

Shroff S.R. Rotary Institute of Chemical Technology

ISSUE

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44

Kalhan
ज्ञानम यजामहे।

अभ्युदय

IN

This Issue



Rotary 

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Mr. Ashok Panjwani, President UPL University
Mr. Angiras Shukla, Secretary ARES
Mr. Kishore Surti, Treasurer ARES

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Mrs. Amishi Popat [Assistant Professor - EST]
Mr. Apurba Chakraborty [Assistant Professor - CT]
Dr. Mari Kumar [Assistant Professor - M.Sc]

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STUDENT EDITORS



Darshan Prajapati
2nd Sem Computer Engineering



Saurabh Singh
2nd Sem Computer Engineering



Anjali Yadav
2nd Sem M.Sc



Priti Pal
4th Sem EST



Dipali Patel
2nd Sem CE



Prince Patel
4th Sem ME



Himanshu Dubey
4th Sem ME



Nisha Pandey
2nd Sem B.Se



Jane Anthony
6th Sem CT

Student Felicitation Program

॥ अभ्युदय-2022 ॥

SRICT always believe in commending students for their hard work and sincere efforts in academics to inspire them to scale higher merits as they gradually excel in their engineering journey.

Academic award ceremony of Batch 2018-022 "ABHYUDAY-2022" was celebrated to honor the shining stars of semester VIII for their splendid performance at GTU summer 2022 examination. 16th July has always been a memorable day for all of us and today as we stepped in 2022, it marks 11 years of an outstanding academic journey for SRICT and 01 year of UPL University of Sustainable Technology. Dignitaries including Ms. Naitikaben Patel, Sub Divisional Magistrate, Bharuch district, Chancellor UPL University, Sandra Shroff, President, Ashok Panjwani, Secretary, ARES Angiras Shukla, Treasurer, ARES Mr. Kishor Surti, Provost(I/c) Shrikant Wagh, Treasurer Kishore Surti, CEO, BEIL B. D. Dalwadi, President of Rotary Club, Arpan Surti, Rtn. Mrs. Meera Panjwani, Parents, invitees from industries and Rotary club, Deans, HODs and faculties and supporting staff witnessed the acceptance of Provisional Degree certificate along with cash prizes and certificate of excellence.



Total cash prize worth Rs. 3 lacs were awarded to 145 students and 05 students were awarded with Gold medals. The Program was coordinated by Mr. Samir Jariwala and his team and received high applause from the audience.



Inauguration Program

DATA SCIENCE

Data Science and Artificial Intelligence training course started for students in UPL University

UPL University of Sustainable Technology has always been using innovative methods for the bright future of students. This time UPL university decided to train students in data science and artificial intelligence along with studies, considering the needs and future of industries today. Training program of Data Science and Artificial Intelligence was inaugurated by President of UPL University of Sustainable technology Mr. Ashok Panjwani on 2nd July 2022.

On this auspicious occasion, press and electronic media were welcomed by Dr. Shrikant Wagh. Dr. Snehal Lokhandwala gave information about the training program and its benefits to the students. He said that the university has made agreement with Intellipaath and IIT Madras of Chennai and training of data science and artificial intelligence will be given by faculties from IIT Madras and IT industry experts. This training costs Rs 1,00,000 per student as per market price but university offers it to our students at Rs 5000 and remaining amount will be appropriated by UPL limited and Shroff family members. During press conference, Mr. Arpan Surti, President, Rotary club of Ankleshwar also graced the program. was present in this program.

Mr. Ashok Panjwani informed members of the press and media that this is a unique achievement in higher education in the state of Gujarat. He said that we are committed to a bright future of students and this training will increase students' salary standards in coming days. In addition to this, President Ashok Panjwani wished all the students who participated in the program a great success and unique opportunity to learn. Thanks to all the press and electronic media members of Bharuch district who attended this auspicious occasion. Vote of thanks expressed by Mr. Dharmesh Patel. The entire program was executed by Ms.Monika Patel and Ms.Rupali Attarde.



Glimpse of Data Science Inauguration Program



Technical Articles Workshop.

The Computer Engineering Department, SRICT had organized a Workshop on “Multimedia, VFX and Metaverse” in association with IQAC for 2nd semester Diploma and B.E. students on 10/06/2022. The session was delivered by Mr. Amar Trivedi, Regional Academic Head, Arena Animation Mumbai. Mr. Trivedi gave VFX effects in Aashiqui 2 Movie.

