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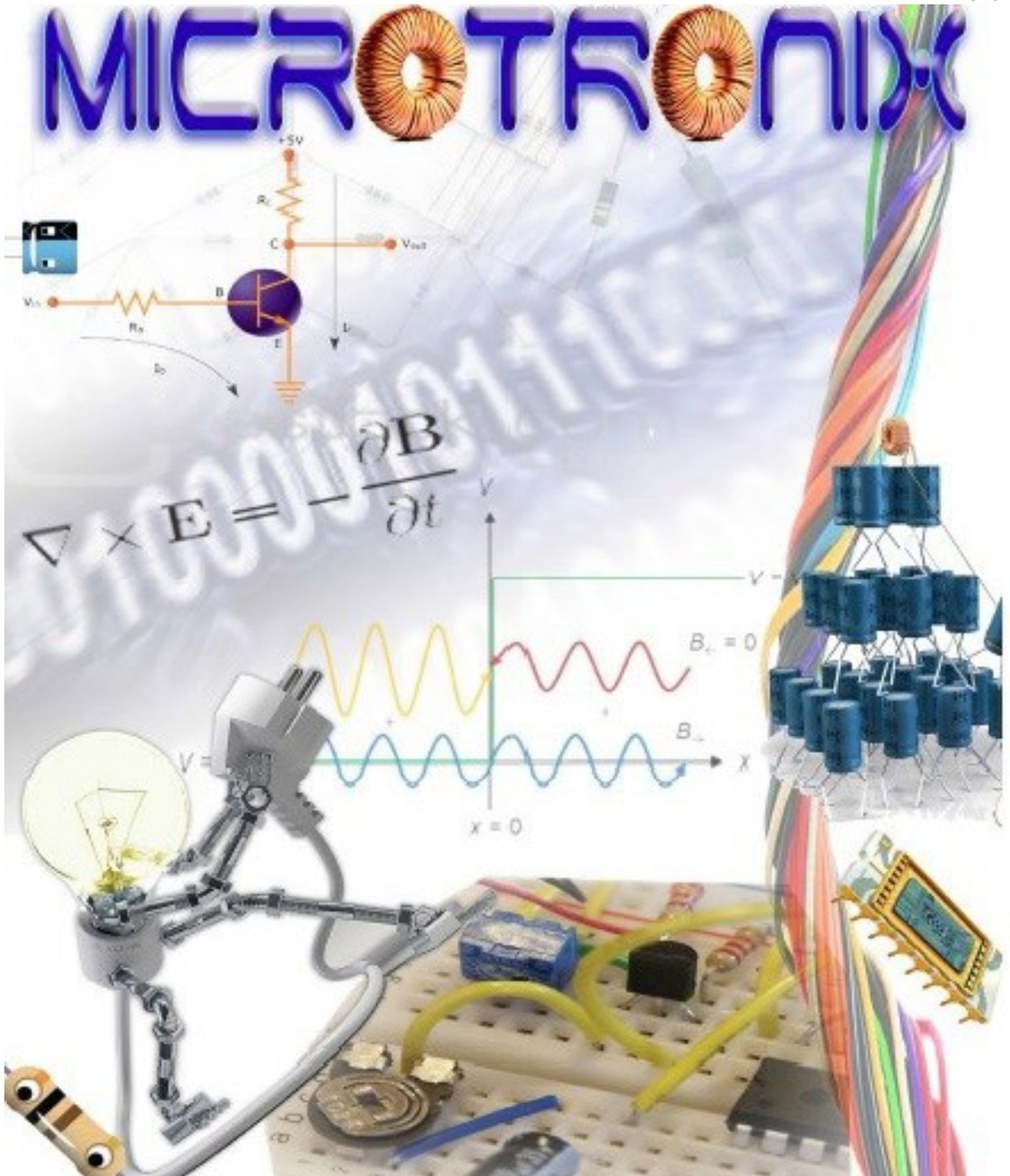
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NEWSLETTER FROM DEPARTMENT OF ELECTRONICS ENGINEERING

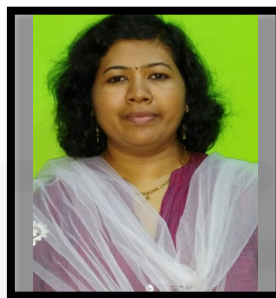
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EDITOR'S NOTE:



Manisha Mane

Assistant Professor

SAKEC

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My dear colleagues and students, It is our great pleasure to present to you, the 2nd issue of volume no.5. of our departmental newsletter "Microtronix", a platform for our students to present their technical and extracurricular talents. I would like to congratulate our toppers and also all other students for achieving good results and for participating in extra curricular events.

This semester, the professional bodies conducted many interesting training programs and seminars, even beyond the walls of college all of which saw active participation by staff and students. In this edition of Microtronix, apart from showcasing our achievements, we also present some interesting articles by students and some beautiful work of art and photography. Applause to all contributors.

I hope that the newsletter encourages many more students to express their creativity. I congratulate the student editors for the great effort they put in, for bringing out this issue. I would like to specially thank all editorial team members and my colleagues for their immense support, and I wish all my students, great success in their future endeavors.

