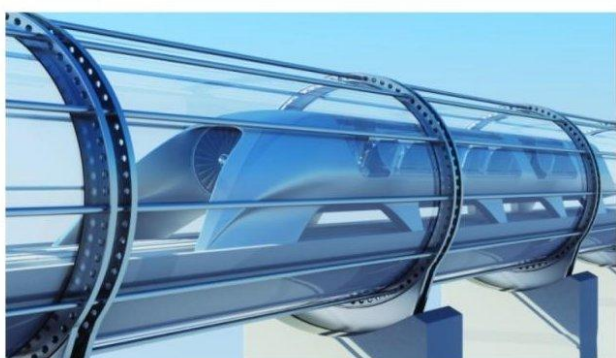


**JANUARY**



**UPL**

**Rotary**



*Kathan*  
ज्ञानम् यजामहे ।



**SHROFF S.R. ROTARY INSTITUTE OF  
CHEMICAL TECHNOLOGY**

**KATHAN**

**23<sup>RD</sup> EDITION  
NEW YEAR SPECIAL**

## **KATHAN – EDITORIAL BOARD**

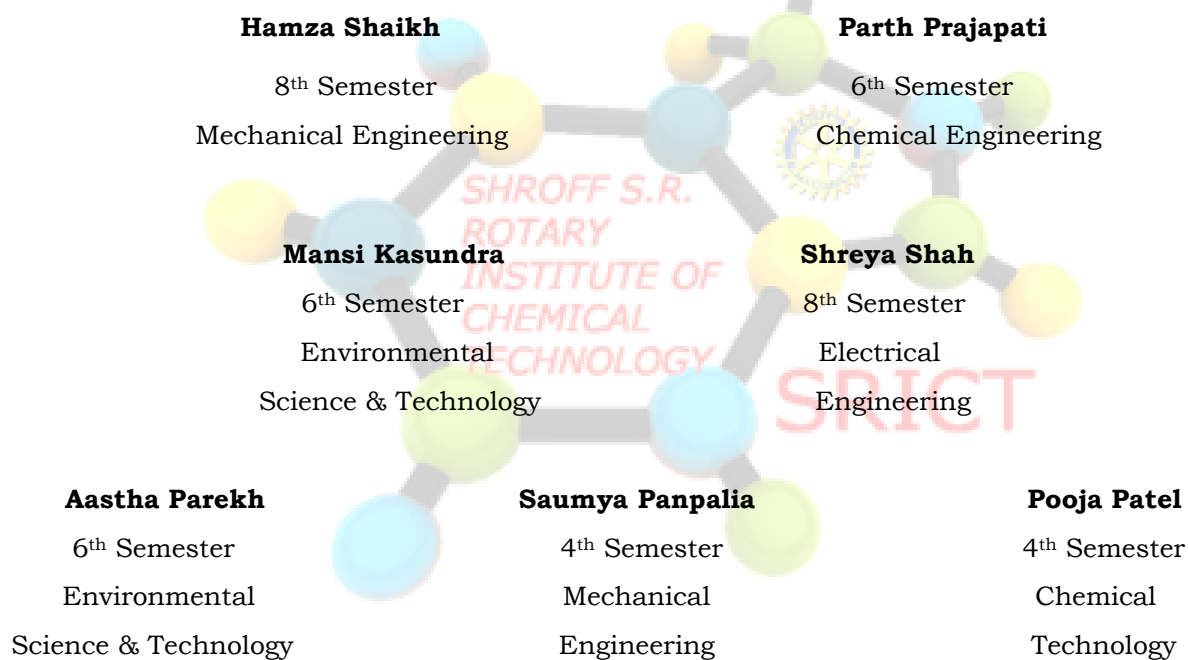
DR. KALYANA SUNDARAM

DR.PRABIR CHANDRA PADHY

MR.AMIT GALPHADE

MS.ANJALI NAIR

**Especially thankful for the enthusiastic and dedicated efforts of:-**



### **ANKLESHWAR ROTARY EDUCATION SOCIETY**

**Chairperson:** Mrs. Sandra R. Shroff  
**Vice Chairman:** Rtn. Ashok A. Panjwani  
**Secretary:** Rtn. Angiras H. Shukla  
**Treasurer:** Rtn. Kishore S. Surti

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## EDITORIAL BOARD MESSAGE

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It gives us immense pleasure to put 23<sup>rd</sup> issue of Kathan in your hands. As always, this issue gives the glimpses of the events that have happened over past few months in SRICT.

Also, as mentioned in the previous issue, we completed the journey of 5 years. We had small celebration to mark the same. Do read about it. Along with this, there are usual sections that cover different articles ranging from scientific articles to literary articles.

The New Year has come and has brought new opportunities for us. It is now up to us to make the best of it. Many times in life we see one side of the coin and without realizing that it will have other side we firmly decide that this is the only side. Let us share one small story to reflect the same.

Once a 20 year boy was travelling in a train along with his father. He was sitting on the window seat. He shouted “Hey dad Look! The trees are passing so fast”.

His father smiled. At the same time there was a middle aged man sitting opposite them. He was finding the behavior of boy very childish.

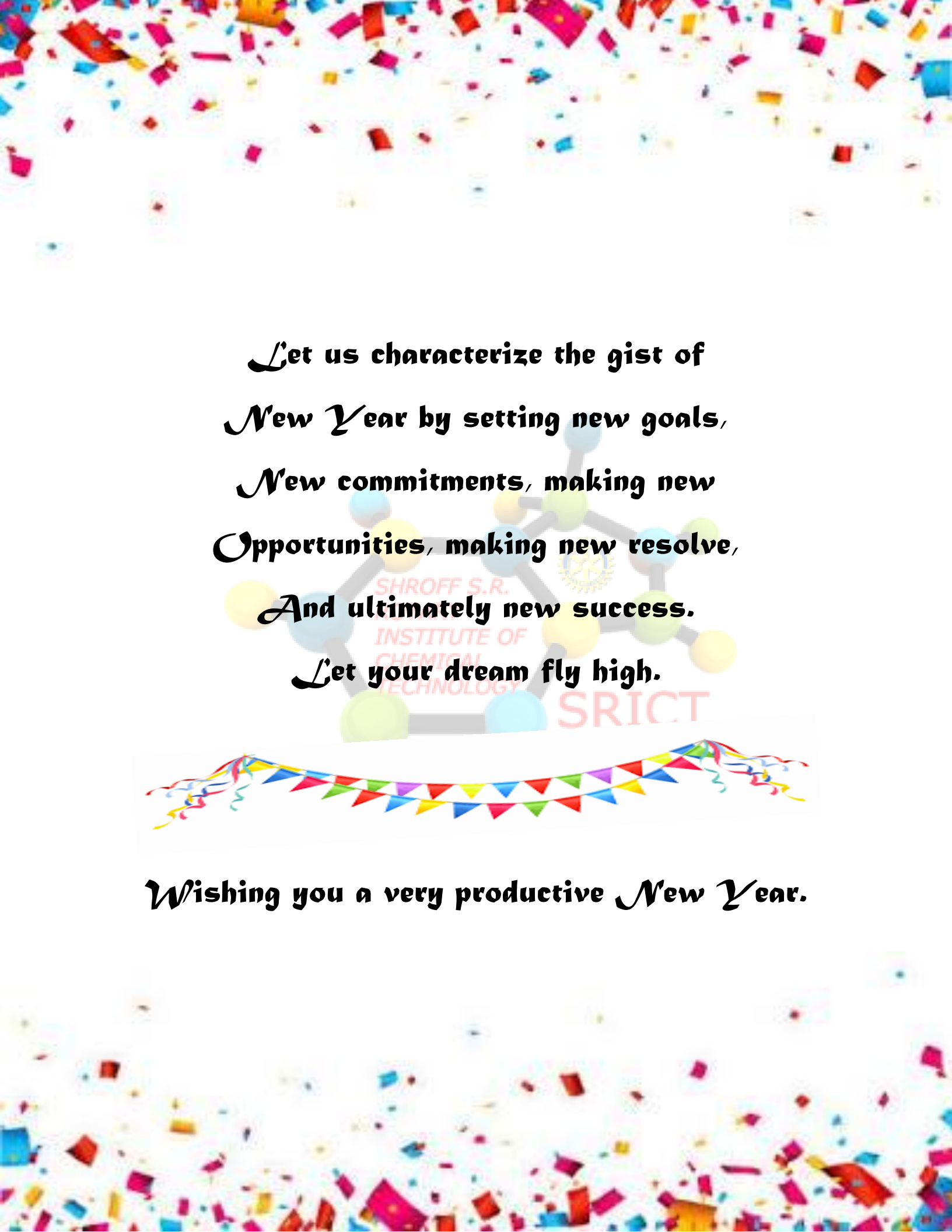
The boy again shouted “Hey dad! Look at that hill. It looks so big!”

The father again smiled.

The man could not constrain himself any longer. He said to the father “I am sorry but why don’t you take your son to the doctor?”

Father replied “Actually we are coming back from the doctor. My son was blind from the birth. He has just got his eyes and now he is seeing for the first time.”

Happy reading.



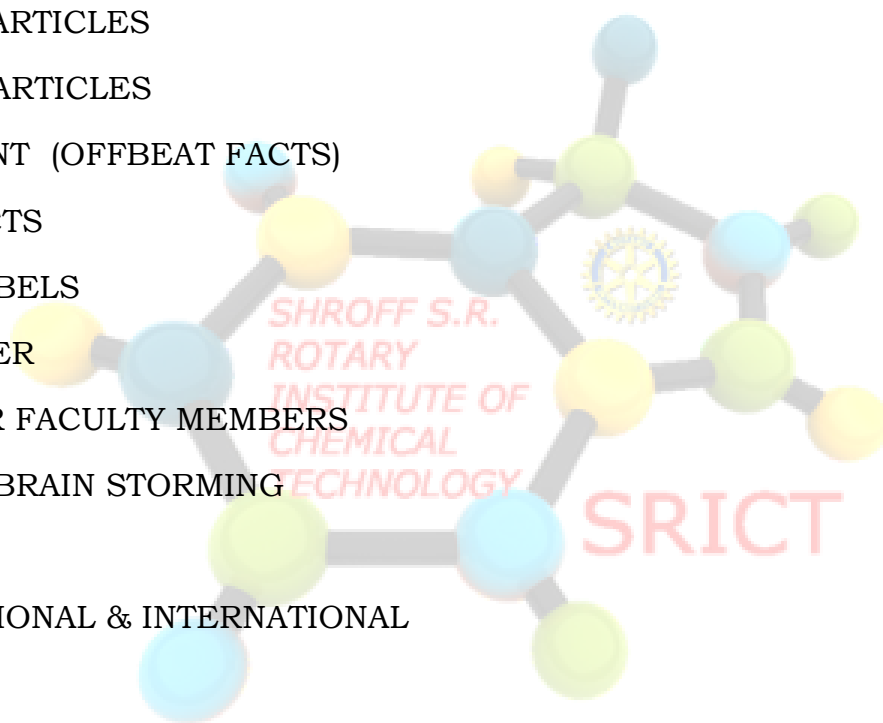
***Let us characterize the gist of  
New Year by setting new goals,  
New commitments, making new  
Opportunities, making new resolve,  
And ultimately new success.  
Let your dream fly high.***



***Wishing you a very productive New Year.***



CONTENTS	PAGE
FROM PRINCIPAL'S DESK	06
SRICT NEWS	07
AGAM	16
EXPERT LECTURES	17
INDUSTRY VISITS	18
SCIENTIFIC ARTICLES	19
GENERAL ARTICLES	28
LITERARY ARTICLES	46
OMNISCIENT (OFFBEAT FACTS)	63
SAVVY FACTS	66
NOBLE NOBELS	67
ART CORNER	68
KNOW OUR FACULTY MEMBERS	69
PUZZLE & BRAIN STORMING	71
JOKES	74
NEWS-NATIONAL & INTERNATIONAL	76



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## FROM PRINCIPAL'S DESK

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DR. KALYANA SUNDARAM

Principal

Extra-Curricular activities constitute an essential part of students' overall physiological and psychological development. SRICT has taken several efforts to promote this and one of them is by means of this Kathan activity. I would like to enthuse students to come up with more creativity in every issue. I wish team Kathan all the best in this Endeavour.

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## SRICT NEWS...

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श्रुति एवं प्रवृत्ति।

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### A FRESHER COURSE ON- “DRYING IN PROCESS INDUSTRY”

[CHEMICAL ENGG DEPARTMENT]

The Department of Chemical Engineering under banner of IICChE, ARC has organized a refresher course on Drying in Process Industries at Shroff S. R. Rotary Institute of Chemical Technology on Friday, 24<sup>th</sup> November 2017. This is the sixth refresher course organized by the Department since 2012. Previously, there have been courses on other unit operations like distillation, heat transfer, mixing, extraction and solid liquid separation. This course covered the basic concept of drying with advanced dryers.

The inaugural function was graced by Dr. P.N. Parameswaran, Trustee, chief Guest Mr. A. K. Sahni, Chairman, IICChE ARC, Dr. Kalyana Sundaram, Principal SRICT and Dr. Alok Gautam Head of Chemical Engineering and coordinator of the course. Mr. Sahni appreciated in his speech the efforts taken by SRICT to interact with industries by these courses. Dr. Sundaram delivered a welcome speech and Dr. Alok

Gautam briefed about the course. The course was well organized by Dr. Shina Gautam, Dr. Sanjiv Dharwadkar, Mr. Hemant Balsora, Mr. Krunal Suthar, Mrs Nirali Tharwala, Mr. Chintan Modi, Mr. Sagar Kapadia, Mr. Niraj Nair, Mr. Jigesh Mehta, Ms. Dhara Rojivadiya, Ms Anita Singh, and Mr. Shivam Pandya.



First session was on Fundamentals

of Drying and delivered by Dr. Anand Metre, Associate Professor, GCET, and V. V. Nagar. Second session was on A Case Study on ANP Granules Drying by Mr. P. D. Ashara, Sr. Chemical Engineer, GNFC, Bharuch. In first two sessions basic and case study were discussed. In next two sessions,

course was moved towards design and troubleshooting.



The third session was delivered by Dr. Sunil S Waje, Manager-Project, UPL-5 Jhagadia who discussed about Classification and Selection of Dryers which is important for energy conservation. Fourth session was delivered by Mr. Nikhil Kulkarni, Director, Analpa Industries who discussed Basic Engineering on Agitated Dryers.

All the sessions were interactive. The participants were from different industries and institutes like UPL, GNFC, Lupin, Coromandel, BEIL Dahej, Sajjan India, Abbott, Isagro Asia, Heubach, Zydus, HLE Engineers Pvt. Ltd, ETL-Ankleshwar, CGPIT- Bardoli, Uka Tarsadia, and GCET etc. Attendees at a seminar shared a common interest in the subject matter. Course helped gaining knowledge in a particular subject area. Feedback of the participants was quite positive.

## PRATIYOGITA-2017

[MATHEMATICS, SCIENCE & HUMANITIES DEPARTMENT]

MSH Department, Shroff S R Rotary Institute of technology, Ankleshwar has organized PRATIYOGITA - 2017 "A state level Essay Competition" for higher Secondary School students of Science Stream .

More than 360 entries received from various schools of Gujarat including Morbi, Gandhidham, Jamnagar, Gandhinagar, Junagadh, Vadhvan, Ahmedabad, Surendranagar, Vansda, Vapi, Navsari, Surat, Ahwa, Bharuch, Ankleshwar, Baroda, Petlad, Bhuj, Rajkot, Botad, Borsad, Valsad, Kim, Sidhpur, Bardoli, Palanpur, Himatnagar etc.