He explained concepts of multimedia, Virtual reality, Augmented reality, Mixed Reality with examples. He also created a live 3D avatar of our students. He explained CFX, VFX in detail. He practically showed the use of blender software. Experts focused on Metaverse and current demand of VFX which covers graphics designing, gaming, cartoons, visual effects and multimedia in the IT world.



Technical Articles

• Computer technology

The computer is one of the best creations of man. It is the most refreshing result of science and innovation that has made our lives so simpler. Computers are getting ubiquitous as we can find computers from anywhere, like from homes, schools, universities, workplaces, research centers to libraries, exhibition halls, and even emergency clinics. A computer is a machine that can store enormous measure of information and can carry out various responsibilities in a lot lesser time contrasted with people. It gathers contribution from users, processes it, and conveys the usual outcome as output. The primary mechanical Computer was made by Charles Babbage. The significant parts of a computer are – Mouse, Keyboard, Central Processing Unit (CPU), and the Monitor. In this day and age, people have gotten so subjected to Computers that it is unimaginable for them to live without it. What makes Computers so significant is its use, productivity, and pure openness. The astonishing advantages of computers make it the most required innovation.

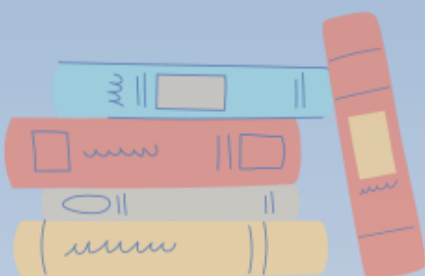
Harly Patel
B.E. Computer engineering.
Semester -2



• Education

The value of education at a much younger age. Our first tryst with learning begins at home, and our first teachers are our parents, grandparents, and often siblings. The importance of education lies in its continuity, learning is a lifetime process that will stop with our death. It is the foundation for the development of a healthy individual and society. Our world cannot have a bright future if our culture lacks education. Education is the key to change. It is an important tool that allows a person to understand his or her rights and responsibilities to ones family, society, and nation. It improves a person's ability to view the world and to fight against injustice, corruption, and violence, among other things.

Dhairya Kesarola
B.E Computer Engineering
Semester -2



The 28th National Youth Conference (NYC)

The 28th National Youth Conference (NYC) was inaugurated formally on 1st June 2022, by host Tanishk Patil. The YC director, Mr. Viral Majumdar and his team touched upon the four values or pillars of I of C; honesty, unselfishness, purity and love by sharing their own different experiences, by performing exercises etc. The conference was very informative and fruitful. It resembles to some topics of Universal Human Values (UHV) that will help us to teach our students effectively.

Duration: 1st June to 8th June, 2022

Place: Asia Plateau, Panchgani, Maharashtra

Total participants: 162 participants + 21 LMAD team members = 183

Trainers: Mr. Viral Majumdar and his team



SRICT faculty members attending the LMAD event at Panchgani

Technical Article

Paper Battery the Solution for Traditional Battery

In a today's digital life, the portable electronic devices, such as mobile phones, portable camera, notebook computers, PDA etc. are becoming a popular because of their lightweight and small size. Batteries used as a portable power source have also become the focus of public concern and have been an essential element of the various portable electronic devices.

Although actual basic problem with traditional batteries such as carbon-zinc batteries, alkaline batteries and secondary batteries, are allegedly environment benign, they in fact largely contain substantial amount of mercury and other heavy metals and also the price of the manufacturing process increasing daily. The paper batteries may meet the energy demands of this next digital generation gadgets. A paper battery may be a versatile, ultra-thin energy storage and production device formed by combining carbon nanotubes with a standard sheet of cellulose-based paper.

The Paper batteries will replace the conventional batteries and Li-ion batteries. Anatomy of paper battery is based on the use of a Carbon Nano-tubes tiny cylinders to collect electric charge.

A paper battery is associate in nursing ultra-thin, environmentally friendly and versatile energy galvanic battery made from carbon Nano tubes and paper or polysaccharide. The paper battery is performed as a brilliant electrical condenser and additionally it is used as a high energy battery. The paper battery is additionally referred to as Nano Composite Paper since it is created from Carbon Nano tubes and paper.