Manisha Mane

Assistant Professor

SAKEC

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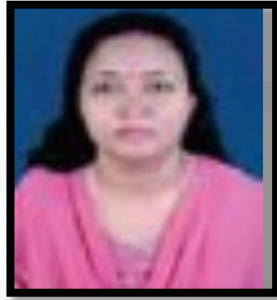


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Prof. Preethi S Warriar

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**Ms. Dilpreet Kaur, Ms. Arnika Phatak, Ms. Urvi Bhimani, Mr. Shrenik Dhamane
and Mr. Gaurav Rai**

(From Left to Right)

ALUMNI ARTICLE



Gauri Patil

Electronics Engineering,
Batch:2010-2014

My journey in SAKEC started way back in June 2010..Initially,I was apprehensive about the college but as days passed my apprehensions disappeared with the ticking time. Those four years were very crucial to me. I say it not because it is something everyone says but something which I have experienced.

SAKEC nurtured me and brought me out of my nutshell. Today, as I stand as a confident individual in this corporate world, SAKEC has contributed immensely to this. SAKEC has given me an edge and added value to my life. In order to progress in your life only a degree is not enough you also need perspective, a vision and guidance, SAKEC has given it all.

The real star of SAKEC is the faculty of SAKEC. They have abundant knowledge waiting to be distributed. In my college days I shared a very good rapport with my teachers. They guided me and encouraged me whenever I approached them for their support. I never got a 'No' when I approached them with my difficulties and not just academics I could discuss with them various other difficulties too. I would like to take this opportunity to thank all my professors who have helped me learn and grow in SAKEC.

SAKEC is a lot more than an engineering college, it nourishes every student. You get a plethora of opportunities for overall development. SAKEC has different student chapters like IEEE,ISTE,CSI.I had worked for ISTE and working for ISTE was an

exciting experience for me. The workshops, seminars that we had arranged , the excursions we had are all memories that are very dear to me. I never thought I could use photoshop, but being a part of ISTE I worked and delivered things using photoshop, all these memories still make me smile. The bonds that I made back then are of immense value to me today also. The initiative of Tech-A-Kid that we started back in 2013 is very dear to me. It gave me an opportunity to engage with local schools .I would again like to thanks everyone who made that initiative a success.

Not to miss out on the SAKEC Symposium. I had loads of fun in organizing various events. Investing time in technology, working, drilling, mending it all together and putting up art. All these experiences under one roof. I enjoyed a lot working, participating and volunteering for SAKEC Fests.

All these events, experiences were phenomenal but as they say life is not a bed of roses it neither was for me. I also experienced certain hiccups. Amidst all the chaos SAKEC has been a second home to me. It has shaped me into the person I am today. I am really grateful to the entire SAKEC fraternity for helping me grow and develop. I wish the legacy of SAKEC continues forever; SAKEC students pass out with flying colors and bring laurels to the institution. All the Best!

Thank You,

Gauri Patil.

Electronics Engineering,

Batch:2010-2014

(Ms. Gauri Patil is pursuing Post Graduation Program in Management from IIM Kozhikode (Batch : 2017-2019). Before this, she has worked in TCS for 2.8 years)

STAFF ARTICLE



Preethi S Warriier

Assistant Professor
SAKEC

Save Them, Save Yourself from Imminent Doom

As I walked to the bus stop from my building yesterday, I felt roasted under the scorching sun. What surprised me was, it was only nine in the morning and since the past five years or so, never had I felt the sun beating down on me so cruelly. Even last year, as I remembered, I never had to carry an umbrella for the short five minute walk from my home to the bus stop. I wondered what had gone so terribly wrong in a matter of just a few months. And I found my answer in the evening, when I walked back home a bit more leisurely, looking around with my eyes wide open.

My flat being right on the Sion-Trombay Road, I have been witness to an intense road widening activity since the last two months. The pavements have been demolished and I guess at least ten tall, old, beautiful trees lining the road have been felled, all for the road widening. Mind you, I am only talking about one to two kilometres in my vicinity. Just a month back two majestic banyan trees, right in front of my house were chopped down and carried away in trucks. The empty space was covered with concrete almost immediately and like any other busy Mumbaikar, I had been too busy to worry about it, let alone protest. And today, I suddenly understand why the otherwise cooler Deonar Farm road has suddenly become so scorching hot. Why there is no shade anywhere. Why I don't hear the birds chirping and the occasional songs of the cuckoo anymore.

From the past few months, we all have been going through hell with abnormally high temperatures and acute water cuts. The front pages of all newspapers are flooded with news of the alarming drought situation in Maharashtra, thousands of farmer suicides, and ever

increasing temperatures. The rainfall last year was scanty and we still don't know how it would be this year. And we have the good old 'global warming' to blame. Aren't we turning a blind eye to the obvious here?