Prize Distribution ceremony was held at institute on 10-11-17. Chief Guest Mr. Amar Srivastava, Rtn. Ashok Panjawani, Rtn. Angiras Shukla, Rtn. Kishor Surti, Trustee Dr. Parmeshwarn Principal Dr. S J Wagh, Dr. Purvi J Naik, HOD, MSH have graced the occasion. Cash prizes worth rupees 74,000/- has been distributed to winners in different languages English, Hindi & Gujarati.

First prize in Hindi was given to GAJJAR JANVI RAJESH, Shri. Matruchhaya kanya Vidyalaya-Bhuj



First prize in English was given to CHAUHAN SHIVANI, Mount Cernel High School, Gandhinagar

First prize in English was given to MORE SAGAR RANJITSINH, I G Desai School, Bhatar Char Rasta, Surat.



## PARENT TEACHER MEETING

[ENVIRONMENTAL, SCIENCE & TECHNOLOGY DEPARTMENT]

Parent Teacher meeting was held on 8-11-17 for first semester Chemical Engineering and Environmental Science & Technology Branch.

This meeting was organized by MSH dept. and addressed by Dr. Purvi J Naik, HOD, and MSH Dept.

Academic progress of Students including their Mid Semester results was discussed. Parents were oriented regarding importance of attendance, GTU exam patterns and rules, motivational policies for students by SRICT management, activities during semester like Industrial visits, expert lectures, Five S, cultural activities etc.



## NCQC 2017

[MATHEMATICS, SCIENCE & HUMANITIES DEPARTMENT]

Dr. Purvi J Naik, FIVE S Coordinator, SRICT had been invited as a judge at NCQC 2017 –“31<sup>st</sup> National Convention on Quality Concepts-2017” organized by QCFL, India. She had to judge 5S and Home Kaizen in Model Presentation Category.

The event was held at JSS Science and Technology University, Mysuru during 1<sup>st</sup> to 4<sup>th</sup> Dec. 2017 in association with QCFI Mysuru Chapter and JSS Science & Technology University. Theme of the convention was “Quality Concepts- Creating value to the society”.



## “SHAKSHATKAAR”

[MATHEMATICS, SCIENCE & HUMANITIES DEPARTMENT]

Since last five years, we are arranging school visits at our Institute. In continuation of the same during current Academic year 2017-18, the following schools had visited our college.

Sr. No.	Name of School	Date	No. of the students
1	KGM, Bharuch	8/7/2017	60
2	Swaminarayn, Bharuch	13/7/2017	65
3	National Ankleshwar	14/7/2017	80
4	Priyadarshini	15/7/2017	70
5	Jay ambe, Ank	15/7/2017	65
6	Gattu School, Ank	20/7/2017	140
7	Swaminarayan Gurukul, Ank	21/7/2017	273
8	Shravanm School, Bharuch	29/7/2017	65
9	Shravan School Ankleshwar	3/8/2017	50
10	Sadhna School, Bharuch	24/8/2017	60

The students of the school were informed about the facilities of the college along with various career options. The students showed their keen interest about their future. The students were very enthusiastic and overall visit was meaningful.




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## “THALASSEMIA AWARENESS CAMP

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[MATHEMATICS, SCIENCE &  
HUMANITIES DEPARTMENT]

Looking forward to comply with the  
Hon. Vice Chancellor's Circular No.  
GTU/VC/Thalassemia/1848/2012,  
Dated 21.02.2012, Gujarat

Technological University,  
Ahmadabad; Shroff S. R. Rotary  
Institute of Chemical Technology  
organized a camp for Thalassemia  
testing on 11<sup>th</sup> August, 2017,  
putting one more step forward in  
continuous efforts of fulfilling social  
responsibility. Seeing the increasing  
numbers of Thalassemia minors in  
Gujarat, The GTU take initiative to  
look in very seriously and introduce  
the Thalassemia as bridge course in  
course curriculum (Subject named  
SCC), Circular No.  
GTU/Academic/Bridge  
Course/2013/6961, Date:  
18/7/2013. The institute took the  
initiative and has been organizing  
such camp since last four years.

**The Committee of following  
members was constituted to carry  
out the camp:**

1. Mrs. Deepika Shah  
(Coordinator and RCC)
2. Mr. Dhanraj Vaghela  
(President Rotaract club of  
SRICT)
3. Mr. Chaitnya (Secretary  
Rotaract club of SRICT)

**Thalassemia Awareness & Testing  
considered as a Mega Event:**

The Institute has decided to make  
an awareness drive as mega event.  
Hence, a camp of Thalassemia  
Awareness & Testing was named as  
**“Rakta Kundali”**



As per the guidelines of GTU the parameters of Social Responsibility, Awareness & the Health of the students have been taken in view of priority.

### **Awareness Drive of Thalassemia:**

The participants have seen the 30 minutes video of Thalassemia Awareness and try to understand the facts of Thalassemia.

### **Participation:**

All students of 1<sup>st</sup> year and D<sub>2</sub>D who registered went through Thalassemia Test & proved their commitment for future healthy society. Total 166 students had Thalassemia Tests at the Institute.

### **Sponsored & Supported by:**

The entire event of Thalassemia Test was sponsored by Rotary Club of Ankleshwar. The Indian Red Cross Society, Ahmadabad carried out the entire camp.

### **Final Analysis:**

Looking into the report received by the institute, total 02 students detected Thalassemia minor, 02 student detected suggestive of Sickle Cell Trait, 01 students detected Suggestive of Hb E-Trait out of 178 students.

### **Future Action:**

The institute will organize the counseling session for students and their parents.



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## **FACULTY ACHIEVEMENT**

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- Mr. Hiren Jariwala, Assistant Professor & Mr. Ankur Gheewala from Department of Electrical Engineering have published a paper in International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017) on the title "Tension Control by Servo Motor in Textile Application using Electronic let off and Electronic Take up Technique"

- Dr. Purvi J. Naik and Dr. Prabir Chandra Padhy, MSH Department, have published a research article on “Industrial visit: Bridge between classroom & cooperate world” in International journal of research in Management & social science, volume 5, issue 4(VIII): October-December 2017, bearing ISSN No.2322-0899, Page 107-113. International journal of research in Management & social science is having impact factor: 3.42 & presently indexed at 55 sites. This journal has been included in UGC approved list of journals and also indexed with Thomson Reuters.

## PARENT MEETING

## TEACHER

### [ELECTRICAL ENGINEERING DEPARTMENT]

Parents meeting of 7<sup>th</sup> sem students was arranged at SRICT on 29<sup>th</sup> Sept, 2017. The presentation includes student's attendance, result analysis of 6<sup>th</sup> sem, bonus marks Criteria, Scholarship Criteria, Training & Placement, Summer training Pilot Action Plan for backlog students. Ms. Richa Dubey interacted with parents about different policies, contribution and planning of SRICT towards to students. Parents asked questions regarding different policies and committed to motivate their children for more hardworking about their

academic progress in last semester. A high tea was also arranged after the completion of meeting. Parents' feedback was very good about SRICT and they appreciated campus discipline. Some of the points which were suggested by parents are:

- 1) Parent should be informed about College's Activity.
- 2) More Focus on Placement.



### Parents' Feedback:

- Good infrastructure and safe environment for educational growth of student.
- Excellent laboratory facility and learned faculties.
- Appreciation for extracurricular and co curricular activities like IEI – Students' chapter, Technovation 2017, Technical Workshops etc.
- Appreciation for motivational awards by management to students' for improved performance in GTU Examinations.
- Appreciated Regular attendance system



- Appreciated quality & standard teaching with industrial visits and expert lectures.
- Very much appreciated discipline and strictness regarding attendance of students.

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## MOTIVATIONAL LECTURE FROM FINAL YEAR STUDENT

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### [ELECTRICAL ENGINEERING DEPARTMENT]

The Department of Electrical Engineering of SRICT had organized its first motivational Lecture by Ms. Asmita Vyavahare (Alumni student - Batch 2012) Executive – Purchase, Gujarat Guardian Limited, Ankleshwar for our 7<sup>th</sup> sem EE students on 5<sup>th</sup> October 2017. She was an asset to SRICT, got many motivational & felicitation awards, also applauded in many social and cultural activities during her college life. After performing splendidly in 4 yrs of her graduation at SRICT, she was placed well in multinational company. She has shared her experience with our final year students of how to accomplish your goal, tips and tricks like how to score well in exams, how to face interviews and all useful strategies which improves the students overall behavior. Overall the session was good and well appreciated by students.




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## WORKSHOP

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### [ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPARTMENT]

- Kunal A. Majmudar from Department of Environmental Science and Technology attended a workshop on “Novel Sanitation and emerging trends in wastewater treatment technologies” from 19-21 Dec, 2017 at BITS Pilani, KK Birla Goa Campus.
- The three days workshop focused on the real life issues faced by the society related to wastewater treatment and management in day to day life and solutions to overcome those problems, along with one day tour to different wastewater treatment plants developed by BITS along with other collaborators.

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## TRAINING

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[ENVIRONMENTAL, SCIENCE & TECHNOLOGY DEPARTMENT]

Ms. Anjali Nair and Mr. Sagar Bhatt from Department of Environmental Science and Technology Attended three Day training program on “Waste and wastewater treatment plant operation” organized by UPL Limited on 21-23 November, 2017 at UPL-1 and UPL-5.

The training was given by Dr. Mritunjay Chaubey, Global Vice President -Environment & Sustainability at UPL.

The training was attended by operators, plant in charge and laboratory persons from waste water treatment plant.

On first day Dr. Mritunjay Chaubey explained the latest technology used in wastewater treatment visited by him at Aquatech Amsterdam, Netherland exhibition which is held at two year interval.

Second day an expert lecture was given by Dr. Snehal Lokhandwala, Head of Environmental science and technology, SRICT on waste water characteristics with water mass balance and experts from Vasu Chemicals delivered expert lecture on cooling tower and membranes used in wastewater treatment. Third day experts from World Water Work explained the working of MBBR and DAF also visited the pilot plant of MBBR at UPL-5. The session was quite interactive, knowledgeable and interesting.



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## अगम

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On 4<sup>th</sup> October 2017 KATHAN has completed its 5 years of journey. For the celebration of completion of 5 years of KATHAN journey MEGA EVENT was organized. This event includes Launching of 22<sup>nd</sup> issue of KATHAN by Chief Guest Mr. Ashok Panjwani, cake cutting, cultural programme that includes classical dance, poetry and mono acts. Participants from different branches took part and gave wonderful performances. All committee members including participants did so much hard work and were equally responsible for the success of event.



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## EXPERT LECTURES

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### [DEPARTMENT OF MECHANICAL ENGINEERING]

- “Maintenance Engineering” for the 3<sup>rd</sup> Semester students on 11<sup>th</sup> October 2017 by Mr. Karsan Mauvar
- “Cement Industry- An Overview” for the 3<sup>rd</sup> Semester students on 12<sup>th</sup> October 2017 by Mr. S. Raja Ganapathy
- “Recent trends after Mechanical Engineering” for the 6<sup>th</sup> and 8<sup>th</sup> Semester students on 8<sup>th</sup> Jan 2018 by Mr. Ravi Singh

### [DEPARTMENT OF ELECTRICAL ENGINEERING]

- “Vedic Maths - A technique for faster calculations and accurate answer” for the 3<sup>rd</sup> & 5<sup>th</sup> Semester EE students on 29<sup>th</sup> Sept 2017 by Ms. Madhu Ars, Senior Manager-Lean Management, UPL, Ankleshwar.
- “Electrical Measuring and Testing Instruments” for the 3<sup>rd</sup> Semester EE students on 8<sup>th</sup> Sept 2017 by Mr. R. B. Kalariya, Manager (Electrical) GNFC, Bharuch.

### [DEPARTMENT OF CHEMICAL TECHNOLOGY]

- “Career options after engineering and how can engineers be efficient managers” for the 5<sup>th</sup> & 7<sup>th</sup> semester CT Students on 5<sup>th</sup> October 2017 by Mr. Darshan Vayeda & Jayshree Rewatkar.
- “Unit operations in chemical industries” for the 3<sup>rd</sup>, 5<sup>th</sup> & 7<sup>th</sup> semester CT Students on 7<sup>th</sup> October 2017 by Mr. Kashyap Desai, manager, Heubach.

**January 11, 1861** - Alabama seceded from the Union in events leading to up the American Civil War.



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## INDUSTRY VISITS

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### [DEPARTMENT OF MECHANICAL ENGINEERING]

- Welmech, Ankleshwar on 28<sup>th</sup> Sept 2017 by 5<sup>th</sup> semester ME students.
- Brakesindia, Jhagadiya on 27<sup>th</sup> Sept 2017 by 7<sup>th</sup> & PG-3<sup>rd</sup> semester ME students.
- Mirinda tools, Ankleshwar on 5<sup>th</sup> Oct 2017 by 3<sup>rd</sup> semester ME students.
- Riddhipharma, Ankleshwar on 5<sup>th</sup> Oct 2017 by 3<sup>rd</sup> semester ME students.

### [DEPARTMENT OF ELECTRICAL ENGINEERING]

- Heubach Colours Pvt Ltd, Ankleshwar on 8<sup>TH</sup> Sept 2017 by 7<sup>th</sup> Sem EE Students.
- Elcop Controls, Bharuch on 9<sup>th</sup> Sept 2017 by 7<sup>th</sup> Sem EE Students.
- Krishna Transformers, Bharuch on 7<sup>th</sup> Sept 2017 by 3<sup>rd</sup> sem EE Students.
- Valia Substation, Valia on 21<sup>st</sup> Sept 2017 by 3<sup>rd</sup> Sem EE Students.

- GSECL Hydro Power Station, Ukai on 6<sup>th</sup> Oct 2017 by 5<sup>th</sup> & 3<sup>rd</sup> Sem EE Students.

### [DEPARTMENT OF CHEMICAL TECHNOLOGY]

- Oasis ceramic PVT Ltd on 21<sup>ST</sup> Sept 2017 by 3<sup>rd</sup>, 5<sup>th</sup> & 7<sup>th</sup> semester CT students.
- Krishna polymers on 29<sup>th</sup> Sept 2017 by 7<sup>th</sup> semester CT student.

### [DEPARTMENT OF MATHEMATICS, SCIENCE & HUMANITIES]

- Analpa Industries on 20<sup>th</sup> Nov 2017 by 1<sup>st</sup> semester EST student.



Perfection is not attainable, but if we chase perfection we can catch excellence.



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## SCIENTIFIC ARTICLES: प्रयुक्तिलेख

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SR.NO.	TITLE	AUTHOR
1.	PLANTS: A TOOL FOR FILTERING POLLUTED AIR	BHASHA MEHTA [EST, ASSISTANT PROFESSOR]
2.	MEMBRANE TURNS CARBON EMISSIONS INTO FUEL	HARIKRISHNA PATEL [EST 5 <sup>TH</sup> SEM]
3.	CONTROL DEVICE WITH THUMB GESTURES	AMAAN MALEK [CE 2 <sup>ND</sup> SEM]
4.	BATTERIES MADE SAFER WITH FIRE-EXTINGUISHING ELECTROLYTES	PRUTHVISH PATEL [EST 6 <sup>TH</sup> SEM]
5.	CORALS GROW IN PATTERN	KWINAL ANTALA [EST 6 <sup>TH</sup> SEM]
6.	OOMBRELLA UNFORGETTABLE UMBRELLA	UDIT DAVE [ME 4 <sup>TH</sup> SEM]
7.	QUELL- PAIN RELIEF WERABLE TECHNOLOGY	KHUSHRGA GUPTA [ME 4 <sup>TH</sup> SEM]

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## PLANTS: A TOOL FOR FILTERING POLLUTED AIR

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[BHASHA CHANDRESH MEHTA  
ASSISTANT PROFESSOR EST  
DEPARTMENT]

Recently air pollution has been one of the major critical problems for survival in our most metropolitan cities. Various costly filters of price ranging from INR.12, 000/- to 1, 00, 000/- are used for the same but they are least efficient as per the advice of doctors. Three types of plants are a major tool for filtering indoor polluted air in terms of increasing concentration of pure oxygen, description of which is given as follows.