Paper Battery

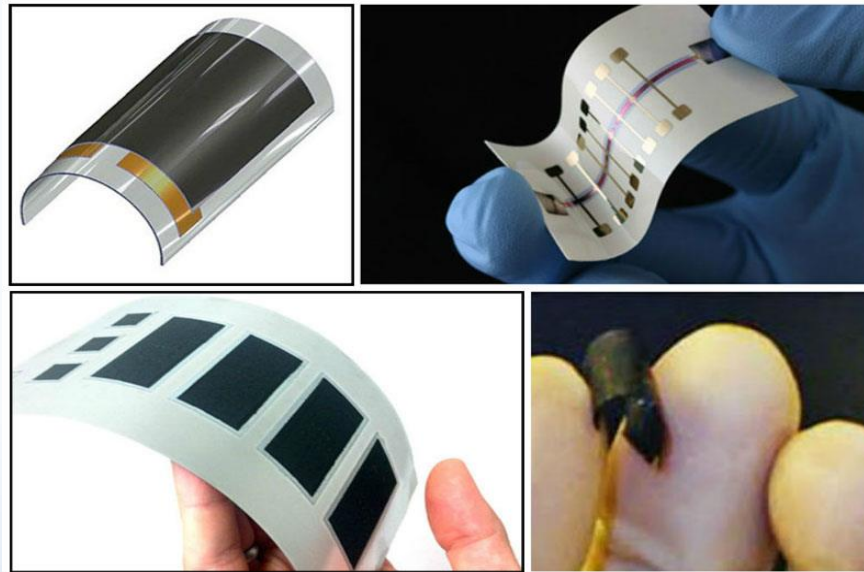
In August 2007 at Rensselaer Polytechnic Institute, a research team conducted by Dr. Robert Linhardt, Dr. Omkaram Nalamasu and Dr. Pulickel Ajayan, developed the Paper battery. In December 2009 at Stanford University, Lolo cui and his analysis team with success unreal the first operating example that gives 5V as its terminal voltage.

A Paper Battery is an ultra-thin and environmentally friendly and versatile energy voltaic battery made of Carbon Nano Tubes and paper or polysaccharide. The functioning of paper batteries is comparable to it of traditional chemical battery. In traditional cases, typical batteries

Continued...

could simply break by corrosion and also generally they needed a large housing. However, the paper batteries square measure non-corrosive, non-toxic and lightweight than the conventional batteries.

The Paper batteries could also be fold, cut or otherwise formed for various applications with none loss of integrity or potency. Cutting one in halves its energy production. Stacking them multiplies power output. Early prototypes of the device are able to manufacture a pair of 5V of electricity from a sample of scale of postage.



Paper Battery = Paper (Cellulose) + Carbon Nanotubes

The devices area unit shaped by combining cellulose with associate infusion of aligned carbon nanotubes that area unit every some one million of a centimetre thick. The carbon is what offers the batteries their black colour. These small filaments act just like the conductor's found during a traditional battery, conducting electricity once the paper comes into contact with an Ionic liquid solution. Ionic liquids contain no water, which implies that there's nothing to freeze or evaporate in extreme environmental conditions. As a result, paper batteries will operate between -75°C and 150°C

The specialized paper batteries may act as power sources for any range of devices implanted in humans and animals, including a RFID tags, cosmetics, drug-delivery systems and pacemakers. An electrical device introduced into associate organism may be implanted totally dry so be gradually exposed to bodily fluids over time to get voltage. Paper batteries are also biodegradable, a need only partially addressed by current re-cycling and other electronics disposal methods increasingly advocated for by the green computing movement.

Continued...

Properties of a Paper Battery

Carbon is accomplished with several allotropes. Some known variety of carbon allotropes are diamonds, Graphite etc. presently completely different sorts of allotropes of carbon are determined and researched like Carbon Nanotubes. In carbon Nanotubes, every atom is amalgamating with all alternative three carbon atoms so as to create a Nano size cylindrical structure. The Nano size cylindrical structure beside its novel properties makes the nanotube conceivably helpful in wide selection of applications in materials science, physical science, technology and optics. The nanotube unveils outstanding strength beside its distinctive electrical properties additionally the nanotube is a good heat conductor too.

Working of a Paper Battery

A conventional battery or Rechargeable contains variety of separate parts that produce electrons through a reaction between the metal and also the electrolyte of the battery. The Paper battery works once the paper is dipped within the ion-based liquid solution; next a reaction happens between the electrodes and liquid. The electrons move from the cathode to anode to generate electricity. The paper conductor stores energy whereas recharging within ten seconds as a result of the ions flow through the thin conductor quickly. The most effective methodology to extend the output of the battery is to stack totally different paper batteries one over the opposite.

Applications of Paper Batteries

With the developing technologies and reduction in the cost of cathode nanotubes, these batteries find applications in the following fields:

In Electronics

In portable computer batteries, mobile phones, handheld digital cameras; the load of those devices can be considerably reduced by replacing the alkaline batteries, while not compromising, the electrical hazards associated with recharging are going to be greatly reduced.

Continued...