In this craze for urbanization and modernization, the civic bodies are not giving a second thought about chopping off huge trees. Since childhood, we have been taught that trees give us shade, provide us with fruits, cool the atmosphere and provide shelter to birds and animals. But most importantly, they give us oxygen and bring rains. It's as simple as 'No Trees, No Oxygen, No Rains and No Life'. But I still find massive construction work happening everywhere, along the once green Mumbai-Pune Expressway, in Aarey Milk colony and around Sanjay Gandhi National Park. And I am only talking about Mumbai.

Honestly, we all know that the traffic situation is getting worse by the day. With the number of cars, taxis and auto rickshaws always on the rise, how does widening a road by a foot or two create such a huge difference? On the other hand, when one big tree can produce enough oxygen to sustain a family of four, is it worth chopping it down for saving a minute in traffic?

Trees are our oldest friends, guardians of earth and givers of life. We are all victims of global warming and something as bad as global warming is an immediate outcome of widespread deforestation. If we don't want our taps to run totally dry next summer or die of sun stroke, I think it's high time we woke up and took notice.

Common people like us could contribute by planting trees in our compounds, protesting against illegal tree felling and spreading awareness among the younger generation. But importantly, the civic bodies should realize the huge loss to nature and mankind, before bringing down a tree just for the sake of road widening.

I quote a WhatsApp post I received a few days back,

"It is very unfortunate that trees give us only oxygen, if only they gave us free Wi-Fi."

By Preethi Warriier

STUDENT ARTICLE



Aditya Aurobindo

TE-ETRX

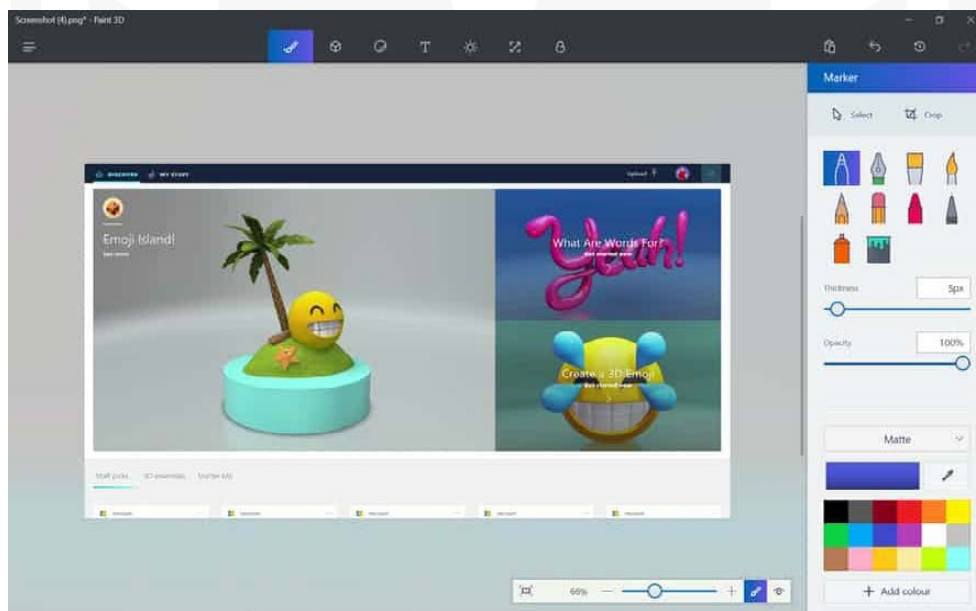
R.I.P MS Paint (1985-2017)

For most of us, playing on the computer during our childhood days meant doodling on MS Paint. Creating a masterpiece by layering one color on another using the airbrush was pretty common. Now all that remains of this childhood buddy is nostalgia.

Microsoft's next Windows 10 update, called the Autumn (or Fall in the US) Creators Update, will bring a variety of new features. But one long-standing stalwart of the Windows experience has been put on the chopping block: Microsoft Paint.

First released with the very first version of Windows 1.0 in 1985, Paint in its various guises would be one of the first graphics editors used by many and became a core part of Windows. Starting life as a 1-bit monochrome licensed version of ZSoft's PC Paintbrush, it wasn't until Windows 98 that Paint could save in JPEG. With the Windows 10 Creators Update, released in April, Microsoft introduced the new Paint 3D, which is installed alongside traditional Paint and features 3D image making tools as well as some basic 2D image editing. But it is not an update to original Paint and doesn't behave like it.

Now Microsoft has announced that, alongside Outlook Express, Reader app and Reading list, Microsoft Paint has been signaled for death having been added to the "features that are removed or deprecated in Windows 10 Fall Creators Update" list.



STUDENT ARTICLE



Aditya Aurobindo

TE-ETRX

How to stop Apple/Google From Tracking Your Movements

Your phone has been keeping a comprehensive list of everywhere you've been – and you might not even know. Whether you use iOS or Android, handsets have ways of watching where their owners are going and keeping a record of all of that information.

The data can be a very useful way of reminding yourself where you've been or when exactly you went on a certain trip. It also allows the phones to tell you useful information by knowing where you tend to go and on what days. But it can also be a strange way of remembering just how much information some technology companies store about your life.