### ARECA PALM PLANT

Areca Palm Plant is used for absorption of Carbon Monoxide CO, Carbon Dioxide and Formaldehyde from the polluted air. Keeping 3-4 Plants of shoulder height will retain and maintain indoor air quality as well as will remove all the toxic pollutants from the air.

It needs sunlight after every 3-4 months.

### SNAKE PLANT

Snake Plant is also used for filtering polluted air. It converts carbon dioxide to oxygen during night time also. It also supplies fresh air inside houses. Indoor air inside houses will get purified if 6 plants of 3 feet

height are kept inside house. Snake Plant is also known as Bed Room Plant.

### MONEY PLANT

Money Plant removes chemical toxicants from polluted air and makes it purified. It provides fresh air and occupies less space and also does not require any maintenance.

These three plants which work as efficient filters are not costly and also don't require any extra efforts. Efficient maintenance of them in every house can lead to purified air in entire city.



Fig 1: Areca Palm Plant



Fig 2: Snake Plant



Fig 3: Money Plant

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### REFERENCE

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1. [www.flowerworldusa.com](http://www.flowerworldusa.com)

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## MEMBRANE TURNS CARBON EMISSIONS INTO FUEL

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[HARIKRISHNA PATEL, 6<sup>TH</sup>  
SEMESTER, EST]



Massachusetts Institute of Technology (MIT) scientists have developed a new system that can convert carbon dioxide and other greenhouse gases into useful fuel for cars and aircraft.

The researchers used a membrane — made of lanthanum, calcium, and iron oxide. It allows the oxygen from carbon dioxide to migrate through the membrane to the other side, leaving carbon monoxide behind.

Carbon monoxide produced during this process can be used as a fuel by itself or combined with hydrogen and/or water to make many other liquid hydrocarbon fuels. It can also be used to produce methanol (used as an automotive fuel), syngas, and so on.

This new process could become part of the carbon capture, utilization

and storage (CCUS) technologies. Which if applied to electricity production, could reduce the impact of fossil fuel use on global warming. The membrane is “100 per cent selective for oxygen,” allowing only those atoms to pass, said Xiao-Yu Wu, from MIT.

The researchers used a stream of fuel such as hydrogen or methane which get readily oxidized and draw the oxygen atoms through the membrane. The membrane also prevents the oxygen from migrating back and recombining with the carbon monoxide, to form carbon dioxide all over again.

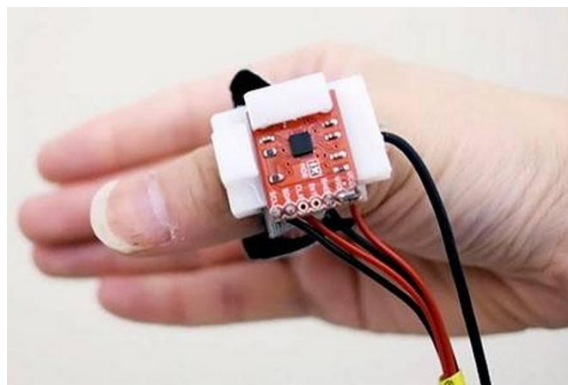
The method may not only cut greenhouse emissions; it could also produce another potential revenue stream to help defray its costs, researchers said.

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## CONTROL DEVICE WITH THUMB GESTURES

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[AMAAN MALEK, 2<sup>ND</sup> SEMESTER,  
CE]



Scientists have created a computing finger ring that can be used to make phone calls, send voicemails or answer text messages — all without the wearer reaching for their phone or even looking at it.

The system called Finger sound is triggered by a thumb ring outfitted with a gyroscope and tiny microphone. It also allows people to trace letters on their fingers and see the figures appear on a nearby computer screen. As wearers strum their thumb across the fingers, the hardware detects movement, said researchers from Georgia Institute of Technology in the U.S.

While other gesture-based systems require the user to perform gestures in the air, Finger sound uses the fingers as a canvas.

This allows the system to clearly recognize the beginning and end of an intended gesture by using the microphone and gyroscope to detect the signal.

“Our system uses sound and movement to identify intended gestures, which improves the accuracy compared to a system just looking for movements,” said Cheng Zhang, from the Georgia Institute of Technology.

“For instance, to a gyroscope, random finger movements during walking may look very similar to the thumb gestures. But based on our investigation, the sounds caused by these daily activities are quite different from each other.”

Finger sound sends the sound captured by the contact microphone and motion data captured by the gyroscope sensor through multiple filtering mechanisms. The system then analyses it to determine whether a gesture was performed or whether it was simply part of daily activity.

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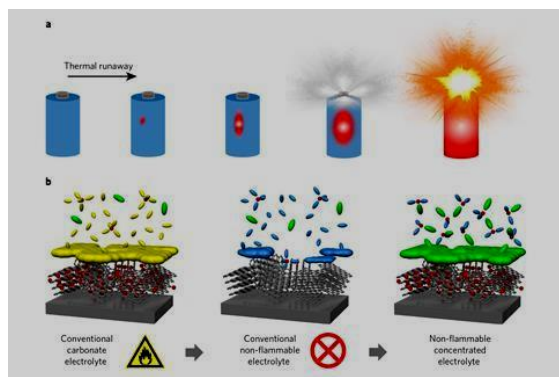
## BATTERIES MADE SAFER WITH FIRE-EXTINGUISHING ELECTROLYTES

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[PRUTHVISH PATEL, 6<sup>TH</sup> SEMESTER, EST]

Fire-resistant battery electrolytes that perform just as well as – and sometimes better than – those currently in use, have been developed by researchers in Japan.

Lithium-ion batteries are at the heart of modern consumer electronics owing to their high voltage and charge density. But the flammable organic electrolytes they contain make them a safety hazard. And the development of sodium-ion batteries for grid storage of renewable energy has been held up over fears that runaway exothermic reactions might propagate through large banks of cells.



Normally the electrolyte in an alkali-ion battery comprises a dilute solution of the alkali metal hexafluorophosphate in a highly flammable mixture of ethylene carbonate and diethyl carbonate. During the first charging cycle, electrolyte decomposes on the anode, forming a thin 'passivation' layer that stabilises the battery during subsequent use. Researchers have previously tried adding flame-retardant chemicals such as trimethyl phosphate to the electrolyte, but they found that the resulting electrolyte did not properly passivate the anode. 'If there is no passivation film,' explains Atsuo Yamada from the University of Tokyo. 'Then, upon charging, the electrolyte is continuously decomposed to generate gas'.

The non-flammable electrolytes Yamada and colleagues developed contain higher concentrations of salts, which form a stable passivation layer on the anode

Yamada and colleagues produced completely flame-retardant lithium

and sodium ion batteries by making alternative electrolytes containing the bis (fluorosulfonyl) imide salt of the appropriate metal dissolved in pure trimethyl phosphate. Crucially, they used much higher salt concentrations than are used in today's commercial batteries, or in previous experiments. When tested, their electrolyte formed a stable passivation layer on the anode despite the absence of any carbonate electrolyte: chemical analysis showed that this passivation layer had been caused by decomposition not of the electrolyte, but of the salt itself.

The sodium-ion battery they made retained 95% capacity after 1,200 cycles, which was far superior to the conventional carbonate electrolyte version, whose capacity decayed significantly after 200 cycles. Their lithium-ion battery performed comparably to test cells using the same chemistry as commercial mobile phone batteries. Yamada cautions that real tests would need to be applied to optimized commercial products, and his university teams do not have the capacity to produce these themselves. He concludes, however, that developing such cells is 'worth trying'.

Rosa Palacín of the Institute of Materials Sciences (ICMAB) in Barcelona, Sapin, says that high-



concentration electrolytes are being explored for other possible advantages such as voltage stability. 'It is a concept that has, for the past few years, been attracting the attention of the scientific community in battery research,' she tells Chemistry World, 'Now this concept appears to have an additional advantage that was not generally identified.'

'More research will have to be done to determine whether this approach can be implemented in commercial batteries in the longer term,' she adds. 'But I think it is an interesting pathway to follow.'

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## CORALS GROW PATTERN

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[KWINAL ANTALA, 6<sup>TH</sup> SEMESTER,  
EST]

The colorful riot of a coral reef might seem chaotic, but new research indicates that it's actually far from random. Scientists have created 3D maps of 17,000 square feet of reefs and discovered that corals grow in patterns. Some species huddle close together, while others are less densely packed. These clusters could protect the corals from danger and give conservationists a blueprint for how to rebuild damaged reefs.

"What was surprising was how even the ones that seemed random were

not random," says coauthor Clinton Edwards, a marine ecologist at the Scripps Institution of Oceanography at the University of California, San Diego. "There's a level of organization that the human eye can't really catch."

To understand how corals are spaced, he and his colleagues swam over the reefs at the Palmyra Atoll National Wildlife Refuge, which lies about 1,000 miles south of Oahu, Hawaii. They photographed more than 44,000 coral colonies from multiple angles, then fused the images together to create three-dimensional maps.

The team then analyzed how various species were scattered across the landscape. They counted the number of corals at different spots on the reef, then calculated how many colonies would be expected in a given space if they really were growing randomly. It turned out that most areas had noticeably more or fewer corals than this average, indicating they were crowded into clusters.

The researchers also used computer models to arrange the corals, and found that clustered patterns best matched how corals actually dotted the reef.

The most densely-populated areas could be seen with the naked eye.

But other clusters were harder to discern. “It looks like a shotgun blast against a wall,” Edwards says. However, only a few species grew in no apparent pattern, and none were sprinkled evenly over the reef.

Clusters seem to be dictated by the ways in which different corals grow and reproduce, Edwards says. The species that clustered most tightly tended to be ones that break apart easily, like stag horn coral. When a chunk is dislodged, it can fall nearby and spawn a new colony. Other corals release their offspring into the water to float around before settling down. These species tended to grow in looser clusters that may depend on where they find available habitat.

A cluster may also form if a storm or bleaching event kills some of the tiny animals called polyps that make up a coral. Any surviving patches of tissue will begin to grow afresh, creating a constellation of new colonies where a single coral once stood.

Corals likely enjoy a few perks from living near each other. Being tucked within a cluster may provide shelter from predators. And the more corals occupy a patch of land, the better they can break up oncoming waves. This means each coral is less likely to be dislodged during a storm. A cluster can also disrupt seawater as

it flows over the reef so it swirls around and better distributes nutrients among the colony. More neighbors mean more potential mates, too. “You want to be close together so you give your babies the best chance of being fertilized,” Edwards says.

After a storm or other trauma, corals might be more likely to thrive if conservationists re-plant them in clusters rather than spacing them evenly over the reef. The species used in coral restoration efforts tend to be ones that crumble easily; should the pieces land on another coral, they can fasten onto it and start re-growing. But if a coral is without neighbors, those fragments drift to ground. “It’s going to be a lot harder for it to find a good spot to reattach,” Edwards says.

In future, the team will track how successful coral clusters are over time. They hope to identify patterns that signal a healthy reef so researchers can mimic them when rehabilitating coral reefs and planning marine protected areas.

“Corals are kind of the trees of the underwater world,” says Edwards, who reported the findings October 12 in the journal *Coral Reefs*. “They create these underwater forests and they’re stuck in place. So space for a coral is everything. Where it is on the landscape is everything.”

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## OOMBRELLA: UNFORGETTABLE UMBRELLA

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[UDIT DAVE, 4<sup>TH</sup> SEMESTER, ME]



Oombrella is a smart umbrella that alerts you before it rains and also alerts if you leave it behind, through notifications. When its forecast to rain outside soon, Oombrella will send an alert to your smartphone precisely where and when you need an umbrella. Oombrella gets the weather forecast from the Wezzoo, a social and real-time weather service.

Now you cannot leave the umbrella even in at restaurant or party. When you are 30/50m -100/130 feet away from the

Moreover, the design of Oombrella Oombrella, your smartphone will notify you. In addition, an integrated buzzer and a light inside the capsule will alert the user about an incoming call on the smartphone or an important notification. Is eye-catching. The umbrella shade is made with a shiny material with

bright effects and smoothest noise under the rain. Furthermore, it's UV resistant and windproof! Available in three different colors, the Shiny, the Black Edition and the White Edition along with two sizes - classic (95cm long (3.1 feet) with a curved handle) and fit-in-my-bag (25 cm long (0.82 feet) with a straight handle).

No more worries about heavier winds. The kevlar-made ribs help Oombrella to withstand the high winds including hailstorms and snowstorms. Moreover, the Oombrella's capsule ensures a more comfortable, ergonomic and distinct grip.

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## QUELL- PAIN RELIEF WEARABLE TECHNOLOGY

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[KUSHARGH GUPTA, 4<sup>TH</sup> SEMSETR, ME]



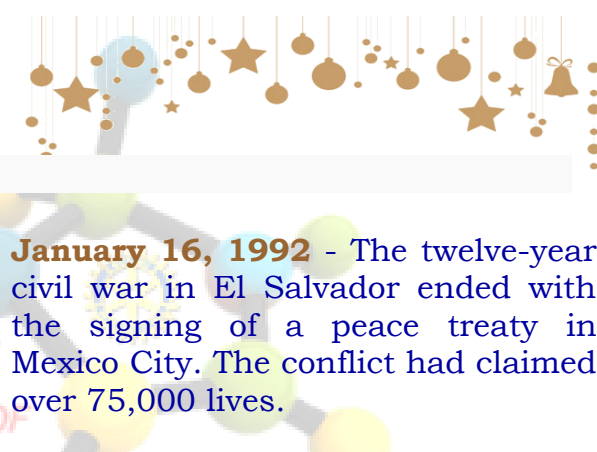
Be it a nerve pain or an arthritic and joint pain, or a leg and foot pain, or a widespread pain or a lower back

pain, Quell can help with the pain relief. Quell is a 100% drug-free wearable chronic pain relief technology.

As the Quell is worn on the upper calf, it stimulates sensory nerves, which carry neural pulses to your brain. These pulses tap into the body's natural pain relief response and thus blocking pain signals in your body for a widespread pain relief.

Enabled by Bluetooth, the Quell Android, and iOS app lets you control therapy right from your smartphone. In addition to adjusting the intensity of the therapy, you can also start and stop the therapy sessions. Moreover, you can review therapy and sleep trends over time in 1 day to 3 months on the customizable therapy and sleep tracking screens. You can also monitor 8 important dimensions of sleep such as your body movement, the position of the chronic pain area during the night, etc.

Quell is simple to use. All you need to do is just snap in the electrode and wrap around the calf followed by turning on the device. Created by a team of scientists and engineers at NeuroMetrix, this technology is FDA approved.



**January 16, 1992** - The twelve-year civil war in El Salvador ended with the signing of a peace treaty in Mexico City. The conflict had claimed over 75,000 lives.