In a Medical Sciences

This work was supported in part by a grant from the National Science Foundation. Paper batteries are unit utilized in medical field like for creating pacemakers for the heart, artificial tissues, Drug Delivery Systems, Cosmetics and in Bio Sensors.

In Auto-mobiles and Aircraft

Paper batteries area unit utilized in vehicles and craft like in light weight, radio-controlled missiles, hybrid automobile batteries, long air flights and in satellite programs for powering electronic devices

References

<https://bit.ly/3yYVBoT>

<https://bit.ly/3cafjFf>

<https://bit.ly/3awViIp>



Satish Kumar
(BE) Electrical Engineering 4th semester

Safety Training Program



UPL UNIVERSITY
OF
SUSTAINABLE TECHNOLOGY

Safety Training Program for School Students

Jay Mataji Vidya Mandir , Valia

Training covered following points:-

- * Fundamental Of Fire & Safety
- * Causes & sources of fire
- * Safety practices in laboratory
- * Fire prevention technique
- * Mitigating /preventing equipment
- * Response plan

**25th and 26th
July 2022**

Event Executor :- Mr. Sudeep Wadia

Event Coordinator:- Dr. Omprakash Mahadwad





Guided By:-

Mr. Ashok Panjwani

Dr. Shrikant Wagh

www.upluniversity.ac.in

Continued...

Follow us on:    

Safety Training Program

The Centre of Excellence (COE) in industrial safety established at Shroff S. R. Rotary Institute of Chemical Technology (SRICT) Ankleshwar, by the congruous collaboration of UPL Ltd. and Gexcon, Norway organized Work Place and Life Safety training Program for the school students of Jay Mataji Vidhya Mandir, Valia.

Like it is said, “the cost of injury prevention is far less than the cost of an injury”. A safe and healthy work environment pays, in more ways than one. This Safety training program was held on July 25th and 26th, 2022 at Jay Mataji Vidhya Mandir School located near Valia, for the students of higher classes and the school staff. This basic awareness program included the fundamentals of fire & safety and the causes & sources of fires. They were also explained about the safety practices in the Laboratory and assembly buildings, about the fire prevention techniques & mitigating/preventing equipment. Personal protective equipment for self-safety, emergency preparedness and response plan (what action to take in case fire occurs in a building) were also described. Teaching Methodology was student friendly with demonstrations, animations, case studies, competitions & discussions. AMCQ test was conducted at the end of the course.

This training program was conducted by the faculties of SRICT, under the expert guidance of its President, Mr. Ashok Panjwani Sir and the Provost, Prof. Shrikant Wagh Sir, coordinated by Dr. OmPrakash Sir and executed by Prof. Sudeep Vadiya from Chemical Engineering department.

Hobby Corner (Rangoli)



Janvi Gangvekar
Diploma Computer Engg- Sem 2



Darshan Prajapati
Diploma Computer Engg- Sem 2

Hobby Corner (Photography)



Photographer:-Diploma And BE. Computer Engg. Students(Sem. 2)

Hobby Corner (Sketch & Glass Painting)



Darshan Prajapati
Diploma Computer Engg.
Sem 2

Hobby Corner (Poem)

Poem: वीरों के संतान

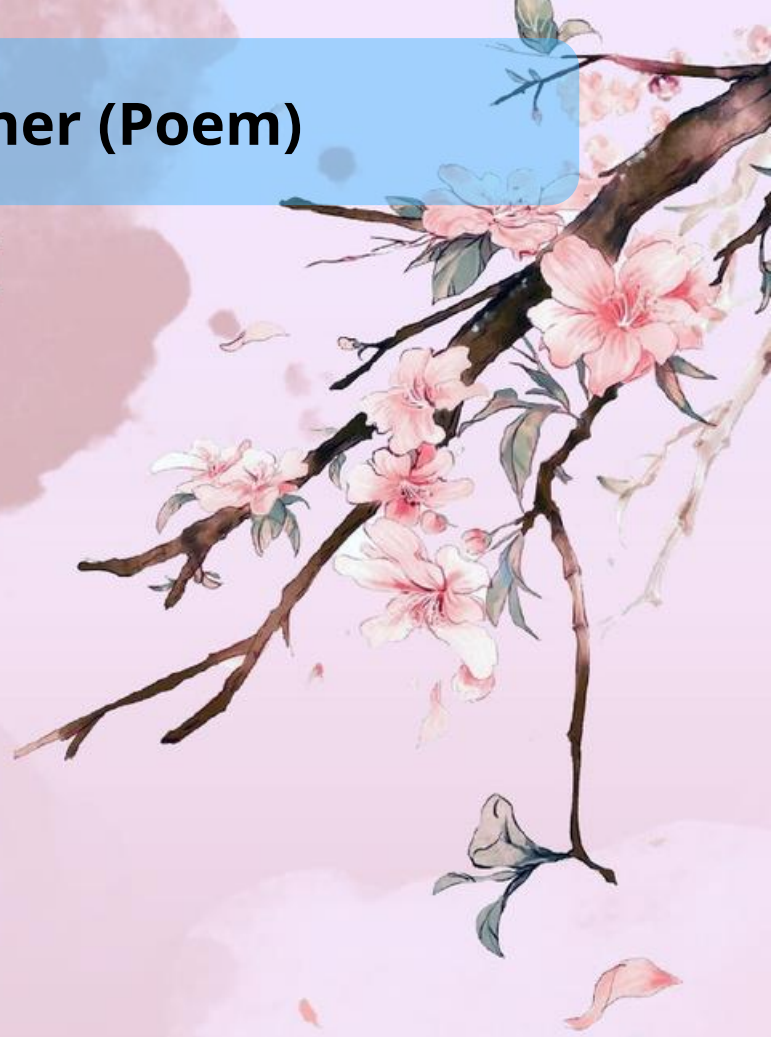
हम वीरों के संतान हैं,
संतान को वीर बनाते हैं।
अपनी मातृभूमि पर मर मिटने से
कभी नहीं कतराते हैं।