Google has perhaps the neatest way of looking at all of that information on its Your Timeline page, which used to be known as Location History. You can head there and see a map of everywhere you've been with your phone – grouped into trips and dates. The site uses the data for its various location-aware tools, including Maps and notifications that can make you aware of things that are happening nearby.

It's from that same page that you can opt to enable the tool if it's not already turned on, or to pause it. If you're on Android, then the tracking feature can happen using just the phone. On iOS it needs an app – the Google app, for instance, can track your location and send it to Google while it sits in the background.

Google also makes it easy to turn off location information, and to delete either everything or specific parts of the information that it has stored.

To turn the whole thing off, you can head to your Google account and turn the "Location History" switch off. Since you're doing that at the account level, it will change whatever device has been tracking you.

To delete it, you head to the location history page above and select either a day or location and opt to delete that history. Otherwise you can pick the "Delete all history" option to get rid of the entire thing.

Apple also does something similar, in its iPhones. To see the list, you can head to the Settings app and click on Privacy. There you'll find an option for Location services, which is also the place you can disable any other app from tracking you.

Scroll down to the bottom of that list and find the setting for System Services. Click on that and choose Frequent Locations. In there you'll find a list of everywhere you've been and how many times you've been there.

Like Google, Apple uses that information to understand more about what you do. It will be able to tell if you tend to drive home at a certain time each day, for instance, and suggest that traffic is looking bad if it is.

It's important to note that none of Apple's Frequent Locations data is sent to Apple by default, and it just lives on your phone. That can make it less useful than Google's version – you can't view it on the web, and you'll lose it if your phone is reset, but it also means that it won't be used for advertising or anything else.

REFERENCE:

www.yourtechshow.com

EVENTS & WORKSHOPS

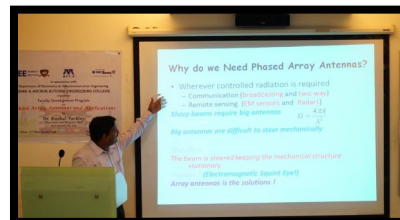
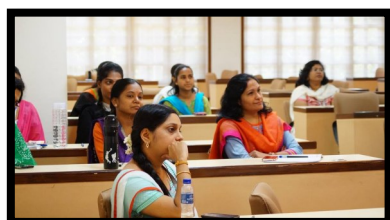
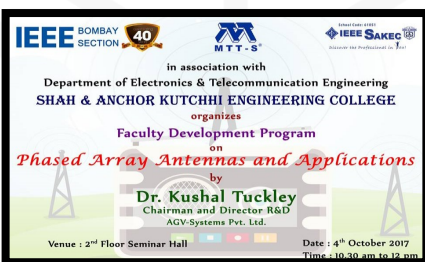
1. ISTE SAKEC

Department of Electronics Engineering in association with ISTE SAKEC organized an **industrial visit at L&T Marine, Rabale on 7th Oct 2017**. Mr. Vijay Mahajan at L&T with his supporting staff enlightened the students about the knowledge of submarine panels assembled in their premises. The students visited the switchgear and control section along with the UPS section which is used in Indian submarines. The visit was coordinated by Prof. Shikha Shrivastava, Prof. Asha Durafe and Prof. Manisha Mane from Department of Electronics Engineering.



2. IEEE SAKEC

I. IEEE Bombay section MTT-S in association with Department of Electronics and Electronics & Telecommunications of Shah and Anchor Kutchhi Engineering College and IEEE SAKEC have organized a Faculty Development program on "**Phased Array Antennas and Applications**" by Dr. Kushal Tuckley on 4th October 2017



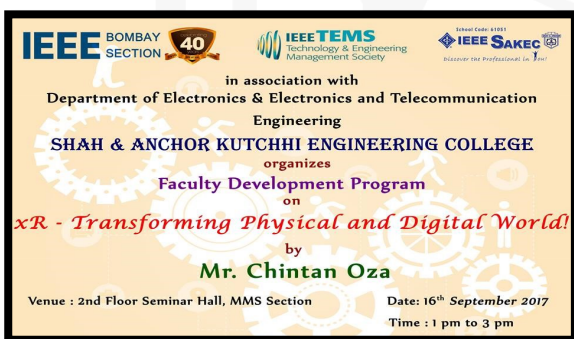
II. IEEE SAKEC in association with Electronics Engineering Department have organized for the very first time the **DICE Boot Camp Activity at Indian School of Design & Innovation (ISDI)** for TE on 23rd September 2017.

In Dice boot camp they took two sessions explaining about importance of Design thinking. The students were divided into group of ten students and gave them two tasks:

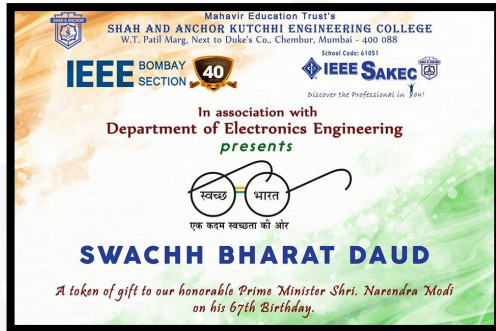
- 1) Marketing for a particular product according to need of customers like for example reliance etc.
- 2) To make tallest and sustainable tower by using only newspaper and cello tape.