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## GENERAL ARTICLES

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SR.NO.	TITLE	AUTHOR
1.	LIFE IS JOURNEY, NOT A DESTINATION	SAGAR BHATT [ASSISTANT PROFESSOR ,EST]
2.	SAVE WATER	OM PRAKASH [ASSISTANT PROFESSOR, GE]
3.	IMPROVEMENT	PARTH PRAJAPATI [CE 6 <sup>TH</sup> SEM]
4.	DIWALI LIKE SHINING THROUGHOUT YEAR	HAMZA SHAIKH [ME 8 <sup>TH</sup> SEM]
5.	SPEAKING YOUR TRUTH- THE HIGHEST FORM OF COURAGE.	CHAITANYA VAGHELA [CE 6 <sup>TH</sup> SEM]
6.	DOPAMINE ADDICTION	RUCHIT SHOEMAKER [ME-THERMAL ENGG(PG), 4 <sup>TH</sup> SEM]
7.	SELF IMMOLATION	RUCHIT SHOEMAKER [ME-THERMAL ENGG(PG), 4 <sup>TH</sup> SEM]



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## LIFE IS JOURNEY, NOT A DESTINATION

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[SAGAR BHATT, ASSISTANT PROFESSOR, EST]

Life can't be described by only one or two words. It is the mixture of everything. The mixture of happiness and sadness, success and failure, comfort and pain, opportunities, frustrations, love and hatred, relief and sorrow, struggle and giving up. Life is not perfect, but it is beautiful.

Life is a journey, not a destination. Everyone takes every step in a very unique way. This journey may take you down by great storms and bumpy road but it does not matter, what matter the most is how many times you stand-up to continue. Each moment on journey of life you are presented with an opportunity to react differently. You have the power to change things and not walk around in a constant circle.

Life is not all about lying down in a bed of roses. There are points in our life that we will be wounded by the thorns of life. We will feel the pain of loss, loneliness, failure and rejection but one thing is clear, there is peace after everything. There is rainbow after the rain.

Life is a lifetime challenge. Everyone has his burden but what

counts is how you carry it. It doesn't matter if you win or lose. The important thing is how you made it and what you feel about it. You are successful if you feel the contentment and you know in your heart that you made it in a good way.

Life offers many opportunities. It is up to you if you will grab it or you will let it pass. Sometimes, there are opportunities that are not really meant for you. Keep in mind that the failure you once experienced is not the end of everything. There are lots of opportunities for you and the only thing you must do is to choose and strive for it.

Life is all about love. But sometimes there is less love in the heart of someone so there is having space for hatred. Sometimes, there is too much love that it created hatred. Insecurities and selfishness takes place when there is too much love. We must always remember that balance is one of the important things in life.

Life is a beautiful struggle. You must keep the journey going not because of the guarantee but because of the possibility. Sometimes struggles are exactly what you need in our life. If you were to go through our life without any obstacles, you would be

crippled. You would not be as strong as what we could have been. Give every opportunity a chance, leave no room for regrets, and don't forget the power in the struggle. But sometimes, giving-up for something is the best choice. Giving-up for the things we struggled for doesn't always mean we are weak. It simply means that we want to take another opportunity and we will try again to succeed. Do not be afraid of change. It is important to be happy, and sometimes the only way to find happiness is by letting go of what we have been clinging on to for so long. This is not a negative thing; it is creating a new life.

Life is a journey with so many options. A world to discover, dreams to chase, goals to achieve, and hangout with friend. There will be times you may not know what you want, who you want, or where you want to go. In these moments, always remember, the best choice is standing still.

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## REFERENCE

<https://www.wattpad.com/2367541-life-is-a-journey-not-a-destination>

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## SAVE WATER

[OM PRAKASH SINGH, ASSISTANT PROFESSOR, GENERAL ENGINEERING]

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### SAVEWATER

We spend our hard-fore we spend our hard-earned money precious natural heritage on building more dams, let's take a closer look at the potential and promise of municipal water conservation and how tapping this water supply will save water, save rivers, and save money.

**Water conservation** includes all the policies, strategies and activities to sustainably manage the natural resource of fresh water, to protect the hydrosphere, and to meet the current and future human demand. Population, household size, and growth and affluence all affect how much water is used. Factors such as climate change have increased pressures on natural water resources especially in manufacturing and agricultural irrigation. Many Indian cities have already implemented policies aimed at water conservation, with much success.

The goals of water conservation efforts include:

- Ensuring availability of water for future generations where the withdrawal

of freshwater from an ecosystem does not exceed its natural replacement rate.

- Energy conservation as water pumping, delivery and wastewater treatment facilities consume a significant amount of energy. In some regions of the world over 15% of total electricity consumption is devoted to water management.
- Habitat conservation where minimizing human water use helps to preserve freshwater habitats for local wildlife and migrating waterfowl, but also water quality

### **Modern India Can Learn a Lot from These Traditional Water Conservation Systems**

We all know water is essential, but too many of us think it's unlimited. In reality, fresh water is a finite resource that is rapidly becoming scarce. In India, a warming climate is drying up lakes and rivers, while rapid urbanization and water pollution are putting enormous pressure on the quantity and quality of surface and ground water. The country's fragile agricultural system still depends primarily on rainfall and a bad monsoon season can

wreak havoc on the national economy.

#### **1. Jhalara**

Jhalaras are typically rectangular-shaped stepwells that have tiered steps on three or four sides. These stepwells collect the subterranean seepage of an upstream reservoir or a lake. Jhalaras were built to ensure easy and regular supply of water for religious rites, royal ceremonies and community use.



#### **2. Talab**

Talabs are reservoirs that store water for household consumption and drinking purposes. They may be natural, such as the ponds at Tikamgarh in the Bundelkhand region or man-made, such as the lakes of Udaipur.



### 3. Bawari

Bawaris are unique stepwells that were once a part of the ancient networks of water storage in the cities of Rajasthan. The little rain that the region received would be diverted to man-made tanks through canals built on the hilly outskirts of cities. The water would then percolate into the ground, raising the water table and recharging a deep and intricate network of aquifers.



### 4. Taanka

Taanka is a traditional rainwater harvesting technique indigenous to the Thar Desert region of Rajasthan. A Taanka is a cylindrical paved underground pit into which rainwater from rooftops, courtyards or artificially prepared catchments flows. Once completely filled, the water stored in a Taanka can last throughout the dry season and is sufficient for a family of 5-6 members. An important element of water security in these arid regions, Taankas can save families from the

everyday drudgery of fetching water from distant sources.



### 5. Baoli

Built by the nobility for civic, strategic or philanthropic reasons, baolis were secular structures from which everyone could draw water. These beautiful stepwells typically have beautiful arches, carved motifs and sometimes, rooms on their sides. The locations of baolis often suggest the way in which they were used. Baolis within villages were mainly used for utilitarian purposes and social gatherings.





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## IMPROVEMENT

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[PARTH PRAJAPATI, 6<sup>TH</sup> SEMESTER, CE]

### What is Continuous Improvement?

Let's define continuous improvement. Continuous improvement is a dedication to making small changes and improvements every day, with the expectation that those small improvements will add up to something significant.

The typical approach to self-improvement is to set a large goal, and then try to take big leaps in order to accomplish the goal in as little time as possible. While this may sound good in theory, it often ends in burnout, frustration, and failure. Instead, we should focus on continuous improvement by slowly and slightly adjusting our normal everyday habits and behaviors.

It is so easy to dismiss the value of making slightly better decisions on a daily basis. Sticking with the fundamentals is not impressive. Falling in love with boredom is not sexy. Getting one percent better isn't going to make headlines.

There is one thing about it though: it works.

### How Does Continuous Improvement Work?

So often we convince ourselves that change is only meaningful if there is some large, visible outcome associated with it. Whether it is losing weight, building a business, travelling the world or any other goal, we often put pressure on us to make some earth-shattering improvement that everyone will talk about.

Meanwhile, improving by just 1 percent isn't notable (and sometimes it isn't even *noticeable*). But it can be just as meaningful, especially in the long run.

In the beginning, there is basically no difference between making a choice that is 1 percent better or 1 percent worse. (In other words, it won't impact you very much today.) But as time goes on, these small improvements or declines compound and you suddenly find a very big gap between people who make slightly better decisions on a daily basis and those who don't.

**If you get one percent better each day for one year, you'll end up thirty-seven times better by the time you're done.**

This is why small choices don't make much of a difference at the time, but add up over the long-term.

For much more on this concept (and an example of a coach who used it achieves huge Olympic success), read this: *This Coach Improved Every Tiny Thing by 1 Percent and Here's What Happened*.

## Continuous Improvement Tools

Now, let's talk about a few quick steps you can take right now to start focusing on continuous improvement.

**Step 1:** Do more of what already works

We often waste the resources and ideas at our fingertips because they don't seem new and exciting.

There are many examples of behaviors, big and small, that have the opportunity to drive progress in our lives if we just did them with more consistency. Flossing every day. Never missing workouts. Performing fundamental business tasks each day, not just when you have time. Apologizing more often. Writing Thank You notes each week.

Progress often hides behind boring solutions and underused insights. You don't need more information. You don't need a better strategy. You just need to do more of what already works.

**Step 2:** Avoid tiny losses

In many cases, improvement is not about doing more things right, but about doing fewer things wrong.

This is a concept called improvement by subtraction, which is focused on doing less of what doesn't work: eliminating mistakes, reducing complexity, and stripping away the inessential.

Here are some examples:

- **Education:** Avoid stupid mistakes, make fewer mental errors.
- **Investing:** Never lose money, limit your risk.
- **Web Design:** Remove the on-page elements that distract visitors.
- **Exercise:** Miss fewer workouts.
- **Nutrition:** Eat fewer unhealthy foods.

In the real world, it is often easier to improve your performance by cutting the downside rather than capturing the upside. Subtraction is more practical than addition.

One of the best ways to make big gains is to avoid tiny losses.

**Step 3:** Measure backward

We often measure our progress by looking forward. We set goals. We plan milestones for our progress. Basically, we try to predict the future to some degree.

There is an opposite and, I think, more useful approach: measure backward, not forward.

Measuring backward means you make decisions based on what has already happened, not on what you want to happen.

Here are a few examples:

- **Weight Loss:** Measure your calorie intake. Did you eat 3,500 calories per day last week? Focus on averaging 3,400 per day this week.
- **Strength Training:** Oh, you squatted 250 pounds for 5 sets of 5 reps last week? Give 255 pounds a try this week.
- **Relationships:** How many new people did you meet last week? Zero? Focus on introducing yourself to one new person this week.
- **Entrepreneurship:** You only landed two clients last week while your average is five? It sounds like you should be focused on making more sales calls this week.

## DIWALI LIKE SHINING THROUGHOUT YEAR

[HAMZA SHAIKH, 7<sup>TH</sup> SEMESTER, ME]

Is 5S is only for industry or factory?? No, nothing Empirical like that. We can implement 5S anywhere where we find Ergonomics (relation between man and machine) or the place which is been utilized by human. 5S is one of the lean

concepts which is hectic to implement but the “LADDU” can be eaten throughout the year.

As per Indian culture we properly clean, decorate, do wall painting, purchase new goods and do lighting on Diwali. In this festival season whole house get indulged in this “Swatch Gharr Abhiyan”. We give full effort to make our house neat and tidy. After Diwali up to 3-4 months all the stuff is easily available to use or in order or in shiny condition. But after that it started becoming dull and untidy (still grooming and floor cleaning done regularly!!) So the solution is very clear than why we are not implementing 5S at home??

‘5S at home’ sounds not so cool but the benefit we get is infinite. A large number of home makers wish to be efficient. And they should be. Why not? They wish to hurry up everything because of lack of time and compulsions of punctuality for every activity. Then, for accomplishing it, they take out everything that is needed to finish up that job within the time available. Let’s consider kitchen which is heart of every home. We all have marked that apart from Mom, Sister and Grandma no other female can find stuff easily. So here there is a Scope. In cabinet drawers one can put sticker to standardize (SEIKETSU) and the vessels/storage

box/container which are used more can be kept in first row and so on which is (SEITON AND SEIRI). Later regular cleaning is required which means (SEISO) and last to maintain for hygiene (SHITSUKE) is always there. Same thing can be done on fridge also. As the food which is placed in fridge is two days old, put it in garbage or give it to animals (SEIRI). This is just one example there are many areas which 5S should be there. One can plan out her/his cooking sequence also. Take out one thing at a time from the cupboards that are just a step away from you in the kitchen; they are not far away from you. After you have used that thing, put it back in the cupboard in its place immediately. The time taken to use that item is the same, you are not taking any extra time or losing any time. You are as efficient. Do this for each item of use. Take it out, use it and place it back in the same condition in which you took it (if there was a lid on bottle, place it back securely) and position it in the same place from where you took it out. You will take same amount of time and there would not be any clutter around. The kitchen will look tidy and will be a safe place to work.

➤ 5 S- Five Steps to Prosperity and Success for Your Home:-

- SEIRI (Sort out and dispose) Eliminate unnecessary things. Keep only what is needed. Undertake major cleaning. Save money on buying unnecessary additional storage equipment and space.
- SEITON (Place for everything and everything in place) Establish a neat layout to fix storage places and the methods, and stick to the rules. Eliminate search time and therefore, stresses and strains. Save money by not purchasing the items now easily available at home.
- SEISO (Scrub, dusting and cleaning) Understanding that cleanliness is a form of inspection. Establish state of cleanliness commensurate to your needs. Involve every individual. Achieve zero grime and zero dirt. Give a definite time each day for cleaning.
- SEIKETSU (standardize the methods of 5S and environmental upkeep) Establish standards for maintaining. Add color and use innovative visible management so that abnormalities show up for early action. Also make sure that you contribute to environmental upkeep.
- SHITSUKE (Self discipline and training) Feeling accountable



and setting examples to maintain the established procedures of orderliness and neatness. Full participation in developing and practicing good habits.

➤ Benefits of Adopting 5S Housekeeping at Home:-

- Home looks clean, tidy and beautiful.
- Feels great to live in such a home.
- Impresses ever one.
- Improves hygiene at home.
- No one at home wastes any time in searching and retrieving the things.
- Home is a safe place now.
- The environment around is clean and healthy.
- There is no clutter around.
- You don't need to spend money to procure additional storage space or equipment for that clutter (had you not done the 5S Housekeeping, the clutter would have increased). So, you are saving lots of money.

You will experience more and more surprising advantages as you start implementing 5S Housekeeping at home.

➤ After 5S implementation, the implementer with his family has to go through this “30 Seconds” test. Find.....

- A particular medicine; say antacid tablets, pain killers, your daily medicines doctor prescribed, sprain cream etc.
- Postage and related material: say stamps, envelopes, inland letters, post cards, glue, gem clips, stapler, staple pins, stationery etc.
- Bank documents; like pay-in-slips, check books etc.
- Income tax related documents; like papers related to your investments, previous years' income tax returns etc.
- Electricity/power bills, telephone bills, water bills, corporation tax bills etc.
- Telephone numbers and addresses of your particular relative or friend or your or your spouse's particular colleague.
- Writing pad and pen/pencil to take down the messages over the telephone.
- Locks and keys of your house, scooters, car(s), cupboards, safe deposit lockers, office, the keys and locks of your suitcases, brief cases etc.
- Desired pair of shoes/footwear, matching

- clothes, hairpins, kerchief, nail polish, lip stick etc.
- Children's school bag, books, notebooks, their shoes/footwear, socks, progress cards, I-cards, date of birth certificate, their particular toys, ink bottles, pens, pencils etc.
- The stitching kit like pairs of scissors, sewing needles, threads of particular colors and types, buttons of various types, measuring tape, knives etc.
- Towels, toothpaste, tooth brushes, soaps, detergents.
- Candles and match box when the light/power goes off suddenly.
- The tong, the gas lighter, the hand mixer, right kind of serving bowls, right kind of cutlery, cups and saucers.
- The cooking recipes you so diligently took down from a TV program, or copied from a magazine or web site.
- A particular novel or book/magazine you wish to read today, now.
- Your housecoat when suddenly some guests arrive and you have to receive them at your door.
- The money or change you kept some where.

- Your or your spouse's I-cards, credit cards, pass ports, club membership cards etc.
- Shoe polish of various colors and types, shoe brushes, shoe laces etc.



