion Jallikattu should be banned. Though it is a part of our tradition and culture, animals and humans are hurt equally and gone are those days that the game was played keeping safety in mind."

**Chris Joy**

First year, BE Petrochemical Engineering