III. IEEE Bombay Section TEMS in association with Department of Electronics & Electronics and Telecommunication Engineering, SAKEC and IEEE SAKEC have organized a Faculty Development Program on "**xR - Transforming Physical & Digital World!**" on 16th September 2017 from 1pm to 3 pm in 2nd Floor Seminar Hall.



IV. IEEE Bombay Section in association with IEEE SAKEC and Electronics Engineering Department of Shah & Anchor Kutchhi Engineering College organised a **SWACHH BHARAT DAUD** at Chembur, Mumbai on 17th September 2017 at 7 am. This is organized as a token of gift to our honourable Prime minister Shri. Narendra Modi on his 67th birthday. The marathon was a 3-km run from Suman Nagar to Shivaji Chowk and back. Students of SAKEC reached there at 7 a.m.



V. IEEE Bombay Section in association with Department of Electronics Engineering, SAKEC and IEEE SAKEC had organized a Lecture series on **Big Data and Data analytics** from 16th August 2017.



3. IETE SAKEC

Department of Electronics Engineering in association with IETE Students Chapter SAKEC successfully conducted FDP on ‘**Advanced Digital Communications and Cryptography**’ on 22nd August 2017, by Dr. Archana Bhise, from NMIMS, Mumbai . This event was coordinated by Prof. Babychan Mathew.



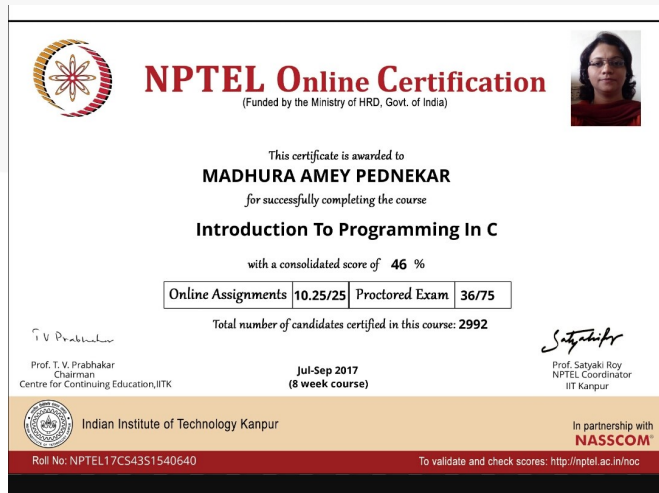
4. ACM SAKEC

SAKEC ACM Student chapter in association with Electronics department organized a meet up on “**Beginners guide to Data Science.**” The event was held on 23 September, 2017 which was open to college students from all branches and years along with students and professionals outside the college. The event was organized to provide an insight to an upcoming and interesting field of technology and get to know about future opportunities and build up a career in it.





• STAFF



Mrs. Madhura A. Pednekar completed NPTEL course on Introduction to Programming in C.

• STUDENTS

Spoken Tutorial for JAVA Exam for TE students was conducted on 02/08/2017.

Total 98 students participated in the examination. Out of which 66 students completed the exam successfully.

The 6 toppers names are as follows

Sr.	First Name	Surname	E-mail ID	Score
1	ANKIT	VAITY	ankitarunvaity@gmail.com	75.0% - Certificate
2	YASH	SINGH	buzzingyash.ys@gmail.com	72.5% - Certificate
3	MURTUZA ZAI-NUDDIN	INDOREWALA	murta-za.indorewala95@gmail.com	72.5% - Certificate
4	NILESH ARUN	GAONKAR	nileshgaonkar94@gmail.com	67.5% - Certificate
5	GAURAV SU-DARSHAN	RAI	gauravrupamrai677@gmail.com	67.5% - Certificate
6	HEMIT	SHAH	hemsrocks97@gmail.com	67.5% - Certificate

ACHIEVEMENTS

Spoken Tutorial Latex Exam for BE students on 03/08/2017

Total 96 students participated in the examination. Out of which 46 students completed the exam successfully.

The 5 toppers names are as follows

Sr.	First Name	Surname	E-mail ID	Score
1	AKSHAY	MARGAJ	akinitro123@gmail.com	70.0% -
2	SANKET	MANE	sanket.mane@sakec.ac.in	69.4% -
3	CHINMAYEE NAN- DAKISHOR	MAN- JAREKAR	manjarekar- chinmayeen@gmail.com	69.4% -
4	KARTIK	JADHAV	kartikjadhav05@gmail.com	66.7% -
5	RIDDHI	APTE	riddhi737@gmail.com	60.0% -

RESULT ANALYSIS

SE SEM (IV), May 2017

Sr. No.	Subject	Passed%
1.	APPLIED MATHEMATICS -IV	49.21
2.	DISCRETE ELECTRONIC CIRCUITS	58.08
3.	MICROPROCESSORS AND PERIPHERALS	78.57
4.	PRINCIPLES OF CONTROL SYSTEM	80.86
5.	FUNDAMENTALS OF COMMUNICATION	88.51
6.	ELECTRICAL MACHINES	62.50