This all stuff you will get in less than 20 second, BELIEVE ME!!!! If we start with 5S at home (and no more Diwali cleaning, as a result), it will be easier to remember it at work too. As seen above, the methodology is very simple. Just do it ones and your family will feel more efficient than ever. There is huge scope of 5S in each field & every sector.

**"PREPARE A ROADMAP,  
IMPLEMENT 5S AND BEING  
PROSPEROUS"**

**"हर दिन दिवाली; 5S वाली"**

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## SPEAKING YOUR TRUTH-HIGH FORM OF COURAGE

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[CHAITANYA VAGHELA, 6<sup>TH</sup> SEMESTER, CE]

INSIDE THE SOUL OF ISLAM - A UNIQUE VIEW INTO THE LOVE, BEAUTY, AND WISDOM OF ISLAM FOR SPIRITUAL SEEKERS OF ALL FAITHS, for a spiritual seeker, Truth is the aim. When we hear it, it resonates with our souls. As much as it's a delight for us to hear words of truth, it's harmful for us to speak anything other than truth.

In the Islamic spiritual tradition, there are 20 destructive qualities of the tongue and only one praiseworthy quality: **'speaking truth.'**

Speaking the truth is one of the most highly emphasized 'good actions' in Islam. The most direct and powerful way for us to improve our character, and increase our personal ethical and spiritual awareness, is to be deliberately impeccable with the power of our word.

Instead of trying to use willpower to force ourselves to be more truthful, we can insightfully be transformed by exploring these questions:

**'WHAT IS IT THAT PREVENTS US FROM BEING TRUTHFUL?'**

**'WHY IS IT THAT WE'RE SOMETIMES DECEITFUL, OR AVOID SPEAKING TRUTHFULLY AND KINDLY TO PEOPLE?'**

### **The Psychology of Deceit**

There are two main reasons we lie and insult others: because we fear harm and because we desire benefit, both natural human inclinations.

The mistake is to believe that lying or insulting others will get us there. This mistake is rooted in the psychological **Outside-In Illusion**, but this isn't obvious until we explore it in more depth.

All of our fears are fears of feelings: we think that if things don't turn out the way we want them to, we'll feel bad.

All of our desires are also desires of feelings: we think that if things DO turn out the way we want them to, we'll feel good.

The truth is that feelings can't come from anything other than thought in the moment. So, what do we really desire? And what are we really afraid of?

**We spend our whole lives doing anything and everything necessary to fix and change the outside world - all to gain for ourselves something that can come only from within.**

Part of this attempt to control the outside world in a futile attempt to

feel better, involves lying to those we love, or not having the courage to tell them the truth.

As the Prophet, peace and blessings upon him, said:

‘SPEAK TRUTH, EVEN THOUGH IT IS BITTER.’

### **Courage from the Inside-Out**

In Islam, **speaking the truth to someone more powerful than you is considered the highest form of courage.**

In the story of Moses, peace and blessings upon him, the prophet was told by Allah to go to the Pharaoh of Egypt, the biggest, most terrifying tyrant on the face of the Earth at that time, who had been killing the first-born males in each family because of a dream he’d had.

The pharaoh was persecuting the Jews, and of course he had it in for Moses. And yet the Quran says that Allah said to Moses:

‘And speak to him [the Pharaoh] with gentle words, so that perhaps he may be reminded...’

How was Moses, peace and blessings upon him, expected to be courageous enough to speak with this terrifyingly powerful dictator using GENTLE words?!

Knowing the Inside-Out, this becomes easier to understand: a

tyrant literally doesn’t have the ability to CAUSE fear inside anyone.

**There’s no doubt he could harm us physically, but fearing that harm in advance is something that we do in our own minds.**

When I was fearful of talking to my parents about a relationship I was in, my mentor, Dr. Keith Blevens said to me:

‘IF YOU KNEW YOUR FEAR WAS JUST COMING FROM THE WAY YOU’RE THINKING, YOU WOULDN’T REALLY BE AFRAID ANYMORE.

You can’t really be afraid of something that you know you’re creating. No one is ever really afraid of something they know they’re creating.

‘If you are afraid of it, you clearly don’t know that it’s your own thinking that’s causing your fearful feeling.

That would be like drawing a picture of a scary monster, then running out of the room screaming because of the scary monster you’d just drawn.’

The moment he said that, I burst out laughing and suddenly, insightfully, I saw the truth of the Inside-Out Paradigm – yet again.

I genuinely knew that my fear was just thought, and that I didn’t need



to be concerned about it because the feeling had literally NOTHING to do with the relationship, or my parents, or the conversation I was concerned about having.

I knew it was just coming from thought in that moment, which would pass effortlessly, as it always, does.

When I did speak with my parents, at first they were surprisingly supportive. And although in the end that relationship didn't work out, I now know that I'm able to speak to my parents truthfully, even when I'm pretty certain they won't agree with where I stand.

## DOPAMINE ADDICTION

[RUCHIT SHOEMAKER, 4<sup>TH</sup> SEMESTER, (THERMAL ENGG.-PG) MECHANICAL ENGG. DEPARTMENT]

A few days ago, I was overburdened with assignments, presentations and tasks, but I had the good luck of having a 3 day holiday to complete them. I already estimated that all these tasks could easily be completed in just one day if I set my mind to do them. That way I could easily spend the other two days at ease and study something else. I was really determined to do that; but I couldn't. What went wrong?

I started the assignments and within 3 hours, all my enthusiasm started to wear off. The mental load was not very great but the

endurance demanded by the task was too much to bear; *it seemed*. But the reality was something else.

Just recently we had an over night CS (Counter strike) session with 6 hours of continuous game play. At the end of it, my hands were certainly numb, but my mind wasn't tired, it could go on playing away. And I wasn't distracted by anything in my surroundings, I didn't think of anything else to do. Whereas while doing the assignments, I had a constant desire to open Whatsapp, Facebook or anything else! So basically, the mind does have the endurance to take up herculean tasks that require constant concentration but it fails to deliver when required. It wasn't just procrastination, or lack of interest, it was the lack of short term profits.

I emphasize short term because even the assignments would yield me results in the form of grades but they aren't to be received until the end of the semester. The current generation minds thrive purely on dopamine generation, the happy drug. When I played CS, each kill gave me a sense of accomplishment, hence secreting the drug.

In case of assignments, the task did not give me a real time feedback of the outcomes, it was for a long term result and the brain couldn't wait that long. It needed an outlet, an escape to recharge again so it created a thrive for something that would help secrete the dopamine to keep me active. The same happens

with me on the days of exams; I get an instant crave for something scrumptious. I guess everyone gets the same desire, with different levels, but we cannot deny it, we are all dopamine addicts.

Dopamine is a neurotransmitter. It controls the pleasure of the brain bringing happiness joy emotion responses. Dopamine levels can fall due to poor nutrition and lack of sleep stress in a depression mood swings cravings drugs and more. If you're struggling with depression you will want to increase dopamine levels.

How to increase your dopamine levels naturally:

### **Exercise**

Exercise helps relieve stress increase productivity and increase dopamine levels. So keep your body active.

### **Music**

Listen to music you love help you in a good mood. Music has therapy and can increase your dopamine levels temporarily choir listening to it.

### **Be creative**

Being creative is a way to naturally increase your dopamine levels. It helps you feel good achieve goals and be inspired. When artists become focused and start getting a flow dopamine is a brain chemical that allows a person to achieve a flow state so being creative and in this sense of productivity can help.

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## SMALL STORY ON 'SELF-IMMOLATION' – IT WILL CHANGE THE WAY OF VIWEING THE LIFE

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[RUCHIT SHOEMAKER, 4<sup>TH</sup> SEMESTER, (THERMAL ENGG.-PG) MECHANICAL ENGG. DEPARTMENT]

The problem is not that there are problems. The problem is expecting otherwise and thinking that having problems is a problem.

It was a sunny Sunday morning with gentle coolness in the gust. Rahul as usual went to his favorite place where he goes every weekend. The purpose of his visit is to have some time for mental calmness in the arms of nature.

Apart from that he goes there to find the purpose of his life as he believes that everyone sent on the earth, has a particular task or purpose to complete and he has still not found his purpose for which he was sent on earth.

Let me describe you the place. Situated on the outskirts of one of the famous cosmopolitan city, the place is full of small undulating lush green hills & slopes, with a cliff at the center higher than other slopes. The cliff is located in such a way so as to get the view of sunrise and sunset in a perfect way. That's why quite from some time it had become a tourist spot.

But Rahul usually comes in the morning for the sunrise. As the rays

of the sun slightly shine above the horizon removing the darkness in its vicinity and slowly coming above the horizon, the rays as if entangled with the mountain range with its golden threads providing a blanket of clouds around it. The scene was simply magnificent and inexpressible. But then something disturbing happens.

There comes a luxury black sedan which halts near the entrance gate. Rahul heard the sound of tires screeching which broke his sync with the nature. One man came out of the car. On the first look, he seemed liked a company professional as he wore black business suit with pure white shirt and black pant, and a tie of crimson color with black shoes polished nicely. Rahul on seeing him wondered what a business professional was doing there and that to such early morning.

The person scanned the entire area for availability of people, but just found him. The look on his face was dreaded with sweat bathing his forehead. This invoked suspicion in Rahul and he thought something was fishy.

And as he completed his thought, he saw the man standing on the verge of the cliff near the railing which covered the edges of cliff. With a blink of eye, a thought knocked his door and Rahul understood what the man was upto.

Rahul was in awe and realized that he can't let anything happen. In the

mean time he saw the person hesitating to climb the railing, as if he was having cold feet. Finding it an opportunity to distract his attention, Rahul loudly spoke, "It needs a lot of courage to do that." The man stopped his action for a moment. So Rahul further continued, "If you apply about half of that courage to face the reason behind this, I am damn sure you won't need to think about doing this ever."

He stopped for a moment to think a bit, but completely ignored Rahul and continued to climb the railing as the height of the railing was higher than a normal person's height. He was halfway there when Rahul spoke again, "What if you didn't die?, what if you become handicapped?, Your life will become even worse."

This time it worked and he turned around and spoke annoyingly, "Its more than 150 feet, I am sure I will die and its none of your business. Get lost and don't disturb me." Saying this he continued to climb further, but Rahul was determined to stop him by hook or crook, so spoke again, "That is not for you to decide, nothing happens in this world without the permission of the deity. If you are not meant to die, you won't die."

Listening this he turned around, jumped back from the railing and looked at Rahul with rage. He was mad at him. Rahul on the other side

was smiling inside thinking that task completed.

Rahul spoke instantly, "What's your problem, why do you want to end your precious life?, What went so wrong that you are taking such an extreme step?" He lurched away from him and spoke hesitantly, "That I don't need to tell you" and turned his back towards Rahul. He spoke this in such a way as if he was pleading someone to listen to him and talk to him. Rahul went towards him and turned him. He saw his eyes were filled with tears.

Rahul told himself, he need to help that person. He told him, "Okay, you want to die, die, I won't stop you, but first I want to know the reason behind such an extreme step. Tell me everything honestly. If in the end I find you are right, I will go away and let you die." He responded negatively. Rahul tried again and with some more efforts he convinced him to tell him everything. And they sat there for six hours at a stretch, talking.

Rahul peacefully listened his life story and made him understand the importance of his life and how beautiful his life was and in the end convinced him not to try anything like this again. The person was facing some life issues with divorce with his wife and some problems with his business due to a major loss in a deal.

According to him that was the reason for his extreme action, but Rahul found that it was not the

case. In this difficult situation he had no one to turn to which made him so alone and depressed that he decided to take such a step. He just needed someone to talk to and listen him.

Rahul maturely made him understand everything, showed a path to try and find the solution to his problems and gave him his number to talk in case he again have such thoughts. The person promised him that he wouldn't do it again. That smile on the person's face while bidding Rahul goodbye told a lot of things and Rahul felt very much contented to help him. And with this he got the purpose of his life. Rahul started a suicide helpline with a purpose to help those who need to be listened and save their precious life. Maybe God has sent him for this.

Self-immolation a.k.a Suicide is a very disturbing and condemned thing this world is facing. People, specially teens and young adults are major victims of this.

Sometimes it's not because of the reason, but the loneliness and depression arising out of it that causes this thing. At that time all which is needed is someone to talk to. It's because sometimes all which is needed is someone to be simply there not to do anything, or to fix anything, but just to let them feel that whatever be the case someone is there.

Talk to your parents no matter what, they will help you out and

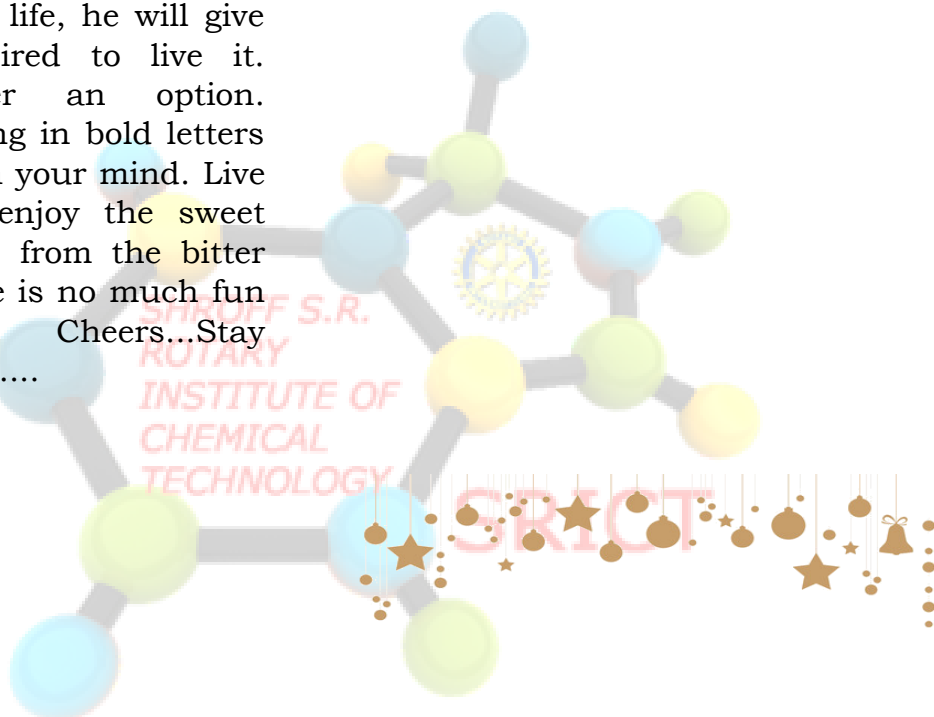


friends too. Just remember the fact that you were not born according to your wish, so it's not in your hand to take that life. Someone has rightly said that 'the life you are living today is someone else dream. So value it not waste it'

You always have a choice. You can either focus on what is tearing you apart or the other way; you can focus on what is holding you together. Life is tough, but if the almighty has given life, he will give the strength required to live it. Suicide is never an option. Remember this thing in bold letters and fit this thing in your mind. Live life as it comes, enjoy the sweet parts, take lessons from the bitter ones, because there is no much fun than living it!! Cheers...Stay Happy...Stay Young....



**January 12, 1991** - Congress authorized President George Bush to use military force against Iraq following its invasion of Kuwait.



**Birthday** - French industrialist Andre Michelin (1853-1931) was born in Paris. He started the Michelin Tire Company in 1888, pioneering the use of pneumatic tires on autos.