हम उस पवित्र भूमि के पुत्र हैं,
जहां अहिंसा ही धर्म हैं।
सत्य को उजागर करना असत्य को झुकाना
यही हमारा कर्म हैं।
हम वीरों के संतान हैं,
संतान को वीर बनाते हैं।

हमको कब बाधायें रोक सकी,
शमा में जलने वाले परवानों को।
गौर से जरा सुन ले दुश्मन,
देश के लिए मर मिटने को तैयार है हमारा तन मन।

हम वीरों के संतान हैं,
संतान को वीर बनाते हैं।

SINGH KANNUPRIYA.B
COMPUTER DEPARTMENT
DIPLOMA SEM-2nd



Hobby Corner (Poem)

परीक्षाएं राक्षसों की तरह होती हैं
अगर आप उनसे कतराते हैं
वे तुम्हें डराते रहेंगे
और खत्म करना जारी रखें जब
वे इससे निपटने का सबसे अच्छा तरीका हैं
आँखों में उनका सामना करना है
एक हत्यारा रवैया के साथ
वह चिल्लाता है, कभी मत कहो मरो
तो कुछ हिम्मत जुटाओ
तनाव को हावी न होने दें
इस तरह आप खुद जीत जाएंगे
जश्न मनाने की वजह.....



**PATHAN VAJIDKHAN
DIPLOMA CHEMICAL
2ND SEMISTER**

Hobby Corner (Poem)

Exams ! Exams ! Exams !

The only occasions when we depend on our alarms!
Staying up late!
And waking up early, we don't even hesitate!
In this state of mind ,
We just focus what is for our kind .

Exams! Exams! Exams!
Why do you stress our palms?
Let it be ticking of clock or any quarter of the day ,
We just pray to god,
Let the exam finish straight away.

Exams! Exams! Exams!
You may be so hard on us,
What you started will be finished by us.
Do you think you are cool,
Naah! you are just a fool,
And I am the only one who is going to Rule!



Janvi Gangvekar
Diploma Computer Engg.
Sem 2

Refugee day

Under the banner of Azadi ka Amrut Mohostav (AKAM) & in association with IQAC, The Mechanical Engineering Department organized the event on 20th June, "DONATE YOUR CLOTHES " ON WORLD REFUGEE DAY. All faculties and students of UPL University donated clothes and it will be given to needy people in the campus, nearby orphanages and poor people. By this event students learned to help others which boost their happiness and sense of well-being.



T-shirt Painting

Department Electrical Engineering Organized “T-Shirt Painting Competition” on 1st July 2022 under the banner of “Azadi Ka Amrut Mahotsav” and the theme was

1. *Indian Patriots: The unsung Heroes*
2. *Renewable Energy & Sustainable Future.*

Aim of this program is to encourage students to display their creativity. 10 students from different branches participated. BE Computer Engineering(Sem. 2) group got 1st prize with Rs. 300/- cash.



Winners -B.E Computer
Engg.(Sem.2)
Harly Patel &
Khushi Bhutani



UPL University of Sustainable Technology

Block no. 402, Ankleshwar – Valia Road,
Taluka :- Valia, District :- Bharuch – 393135
Telephone :- +91-9712177799
Mobile no :- 9727745875/76

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