TE SEM (VI), May 2017

Sr. No.	Subject	Passed%
1.	BASIC VLSI DESIGN	73.57
2.	ADVANCED INSTRUMENTATION SYSTEMS	95.71
3.	COMPUTER ORGANIZATION	94.29
4.	POWER ELECTRONICS 1	78.52
5.	DIGITAL SIGNAL PROCESSING	93.06
6.	MTM	93.57

RESULT ANALYSIS

BE SEM (VIII), May 2017

Sr. No.	Subject	Passed%
1.	CMOS VLSI DESIGN	87.92
2.	MEMS	94.93
3.	ROBOTICS	97.14
4.	MOBILE COMMUNICATION	97.37
5.	ADVANCED NETWORKING TECHNOLOGIES	99.32

Branch Toppers

ELECTRONICS DEPARTMENT TOPPERS

SECOND YEAR



Tanvi H. Jogalekar
Gold Medallist
(CGPA 9.64)



Sushant B. Awale
Silver Medallist
(CGPA 9.61)

THIRD YEAR

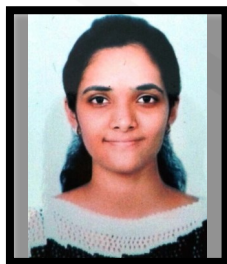


Dnyanda R. Parab
Gold Medallist
(CGPA 9.65)



Sameer K. Enjapuri
Silver Medallist
(CGPA 9.25)

FINAL YEAR



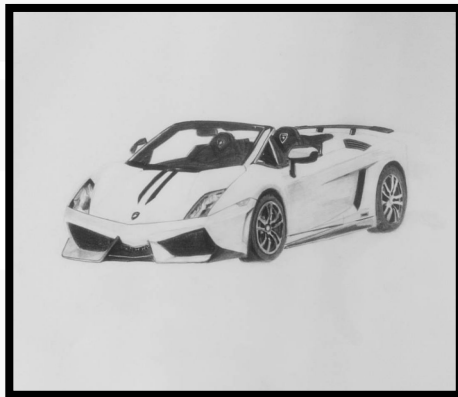
Aditi A. Dumbre
Gold Medallist
(CGPA 9.43)



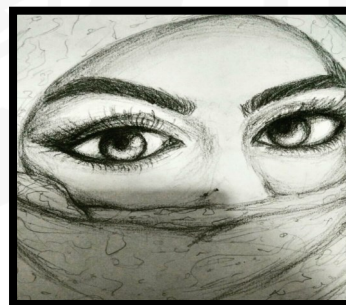
Yogita V. Mahajan
Silver Medallist
(CGPA 9.22)

Creativity Corner

1. PAINTINGS & SKETCHES



Harsh Panchal
FE-2
ELECTRONICS



Purva Desai
SE-1
ELECTRONICS

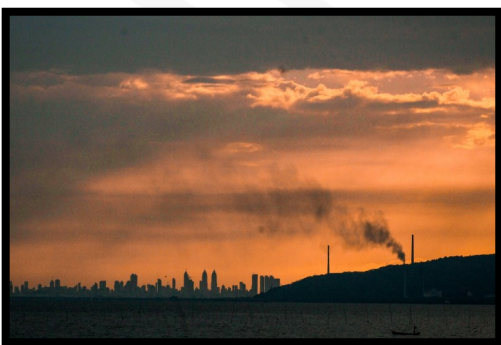
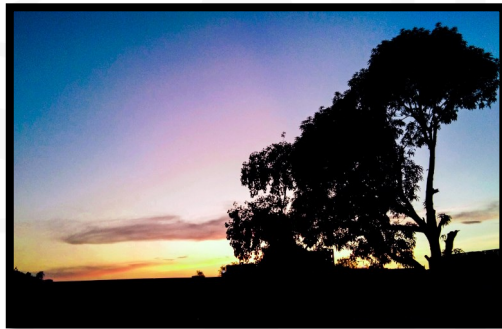