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## LITERARY ARTICLES: साहित्यिकप्रबन्ध

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SR.NO.	TITLE	CATEGORY
1.	OF TRUTH	ESSAY REVIEW
2.	TRIBUTE TO JAGJIT SINGH	COLLECTION OF POEMS
3.	NOTHING WILL DIE	POETRY
4.	BIRBAL IDENTIFY THIEFS	SHORT STORY
5.	TALE OF TWO BIRDS	SHORT STORY
6.	RESHAPING DESTINY	SHORT STORY
7.	WAIT FOR A DAY	SHORT STORY
8.	TWO CATS	SHORT STORY
9.	YOU CAN WIN BY SHIV KHERA	BOOK REVIEW
10.	THE MAHATMA & THE MONKEYS	BOOK REVIEW
11.	THE MAGNIFICENT SEVEN	MOVIE REVIEW

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## OF TRUTH

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[VINITHA VAKKAYIL, ASSISTANT PROFESSOR, MSH]

Pilate, the Roman Governor of Judea, before whom Jesus Christ was tried and sentenced to death, was not interested in knowing the meaning of truth. He puts the question –What is truth? –to Christ and did not wait for an answer. It appears that he had a skeptical frame of mind.



LORD FRANCIS BACON (1561-1626)

There are certain people who frequently change their opinions; they consider it a sort of intellectual slavery to have fixed beliefs. As professor Selby comments, “that men prefer the freedom of skepticism, to the monotony of a fixed belief and that they deliberately reject the truth in favor of opinions, which satisfy their

vanity, their caprices or their imagination. “In ancient times, there were certain Philosophers who entertained this view, but they do not exist now, still there are some discursive minds who do not like truth. People tell a lie because of several reasons.

1) In practical life, a lot of time and labor is required to find out truth and when it is discovered, it is very difficult to follow.

2) Truth exercises control and imposes restrictions on free will, both in thought and action. Once it is found out, it becomes obligatory to follow, which is very tiresome and inconvenient.

3) Some people are perverted by nature. They have a natural though corrupt love of the lie itself”

4) People are attracted by lies.

5) Some people derive a sort of pleasure in uttering falsehood for financial gains.

Truth exposes many masques and falsehoods. It is like clear day light in which masques and pageants do not appear to be as beautiful as by the varied candle light. Falsehood gives pleasure while truth reveals the falsehood, their hopes, opinions and assessments.

Some ancient Greek Philosophers condemned poetry as it fills the

mind with falsehood. But poetry is harmless, since it passes through the mind without leaving behind any permanent effects, but the lie that sinks in the mind is harmful. Enquiry of truth, knowledge of truth and the belief of truth are the noble qualities of mankind. If a man follows truth, he can enjoy a commanding position. It is a pleasure to stand upon the shore, and see ships toss upon the sea: a pleasure to stand in the window of a castle and see a battle and the adventures below. But no pleasure is comparable to the standing upon the vantage ground of Truth and sees the wandering mists and tempests in the vale below. This, of course should be done with pity and not with swelling of pride. Certainly, it is heaven upon earth to have a man's mind move in charity, rest in providence and turn upon the poles of truth.

In social and political life, one should follow truth because straight forward conduct is the honor of man's nature. Falsehood is like an alloy in a coin of gold and silver, the mixing may make the metal more flexible and work better, but it certainly diminishes the quality and value. Bacon quotes Montaigne, who said that a liar is brave towards God, but afraid of men. A lie faces God but shrinks from men. Surely the wickedness of falsehood and breach of faith cannot possibly be so

highly expressed, as in that it shall be the last appeal to call the judgment of God upon the generations of men. Bacon concludes the essay, quoting from the Bible that "when Christ cometh for the second time, for the final judgment of mankind, he shall not find faith upon earth".

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#### REFERENCE

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Review of an essay of Lord Francis Bacon of the same name

#### "POEMS"

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#### Tribute to "JAGJIT SINGH"

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[HAMZA SHAIKH, 8<sup>TH</sup> SEMESTER, ME]

#### **Tum Itna Jo Muskuraa Rahe Ho**

Tum Itna Jo Muskura Rahe Ho  
kya Gham Hai Jisko Chhupa Rahe  
Ho

Tum Itna Jo Muskuraa Rahe Ho

Aankhon Mein Nami, Hansi Labon  
Par

Kya Haal Hai Kya Dikha Rahe Ho  
kya gam hai jisko chhupa rahe ho  
tum itna jo Muskura rahe ho

Ban Jayenge Zehar Peete Peete  
Yeh Ashq Jo Peete Ja Rahe Ho

Jin Zakhmon Ko Waqt Bhar Chala  
Hai

Tum Kyon Unhe Chhedhe Ja Rahe  
Ho



kya gam hai jisko chhupa rahe ho  
tum itna jo Muskura rahe ho

Rekhaon Ka Khel Hai Muqaddar  
Rekhaon Se Maat Kha Rahe Ho  
kya gum hai jisko chhupa rahe ho..  
Tum Itna jo...Muskura rahe hoo..  
kya gum hai jisko chupa rahe ho..

### Honton Se Chhoo Lo Tum

Honton se chhoo lo tum  
Mera geet amar kar do  
Ban jaao meet mere  
Meri prit amar kar do  
Honton se chhoo lo tum  
Mera geet amar kar do  
(Na umr ki seema ho  
Na janm ka ho bandhan)  
Jab pyaar kare koi  
To dekhe keval mann  
(Nayi reet chalaakar tum  
Yeh reet amar kar do)  
(Aakaash ka soonapan  
Mere tanha mann mein)  
Paayal chhankaati tum  
Aa jaao jeevan mein  
Saansein dekar apni  
Sangeet amar kar do  
Sangeet amar kar do  
Mera geet amar kar do  
(Jag ne chheena mujhse  
Mujhe jo bhi laga pyaara)  
Sab jeeta kiye mujhse  
Main har dam hi haara  
(Tum haarke dil apna  
Meri jeet amar kar do)  
Honton se chhoo lo tum  
Mera geet amar kar do

### Jhuki Jhuki Si Nazar Bekarar

Jhuki Jhuki see nazar bekaraar hai  
ki naheen  
dabaa dabaa saa sahee dil mein  
pyaar hai ki naheen

tu apne dil ki jawaan dhadkanon ko  
gin ke bataa  
meri tarah teraa dil bekaraar hai ki  
naheen  
dabaa dabaa saa sahee dil mein  
pyaar hai ki naheen  
Jhuki Jhuki see nazar...

wo pal ke jis mein mohabbat jawaan  
hotee hain  
us eik pal kaa tujhe intezaar hai ke  
naheen

dabaa dabaa saa sahee dil mein  
pyaar hai ki naheen  
Jhuki Jhuki see nazar...

teri umeed pe jp thukaraa rahaa  
hoon duniya ko  
tujhe bhee apne pe ye aitabaar hain  
ki naheen.  
dabaa dabaa saa sahee dil mein  
pyaar hai ki naheen  
Jhuki Jhuki see nazar...

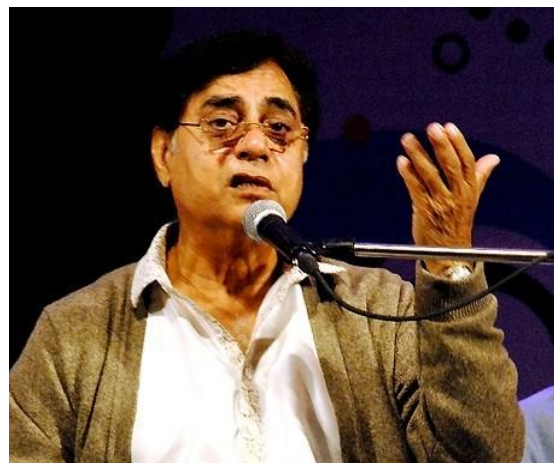
### Chitthi Na Koi Sandesh

च ी ना कोई सन्देश  
जाने वो कौन सा देश  
जहाँ तुम चले गए  
इस दिल पे लगा के ठेस  
जाने वो...

एक आह भरी होगी  
हमने ना सुनी होगी  
जाते जाते तुमने  
आवाज़ तो दी होगी  
हर वक़्त यही है गम  
उस वक़्त कहाँ थे हम  
कहाँ तुम चले गए

हर चीज़ पे अशकों से  
लखा है तुम्हारा नाम  
ये रस्ते घर ग लयाँ  
तुम्हें कर ना सके सलाम  
हाय दिल में रह गई बात  
जल्दी से छुड़ा कर हाथ  
कहाँ तुम चले गए

अब यादों के कांटे  
इस दिल में चुभते हैं  
ना दर्द ठहरता है  
ना आंसू रुकते हैं  
तुम्हें ढूँढ रहा है प्यार  
हम कैसे करें इकरार  
के हाँ तुम चले गए



– Jagjit Singh

Jagjit Singh, born Jagmohan Singh Dhiman, was an iconic Indian Ghazal singer, composer and musician. Known as the "Ghazal King", he gained acclaim together with his wife, another renowned Indian ghazal singer Chitra Singh in the 1970s and 1980s

Born: 08 February 1941

Died: 10 October 2011

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NOTHING WILL DIE

[ABHISHEK PATIL, 4<sup>TH</sup> SEMESTER, ME]

When will the stream be weary of  
flowing  
Under my eye?  
When will the wind be weary of  
blowing  
Over the sky?

When will the clouds be weary of  
fleeting?  
When will the heart be weary of  
beating?

And nature die?  
Never, O, never, nothing will die;

The stream flows,  
The wind blows,  
The cloud fleets,  
The heart beats,  
Nothing will die.

Nothing will die;  
All things will change  
Thro' eternity.  
'Tis the world's winter;  
Autumn and summer  
Are gone long ago;  
Earth is dry to the centre,  
But spring, a new comer,  
A spring rich and strange,  
Shall make the winds blow  
Round and round,  
Thro' and thro',  
Here and there,  
Till the air  
And the ground  
Shall be fill'd with life anew.

The world was never made;  
It will change, but it will not fade.  
So let the wind range;  
For even and morn  
Ever will be  
Thro' eternity.  
Nothing was born;  
Nothing will die;  
All things will change.

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## BIRBAL IDENTIFY THIEFS

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[MEET PATEL, 4<sup>TH</sup> SEMESTER, ME]

One fine morning, a minister from  
Emperor Akbar's court had gathered  
in the assembly hall.

He informed the Emperor that all  
his valuables had been stolen by a  
thief the previous night.

Akbar was shocked to hear this  
because the place where that  
minister lived was the safest place  
in the kingdom.

He invited Birbal to solve the  
mystery. Akbar said "It is definitely  
not possible for an outsider to enter  
into the minister's house and steal  
the valuables. This blunder is  
definitely committed only by another  
minister of that court." Saying so, he  
arranged for a donkey to be tied to a  
pillar. He ordered all the courtiers to  
lift the donkey's tail and say "I have  
not stolen."

Birbal added "Only then we can  
judge the culprit." After everyone  
had finished, he asked the courtiers  
to show their palm to him. All the  
courtiers except Alim Khan had a  
black patch of paint on their palm.  
Birbal had actually painted the  
donkey's tail with a black coat of  
paint. In the fright, the guilty  
minister did not touch the donkey's

tail at all. Thus Birbal once again proved his intelligence and was rewarded by the king with 1000 gold coins.

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## TALE OF TWO BIRD

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[ANKIT PATEL, 4<sup>TH</sup> SEMESTER, ME]

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There once lived a bird and her two new-born babies in a forest. They had a nest in a tall, shady tree and there the mother bird took care of her little ones day and night.

One day, there was a big storm. There was thunder, lightning and rain and the wind blew down many trees. The tall tree in which the birds lived also came down. A big, heavy branch hit the nest and killed the bird. Fortunately for the baby birds, the strong wind blew them away to the other side of the forest. One of them came down near a cave where a gang of robbers lived. The other landed outside a rishi's ashram a little distance away.

Days passed and the baby birds became big birds. One day, the king of the country came to the forest to hunt. He saw a deer and rode after it. It ran deep into the forest followed by the king. Soon the king lost his way and didn't know where he was.

He rode on for a long time till he came to the other side of the forest.

Very tired by now, he got off his horse and sat down under a tree that stood near a cave. Suddenly he heard a voice cry out, "Quick! Hurry up! There's someone under the tree. Come and take his jewels and his horse. Hurry or else he'll slip away." The king was amazed. He looked up and saw a big, brown bird on the tree under which he was sitting. He also heard faint noises issuing from the cave. He quickly got on to his horse and rode away as fast as he could.

Soon, he came to a clearing which looked like an ashram. It was the rishi's ashram. The king tied his horse to a tree and sat down in its shade. Suddenly he heard a gentle voice announce, "Welcome to the ashram, Sir. Please go inside and rest. The rishi will be back soon. There's some cold water in the pot. Please make yourself comfortable." The king looked up and saw a big, brown bird in the tree. He was amazed. 'This one looks like the other bird outside the cave,' he said to himself aloud.

"You are right, Sir," answered the bird. "He is my brother but he has made friends with robbers. He now talks as they do. He doesn't talk to me anymore." Just then the rishi entered the ashram.

"Welcome, Sir," he said to the king. "Please come inside and make



yourself at home. You look tired. Rest for a while. Then you can share my food."

The king told the rishi the story of the two birds and how each had behaved so differently though they looked so alike. "The forest is full of surprises," he said.

The holy man smiled and said, "After all, one is known by the company one keeps. That bird has always heard the talk of robbers. He imitates them and talks about robbing people. This one has repeated what he has always heard. He welcomes people to the ashram. Now, come inside and rest. I'll tell you more about this place and these birds."

## RESHAPING DESTINY

[JAY VALA, 4<sup>TH</sup> SEMESTER, CE]

Once there was a woodcutter. He had a small family - his wife and two daughters, Kanu and Manu. He sent his daughters to school. He used to say, "I could not study, but I want my daughters to study and have a good future." The woodcutter's ambition was great but not his luck, for he never had enough money for his family. However hard he tried, he was hardly able to make ends meet. At times, he felt very unhappy but he never gave up hope.

Though he was poor, he had a heart of gold. One day, a sadhu came to his house. The woodcutter gave the sadhu food to eat. The sadhu blessed him and said, "I am pleased with you, but I cannot change your destiny. You will never have any money, and you will die in poverty, no matter how hard you try. If you become rich, you'll have a short life." One day, when the woodcutter was returning from the forest with a load of wood on his head, he found a big wooden box. It was full of gold coins. There was so much money in it that he could live in comfort without working for the rest of his life. He was overjoyed to see the money. The very moment when he was thinking about becoming rich with the wealth in the wooden box, he recalled what the sadhu had told him. All his joy of finding the gold disappeared. He left the box and walked away. Hardly had he walked a few steps ahead than he thought that the box would be of no use to anyone, as it was lying hidden in the forest. If he took it, he could do so much with it, even if he had to die soon afterwards! So he went back, left the wood in the forest, picked up the box and carried it home.

On his way, he met the grocer of his village. The grocer asked, "What is in the box? Did you not bring any wood today?" The woodcutter replied, "The box is full of gold coins. I found it in the forest. As I had to

carry it, I left the wood in the forest." The grocer laughed loudly. What the woodcutter said was just not possible!

The woodcutter was very confused. He did not understand what made the grocer laugh that way. So he left hurriedly.

Now, it so happened that whoever met him on his way, asked him the same question, and they all found his reply funny. None of them believed him.

When he reached home with the box, his wife asked him about it. He told her the whole story and about his plan of using the money for their family. His wife said that they should not use the gold coins for themselves as the money did not belong to them. So they kept the box in the corner of their room. The family never gave in to the attraction of easy money.

The woodcutter did not give up his occupation. He earned his money by cutting wood and selling it in the market as usual. Over the years, his hard work paid off. He became rich and enjoyed all the comforts in life. His daughters had a good education and got good jobs. It was a surprise for all of them that the sadhu's forecast had not come true. The woodcutter lived a long, happy and healthy life. As for the gold coins in the box, he spent the money on those who needed it in the village.

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## WAIT FOR A DAY

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[ABHISHEK PATIL, 3<sup>RD</sup> SEMESTER, ME]

He came into the room to shut the window while we were still in bed, and I saw he looked ill. He was shivering, his face was white, and he walked slowly as though it ached to move.

"What's the matter, Schatz?"

"I've got a headache."

"You better go back to bed."

"No. I'm all right."

"You go to bed. I'll see you when I'm dressed."

But when I came downstairs, he was dressed, sitting by the fire, looking a very sick and miserable boy of nine years. When I put my hand on his forehead, I knew he had fever. "You go up to bed," I said. "You're sick."

"I'm alright," he said.

When the doctor came, he took the boy's temperature.

"What is it?" I asked him.

"One hundred and two."

Downstairs, the doctor left three different medicines in different colored capsules with instructions for giving them. One was to bring down the fever, another purgative, and the third to overcome acidity, he explained. He seemed to know all about the influenza and said there was nothing to worry about if the fever did not go above a hundred

and four degrees. There was a mild epidemic of flu and there was no danger if you avoided pneumonia.

Back in the room, I wrote down the boy's temperature and made a note of the time for giving the various capsules.

"Do you want me to read to you?" All right if you want to," said the boy. His face was very white and there were dark areas under his eyes. He lay still in the bed and seemed very detached from what was going on. I read aloud from Howard Pyle's Book of Pirates; but I could see he was not following what I was reading.

"How do you feel, Schatz?" I asked him.

"Just the same, so far," he said. I sat at the foot of the bed and read to myself while I waited for it to be time to give him another capsule. It would have been natural for him to go to sleep, but when I looked down, he was looking strangely at the foot of the bed.

"Why don't you try to sleep? I'll wake you up for the medicines."

"I'd rather stay awake."

After a while, he said to me, "You don't have to stay in here with me, papa, if it bothers you."

"It doesn't bother me."

"No, I mean you don't have to stay if it's going to bother you."

I thought, perhaps, he was a little light-headed. After giving him the prescribed capsules at eleven o'clock, I went out a while. At the house, they said the boy had refused to let anyone come into the room.

"You can't come in," he said. "You must not get what I have." I went up to him and found him in exactly the position I had left him, white-faced, but with the tops of his cheeks flushed by the fever, still staring at the foot of the bed.

I took his temperature.

"What is it?"

"Something like a hundred," I said. It was one hundred and two and four tenths.

"It was a hundred and two," he said.

"Who said so?"

"The doctor."

"Your temperature is all right."

"It's nothing to worry about."

"I don't worry," he said, "but I can't keep from thinking."

"Don't think," I said.

"Just take it easy."

"I am taking it easy," he said and looked straight ahead. He was evidently holding tight onto himself about something.

"Take this with water."

"Do you think it will do any good?"

"Of course it will."

I sat down and opened the pirate book and commenced to read, but I could see he was not following, so I stopped. "About what time do you

think I'm going to die?" he asked.

"What?"

"About how long will it be before I die?"

"You aren't going to die. What's the matter with you?"

"Oh yes, I am. I heard him say a hundred and two."

"People don't die with a fever of one hundred and two. That's a silly way to talk."

"I know they do. At school in France the boys told me you can't live with forty-four degrees. I've got a hundred and two." He had been waiting to die all day, ever since nine o'clock in the morning.

"You poor Schatz!" I said. "Poor old Schatz You isn't going to die. There are different kinds of thermometers. On one thermometer, thirty-seven is normal. On this kind, ninety-eight is normal."

"Are you sure?"

"Absolutely," I said. "It's like miles and kilometers, you know. Like how many kilometers we make when we do seventy miles in the car."

"Oh," he said. But his gaze at the foot of the bed relaxed slowly. His body relaxed too, finally. It was very slack the next day, and he cried very easily at little things that were of no importance.

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## TWO CATS

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[KRUSHNAPALSINH MAHIDA, 3<sup>RD</sup> SEMESTER, ME]

Once there were two cats. One was white, the other was black. They were friends. One day they went for a walk. The white cat saw a roll near the road.

"Ah," said the white cat. "There's a roti there. How nice!" (*Roti: round, baked at cake made of whole meal bread, chapatti*)

The black cat ran and picked up the roti. She opened her mouth to eat it, for she was hungry.

"Stop!" said the white cat. "I saw the roti first, so I shall eat it."

"But I picked it up and so I shall eat it," said the black cat.

Both wanted to eat the roti. So they said, "Let us go to the monkey who lives on the mango tree. He will tell us what to do."

The two cats went to the monkey. He was sitting on the mango tree. Uncle said the cats, "please come down from the tree. We want to ask you something."

"Why don't you both come up then?" asked the monkey.

"How can we do that, Uncle?" said the cats. We have this roti. If we come up, the roti will fall."

"Oh, very well," said the monkey. He came down and sat on the ground. "Now what's the matter", he asked.



“Uncle,” said the white cat, “this black cat is very greedy. to eat the full roti. But I saw the roti first, so it is mine.

“But I picked up the roti from the road,” said the black Cat. “So it is mine.”

“You tell us who should eat this roti,” said both the cats together.

“Hmm,” said the monkey. “Let me think.” He closed his eyes for a minute. Then he said, “Give me the roti. I shall break it into two pieces. Then you can eat one piece each.”

The black cat gave him the roti. The monkey tore it into two pieces. Then he looked at the pieces in his hands and said, “Oh, one of the pieces is bigger than the other. Let me make it equal to the other piece.”

The monkey took a bite from the bigger piece. He looked at the two pieces again and said,

“Oh, now the other piece is bigger. I shall make both equal.” And he took a bite from the second piece.

The cats got worried. They did not want the monkey to eat up their entire roti. So they said, “Uncle, give us the two pieces now. Never mind if they are not equal.”

“How can I do that?” he said. “That would be cheating. I must give an equal piece to both of you.”

The cats just sat and watched. They saw the monkey take a bite from the two pieces, turn by turn. At last the monkey said, “It’s no use giving you

the two pieces now. They are too small.” And before the cats could stop him, he ate up both the pieces.

The poor cats were very hungry. But their roti was gone. They said, “We will not fight again. If we find some more food, we shall shan’t equally.” And they both went away to look for a mouse to eat.

### **BOOK REVIEW: “YOU CAN WIN” BY SHIV KHERA**

[HAMZA SHAIKH, 8<sup>TH</sup> SEMESTER, ME]

Winners don’t do different things. They do things differently – Shiv Khera

Success doesn’t mean the absence of failures; it means the attainment of ultimate objective. It means winning the war, not every battle. This Book indicates you to live richer, more fulfilling life than you have now.

In one sense, this book is a construction manual. It describes the tools you will need for success, and offers blueprints to help you build a successful and rewarding life.

In second phase, it is a cookbook. It lists the ingredients, the principles, you will need to follow to become successful and give you the recipe

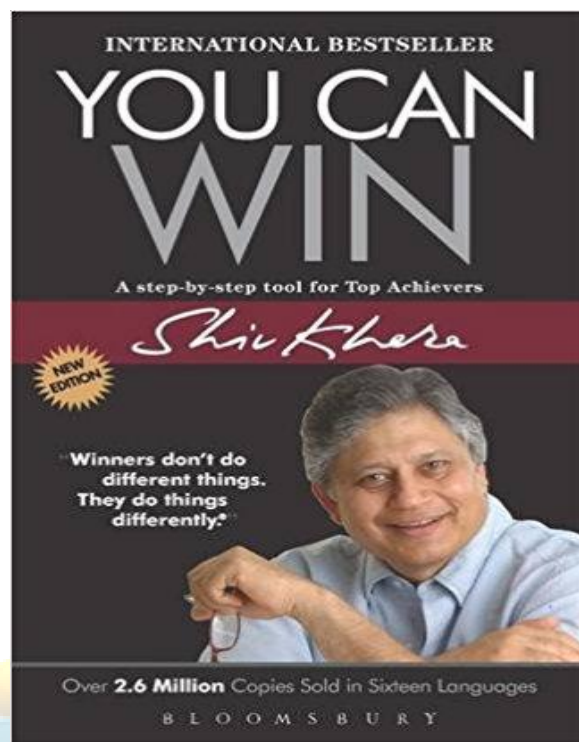
for mixing them in correct proportion.

But above all, this is a guide book: a step by step move to take you from dreaming about success to unlocking your potential for success. This book will help you to establish new goals, develop new sense of purpose, and generate new ideas about yourself and your future. It will enable you, as the title suggest, to guarantee yourself a lifetime of success. But the concept in this book cannot be absorbed by casual browsing or by gulping the whole book down in one reading.

One of the purposes of this book is to help you create an action plan for the rest of your life. Action plan comprises of three things: What you want to achieve? How you expect to achieve it? And when you plan to achieve it? The book is actually divided into three sections: Goals, the

stages to reach to them and time span needed for that. The principle in this book is universal.

They are applicable in any situation, Organization or Country. This Book is divided into 11 chapters, it completes all the dimensions of human welfare, it teaches us how to build a positive approach in achieving something in life.



**Chapter – 1,** explains the importance of Attitude. Attitude is the most important thing; it applies to every sphere of life, including one's personal and professional life. The foundation of success, regardless of your chosen field, is attitude. If attitude is such a critical factor in success, shouldn't you examine your attitude towards life and ask how your attitude will affect your goals? The chapter includes the importance of attitude to organizations, Factors that determine your attitude, how do you recognize people with positive attitude? Benefits of positive attitude, Consequences of negative attitude.

**Chapter – 2,** explains how to build a positive attitude. It gives 8 steps to change attitude that are very

beneficial in one's life. 1. Change focus, look for the positive. 2. Make a habit of doing it now. 3. Develop an attitude of gratitude. 4. Get into a continuous education program. 5. Build a positive self esteem. 6. Stay away from negative influences. 7. Learn to like the things that need to be done. 8. Start your day with something positive. This is all steps, which is beautifully explained by the author in a very appropriate manner.

**Chapter – 3**, deals with the absolute meaning of success. What are winning strategies? Some of the obstacles to success, winning edge, how do we measure success, a huge discussion over that every story is also a story of great failure. Lesson over life is full of choices and compromises, what are the qualities that makes a person successful. The author nicely explains the impact of these qualities in one's life. The presence of such qualities helps on upbringing the hidden potential in eternal soul.

**Chapter – 4**, determines, what is holding us back? This section reveals the causes why we don't achieve excellence, It also briefs to play to win not to lose, Learn from other's people mistake, Associate with people of high moral character, Give more than you get, Don't look for something for nothing, always think long term, Evaluate your

strengths and build on them, Always keep the larger picture in mind, while making a decision, Never compromise your integrity.

**Chapter – 5**, determines Motivation, how does it works, what is the difference between motivation and inspiration, internal and external motivation , demotivating factors, the chapter includes actual meaning of motivation, why do we need to get motivated?, It also gives details over the fact that we all are motivated, either positive or negatively. The author clearly explains the preciseness of motivation, how this motivation differs from inspiration, it also gives four stages from motivation to demotivation: 1. Motivated ineffective. 2. Motivated effective. 3. Demotivated ineffective and 4. Demotivated effective.

**Chapter -6**, contains concept of self esteem, it says self esteem is our self concept, some advantages of high self esteem, causes of low self esteem, what is negative self talk and negative suggestions, building self confidence, lack of discipline, steps to build a positive self esteem, learn to give and receive complements, how to build confidence, it also defines to give positive auto suggestions, in short, this section is all about to judge eternal soul.

**Chapter – 7**, gives detailed overview over the importance of interpersonal skills. It defines the differences between ego and pride, differences between self interest and selfishness, what is envy, jealousy, Also it deals with exact meaning of truth. This phase helps in developing a positive step in resolving complexities in life, how to tackle yourself in adverse situations, what are the outcome reactions, when we hear something negative, it clearly gives the essence of human behavior and try to overcome those failures, that causes hindrance and disturbs the dignity of one's soul.

**Chapter – 8**, deals with the steps of building a positive personality, this section gives entire details over the fact that responsibilities gravitate to the person who can shoulder them.

It concerns with the blaming attitude of people, choose words carefully, think win win, spoken words can't be retrieved, don't criticize and complaint, smile and be kind, put positive interpretation on other people's behavior, Be a good listener, Be enthusiastic, Give honest and sincere appreciation, what is difference between appreciation and flattery, Discuss but don't argue, this are some of the points that has discussed in this chapter, actually author wants to throw lights on this few traits of behavior, in order to bring changes.

**Chapter -9**, draws attention towards subconscious mind and habits, this section reveals what we repeatedly do, how do we form habits?, how do we get conditioned? How do we get programmed? Nature abhors a vacuum, Resistance to change, forming positive habits, auto suggestions and visualization, thus the lesson comprises of what our sub conscious mind says.

**Chapter – 10**, gives the description of Goal setting, it explains what is goal?, why it is important to set goals, what are dreams?, what is balance?, Goals should be balanced, go for a quality not quantity, what are social responsibility, Goals should be consistent with our values, what are meaningless goals. This all are the factors discussed in this chapter, which provides immense knowledge of goal setting and its importance and influences.

**Chapter- 11**, This chapter involves knowledge of values and vision, doing right things for right reason, how do we judge our value system?, how does our value system change? Character is priceless, what money cannot buy. Tragedies in life, fundamentals of commitment, what is ethics?, Ethics and legality, purpose in life, winning vs winners, this all are components of this section, which can be completely explained by author.

## **BOOK REVIEW: “THE MAHATMA & THE MONKEYS”**

[MANSI KASUNDRA, 6<sup>TH</sup> SEMESTER, EST]

We remember Gandhiji only on two days – 2<sup>nd</sup> October and 30<sup>th</sup> January – Gandhiji’s birthday and death anniversary. Still those two days are imprinted in our minds and that’s not a small thing. That’s probably because, automatically and often without thinking we call him Bapu – the father of the Nation, when we talk, when we read a lesson or give a speech, or sing a song about him. But what actually happens is that we feel he was someone very old and great, who lived long ago and said wise things that we never completely understand. We are told that he led our country to her freedom, but that doesn’t mean very much to us when we have not experienced slavery because we never know what it is like not to be free. We have no idea how difficult it had been for all the people of our country to be under the thumb of an oppressive, foreign government and how one man could have fought it – without firing a shot. His idea was simple, but not easy to follow: You don’t have to raise a hand or a weapon to fight something or somebody. That is belief in truth and non-violence. He described it as ‘truth-force’ or ‘soul-force’ to convert the wrong doer. In today’s world people say that you

have to be manipulative and street – smart to be successful, but Gandhiji showed us that finally truth wins.

Gandhiji believed that everyone must do his or her work. Gandhiji’s Tolstoy farm was a kind of laboratory for many of the beliefs and principles that he introduced to the people. During this time, Gandhiji found that the washer man’s bill was very high and added to the expenses of the farm. The washer man was also never punctual. Gandhiji decided to do his own washing. He bought himself a book about washing, studied it thoroughly and even taught his wife how to wash clothes properly. It only added to his already considerable chores at the farm, but the process of learning and doing something new that would make him even more self – reliant always gave him pleasure. Gandhiji said that, “A man is the sum of his actions, of what he has done, of what he can do, nothing else.”

This book with an introduction by Anupam Kher brings together the most interesting incidents that shaped Gandhiji’s life and his most important sayings. From his quest for truth, non-violence, equality and freedom, from the lessons he learned, and from his powerful words, we too can learn to be a little bit like Gandhiji.



“You must be the change you wish to see in the world”

Mahatma Gandhi never said, “What can I do, I’m only one person.” Instead he said, “In a gentle way, you can shake the world.” And he did. Through what he did and what he said Gandhiji inspired millions of Indians and made one of the mightiest empires in the world bow to his dream: freedom for India. That’s what made him an uncommon man and the greatest leader of the millennium. And that’s why, even decades after his death, his work and his words matter in today’s world.