Arnika Phatak
TE-2
ELECTRONICS



Debleena Mukhopadhyay
BE-1
ELECTRONICS

2. PHOTOGRAPHY



Tejas Pawar
TE-2
ELECTRONICS



Debleena Mukhopadhyay

BE-1

ELECTRONICS



Manisha Mane

Assistant Professor

SAKEC

3. POEM

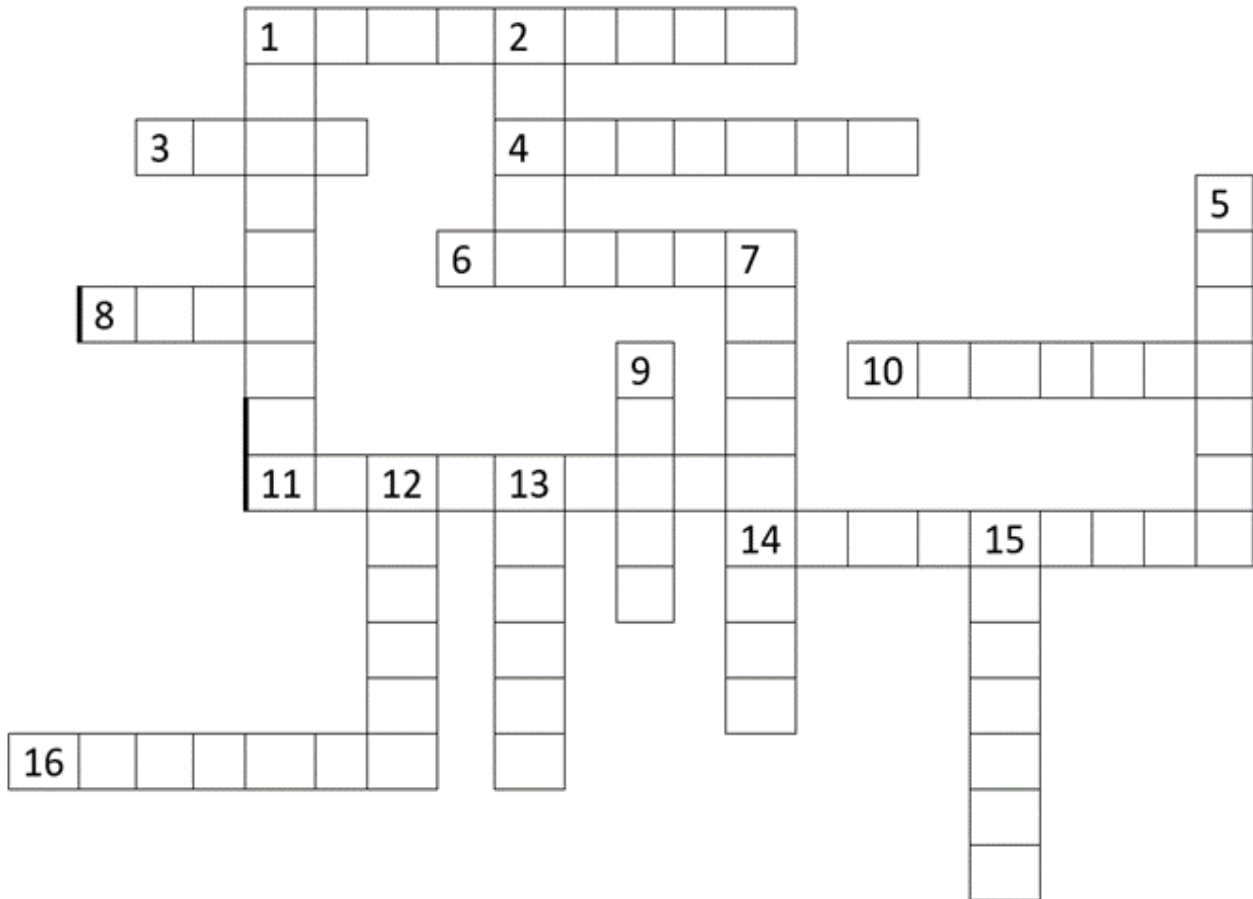
Anushka Kashyap

SE-2

ELECTRONICS

1. ""Panch saal ki nanhi Gudiya Jab Khelti thi Galiyaro mein,
Gunj uthati thi har diware uski hi kilकारी में,
Subah School jati, Bhari dopehar ko vo aati,
shyam ko khelne jati, 7-8 baje tak vo ghar aati!!!
Kabhi natkat pari bankar masti vo karti,
Kabhi bhooli si surat banakar sabka dil vo jeet leti,
Jisko Maths Homework se tha dar lagta,
hua uske saath isaniyaat ko gali dene wala ye hadsa
jo rukti thi na kisike rukane se,
thamti thi na thamne se,
Aaj Hospital lati hai, uthati hi nahi uthane se!
jhime dar manu ek ko ya anek ko,
mano galti uss inyaan ko ya uski ghatiya soch ko!
Sawal Phir Mera un logo se,
jo mante hai ladki ke kapdo ko jimedaar inn hadso ke liye,
kya 5 saal ki bacchi ko band karde hum kamre mein,
Ya bheje hum ab unhe bhi bahar sang ghughat ya burkhe ke!!!"

BRAINSTORM



CROSSWORD

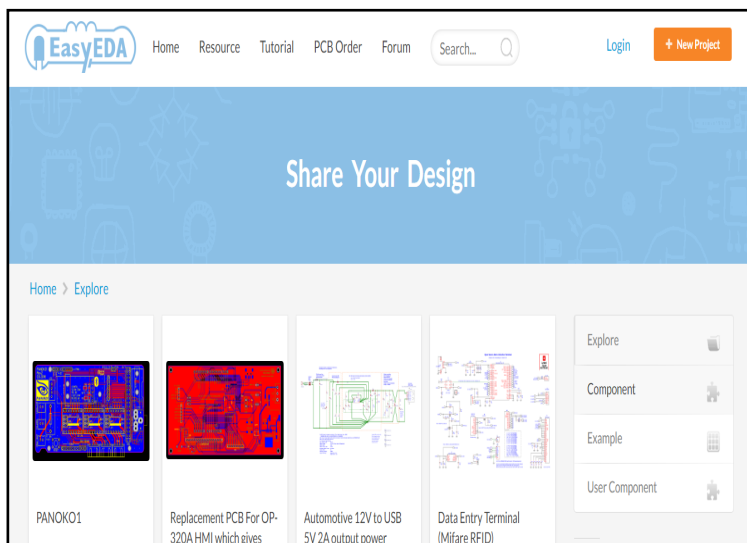
Across

1. Break in a continuous process.
3. It protects the electronic instruments from excess current.
4. Transform that maps time domain signals to complex frequency domain.
6. A set of electronic circuits integrated to perform a particular task.
8. A powerful object oriented programming language.
10. A circuit which can count objects.
11. Circuit current is reduced due to these elements.
14. This circuit element stores energy in the form of electrostatic field.
16. A closed path through which current can flow.

Down

1. It does not let electricity to pass through.
2. It protects the electronic instruments from excess current.
5. Transform that maps time domain signals to steady state frequency domain.
7. An earlier form of moving picture machine.
9. A semiconductor device that can act as a rectifier.
12. An electrical device receiving plug.
13. It makes and breaks the connection.
15. Device to power up battery .

USEFUL WEBSITES



EasyEDA:

Its a free online web based tool that allows you to create schematics, design PCBs and generate simulations of your desired circuit. You can share your designs on their online forum, as well as download designs made by other users for free. Also, due to this huge online community, the website is timely updated with newer schematics developed by various users.

Go ahead and check this out at:

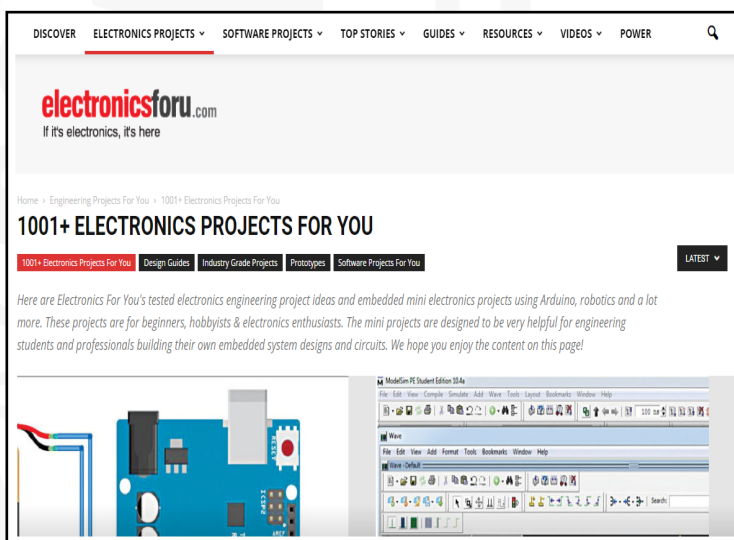
<https://easyeda.com/>

Electronics For You:

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Circuit Digest:

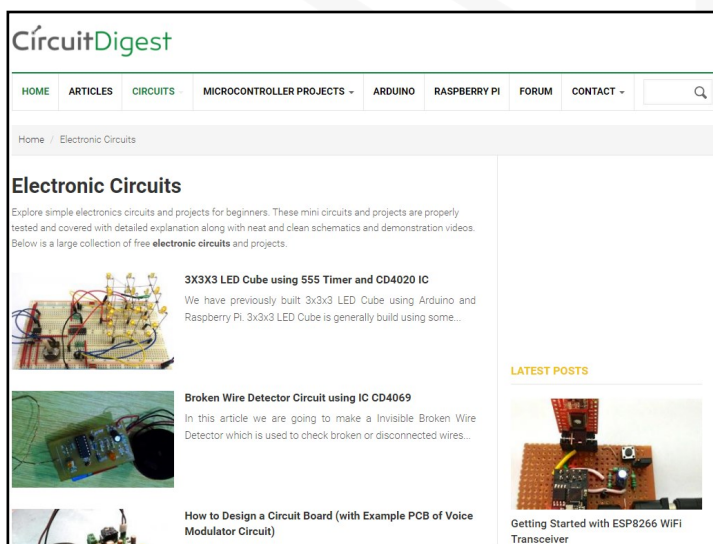
Want to build interesting projects? Don't know what to build or how to build?

Circuit Digest, is what you're looking for. This website is solely dedicated to project guides and tutorials.

8051, AVR, PIC, Arduino, Raspberry Pi , along with many other discrete electronics based projects.

Go ahead and check this out at:

<https://circuitdigest.com/>



BRAINSTORM

SOLUTION

CROSSWORD

The crossword puzzle grid is filled with the following words:

- 1. INTERFERE
- 2. INTERRUPT
- 3. USE
- 4. LAPLACE
- 5. SUFFIX
- 6. SYSTEM
- 7. JAVASCRIPT
- 8. JAVA
- 9. DTD
- 10. COUNTER
- 11. RESISTORS
- 12. OSCILLATOR
- 13. SWITCH
- 14. CAPACITOR
- 15. CIRCUIT