### MOVIE REVIEW:

## THE MAGNIFICENT SEVEN

[TEAM KATHAN]

Director Antoine Fuqua brings his modern vision to a classic story in Metro-Goldwyn-Mayer Pictures' and Columbia Pictures' The Magnificent Seven. With the town of Rose Creek under the deadly control of industrialist Bartholomew Bogue (Peter Sarsgaard), the desperate townspeople, led by Emma Cullen (Haley Bennett), employ protection from seven outlaws, bounty hunters, gamblers and hired guns - Sam Chisolm (Denzel Washington), Josh Farraday (Chris Pratt), Goodnight Robicheaux (Ethan

Hawke), Jack Horne (Vincent D'Onofrio), Billy Rocks (Byung-Hun Lee), Vasquez (Manuel Garcia-Rulfo), and Red Harvest (Martin Sensmeier). As they prepare the town for the violent showdown that they know is coming, these seven mercenaries find themselves fighting for more than money.

Rarely have so many charismatic actors been used in a film that feels quite as soulless as Antoine Fuqua's update of “The Magnificent Seven.” It's one of those projects that should work on paper. The cast is perfectly assembled, and I've actually been a bigger fan than most of Fuqua's recent old-fashioned morality plays like “The Equalizer” and “Southpaw.” However, this effort, the opening night film of the Toronto International Film Festival, too often registers as hollow, an exercise in genre that has echoes of the John Sturges and Akira Kurosawa versions, but little of the charm of the former and none of the depth of the latter. The sheer talent of the cast here sometimes provides enough depth to get audience members to the climactic shoot-out, and there are a few definite MVPs in terms of ensemble, but it's hard to envision this film having anywhere near the cinematic legacy of those that inspired it.

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## OMNISCIENT (OFFBIT FACTS)

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[HAMZA SHAIKH, 8<sup>TH</sup> SEMESTER, ME]

where president rule was imposed.

1. The word “Punjab” has been derived out of two Persian words ‘Panj’ and ‘Aab’. Panj means five and Aab mean water. The original Punjab before the partition of 1947 did comprise of 5 rivers crossing through its lands.
2. This versatile piece of land is also known as Golden Harvest as it amounts to 17% of India’s wheat production, 11% of India’s rice production. Whereas total area of Punjab out of India is just 1.4%, but it produces 12% of the cereals produced in the country.
3. The official language spoken in Punjab is, of course, Punjabi, which my dear friends is the 10th most spoken language worldwide. Punjabi is also the third language of Canada.
4. The State Animal is Blackbuck (KALA HEERAN)
5. What can also help you in your competitive exams is that Punjab is the first state where president rule was imposed.
6. According to the Indian economy, Punjab is rich as well as bankrupt; it is rich because it contributes more in Central revenue, but when it comes to returning the money granted for developing project it simply fails.
7. You may never ever imagine Punjabi without peg-sheg, alcohol, and chicken-khurana, non-veg, but on the contrary, Sikhism prohibits drinking alcohol, so the reality is that a significant number of Punjabi’s do not even touch such things.
8. Punjab is also on top in road connectivity with 100 % village connected to roads across the state.
9. The Punjabi culture and traditions have become dominant in the Indian psyche much of which have been shaped due to the preponderance of Punjabi songs and dance forms in many famous Bollywood movies. Furthermore, many

Punjabi delicacies are much loved by people all over the country.

10. Punjab has been divided into Majha, Doaba and Malwa regions. Majha is known as the heartland of Punjab and consists of the districts of Amritsar, Pathankot, Gurdaspur and Tarn Taran. This is the region between the Ravi, Beas and Sutlej rivers. Doaba is the region between Beas and Sutlej and is a very fertile land. Jalandhar, Hoshiarpur, Kapurthala and Phagwara are present in this region. Malwa is located south of the Sutlej River and forms the bulk of Punjab. Ludhiana, Bathinda, Mohali, Sangrur, Ferozepur, Moga, etc. are present in this region.

11. The Grand Trunk Road runs between the holy city of Amritsar in India and the Pakistani city of Lahore. The road runs through the international border crossing between India and Pakistan at the Pakistani village of Wagah. Attari is the last Indian village located at the border. The Wagah border is located just 32km from Amritsar and 24km from Lahore on the Pakistani side. It is perhaps

one of the most famous border crossings in the world.

12. Punjab experiences very hot summers and equally cold winters. The monsoon season witnesses heavy rainfall which is essential for the agricultural health of the state. The summer season commences from the month of April and continues till June. The temperature can touch as high as 45 degrees. The monsoon season lasts from July to September. Winter season starts from the month of October even though the temperatures touch the minimum limit only during the months of December to February. The temperatures can touch the freezing point in the month of December.

13. The Punjab province of British India was divided along with Bengal during partition of India in 1947. Pakistan was created out of Punjab and Bengal. West Punjab became Pakistan owing to it being a Muslim majority region leading to the largest human migration in history and widespread communal violence. In the year 1966, Punjab was again divided on the basis of language leading to the formation of Haryana

and Himachal Pradesh which were carved out of Punjab.

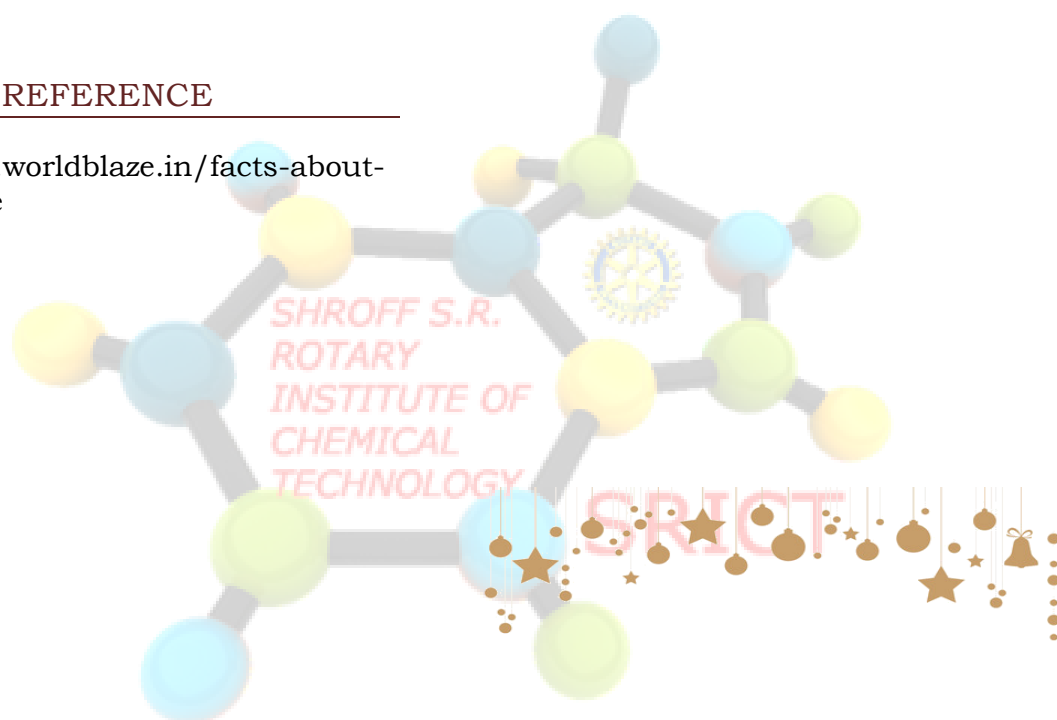
14. Best Time to Visit Punjab:  
October to March

15. The food items that form a part of the traditional food of Punjab are so eye-catching that you can hardly resist your temptation to taste them all.

#### REFERENCE

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<http://www.worldblaze.in/facts-about-punjab-state>



**January 17, 1966** - A Hydrogen bomb accident occurred over Palomares, Spain, as an American B-52 jet collided with its refueling plane. Eight crewmen were killed and the bomber then released its H-bomb into the Atlantic.

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## SAVVY FACTS

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[AASTHA R. PAREKH, 6<sup>TH</sup>  
SEMESTER, EST]

### First Nobel Prizes Awarded

The first Nobel Prizes are awarded in Stockholm, Sweden, in the fields of physics, chemistry, medicine, literature, and peace. The ceremony came on the fifth anniversary of the death of Alfred Nobel, the Swedish Inventor of dynamite and other high explosives. In his will, Nobel directed that the bulk of his vast fortune be placed in a fund in which the interest would be “annually distributed in the form of prizes to those who, during the preceding year, shall have conferred the greatest benefit on mankind.” Although Nobel offered no public reason for his creation of the prizes, it is widely believed that he did so out of moral regret over the increasingly lethal uses of his inventions in war.



In 1863, he invented a way to control the detonation of nitroglycerin, a highly volatile liquid that had been recently discovered but was previously regarded as too dangerous for use. Two years later, Nobel invented the blasting cap, an improved detonator that inaugurated the modern use of high explosives.

After he died, the majority of his estate went toward the creation of prizes to be given annually in the fields of physics, chemistry, medicine, literature, and peace. The portion of his will establishing the Nobel Peace Prize read, “[one award shall be given] to the person who has done the most or best work for fraternity among nations, for the abolition or reduction of standing armies, and for the holding and promotion of peace congress.” Exactly five years after his death, the first Nobel awards were presented. Notable winners have included Marie Curie, Theodore Roosevelt, Albert Einstein, George Bernard Shaw, the Dalai Lama, Nelson Mandela, Winston Churchill, etc.

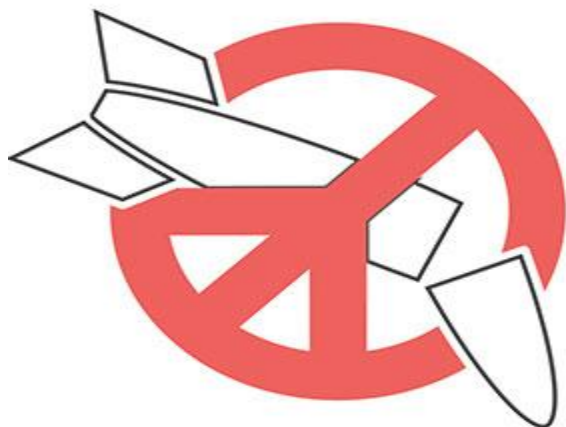
In 2006, each Nobel Prize carried a cash prize of nearly \$1,400,000 and recipients also received a gold medal, as is the tradition.



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## NOBLE NOBELS

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**Name:** International Campaign to Abolish Nuclear Weapons (ICAN)

**Founded:** 2007 in Australia

**Affiliation at the time of award:** Oslo, Norway

**Prize motivation:** "for its work to draw attention to the catastrophic humanitarian consequences of any use of nuclear weapons and for its ground-breaking efforts to achieve a treaty-based prohibition of such weapons"

**Field:** Peace Prize

**Work:**

The International Campaign to Abolish Nuclear Weapons (ICAN) is a coalition of non-governmental organizations in one hundred countries promoting adherence to and implementation of the United Nations nuclear weapon ban treaty. This landmark global agreement was adopted in New York on 7 July 2017.

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ART CORNER: चत्र - लेख

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## KNOW OUR FACULTY: गुरुं - वजानियात्

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**NAME:** Ms. Anita Radheshyam Singh

**DESIGNATION:** Assistant professor (AD-HOC BASIS)

**DEPARTMENT:** Department of Chemical Engineering

**EDUCATIONAL QUALIFICATIONS:**

- Bachelor of Engineering: Chemical engineering
- Master of Engineering: Petro chemical engineering

**EXPERIENCE:**

2 Years 9 Months

**ACADEMIC INTEREST:** Chemical reaction kinetics, Removal & Recovery of heavy metals from wastewater, Membrane materials & process.

**Birthday** - Benjamin Franklin (1706-1790) was born in Boston, Massachusetts. Considered the Elder Statesman of the American Revolution, he displayed multiple talents as a printer, author, publisher, philosopher, scientist, diplomat and philanthropist. He signed both the Declaration of Independence and the new U.S. Constitution.





**NAME:** Mr. Ankursinh Solanki

**DESIGNATION:** Assistant Professor

**DEPARTMENT:** Department of Mechanical Engineering

**EDUCATIONAL QUALIFICATION:**

- Bachelor of Engineering : Mechanical Engineering from C. K. Pithawala college of Engg. & Tech., Surat
- Master of Engineering : Thermal Engineering from SVMIT, Bharuch.

**EXPERIENCE:**

Teaching experience of 3.5 years

**RESEARCH INTEREST:** Heat Transfer, Refrigeration

**Research Paper Publications:**

International: 03

**Short Term Course:**

- Attended One Week STTP on “**Destructive and Non-Destructive Testing of Boilers, Pressure Vessel and Chemical Equipments at F.E.T.R, Isroli**” in October 2015.
- One week Faculty training at “**GODREJ INDUSTRIES LIMITED, VALIA**” in June 2017.

**January 25, 1961** - President John F. Kennedy conducted the first live televised presidential news conference, five days after taking office.

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## PUZZLE & BRAIN STORMING

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1. You can only use any letter once, what are the largest and smallest numbers that you could write down in words?

No, the answer is not sixty.  
Try again!

2. Spaghetti is famous for the way it all gets tangled up on the plate. Those of you who think they know their alphabet are bound to get all tangled up with this puzzle too, unless you read it and think about it very carefully!

What letter of the alphabet is the one which comes eight letters before the letter which comes five letters after the fourth appearance of the first letter to occur four times in this sentence?

5. If I said that in three days' time it would be a Thursday, I am sure that most of you would have no difficulty telling me that today was a Monday. Try this one then. Yesterday was two days before Monday. What day is it today? Yes, you're right again. It's Sunday. Do you get the idea?

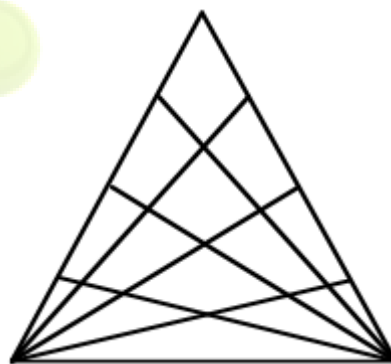
Three days ago, yesterday was the day before Sunday. What day will it be tomorrow?

3. You get this by working backwards through the puzzle: the first letter to occur four times is t: What letter of T....

6. How many triangles and quadrilaterals are there in this diagram?

4. Six wolves catch six lambs in six minutes.

How many wolves will be needed to catch sixty lambs in sixty minutes?







7. This is Hungry Horace's favorite type of Easter Egg.

He went to the shop to buy one but found that the Easter Eggs had been packed up in boxes of three like this:



"Also available separately"

"How much does this one egg cost?" Horace asked the shopkeeper.

"That's easy", he replied "It's just

Then the telephone rang and he had to answer it.

HOW MUCH DOES HORACE'S FAVOURITE EGG COST?

8. The story is told of the enterprising young farmer who crossed a sheep with a frog. Before long he had a sign outside the farm: "Woolly Jumpers for Sale". I digress. Let's have some order round here!

Write out the numbers from 1 to 20 in words:

One, two, three, four, five, six, seven, eight, nine, ten, eleven, twelve, thirteen, fourteen, fifteen, sixteen, seventeen, eighteen, nineteen, twenty.

Now put them in ALPHABETICAL order. Which number stays where it is?

9. Party Time!  
Several people of different ages brought things for the party: Charlie, who's 12, brought the POTATO CRISPS. Wayne brought the FIZZY LEMONADE (he's 13). Helen (11) brought the PAPER PLATES, and her brother Peter (9) brought the PAPER CUPS. Sheila is the same age as Charlie: she brought the PARTY POPPERS. Young Horace brought the PEANUTS: how old is he? Have a great party!

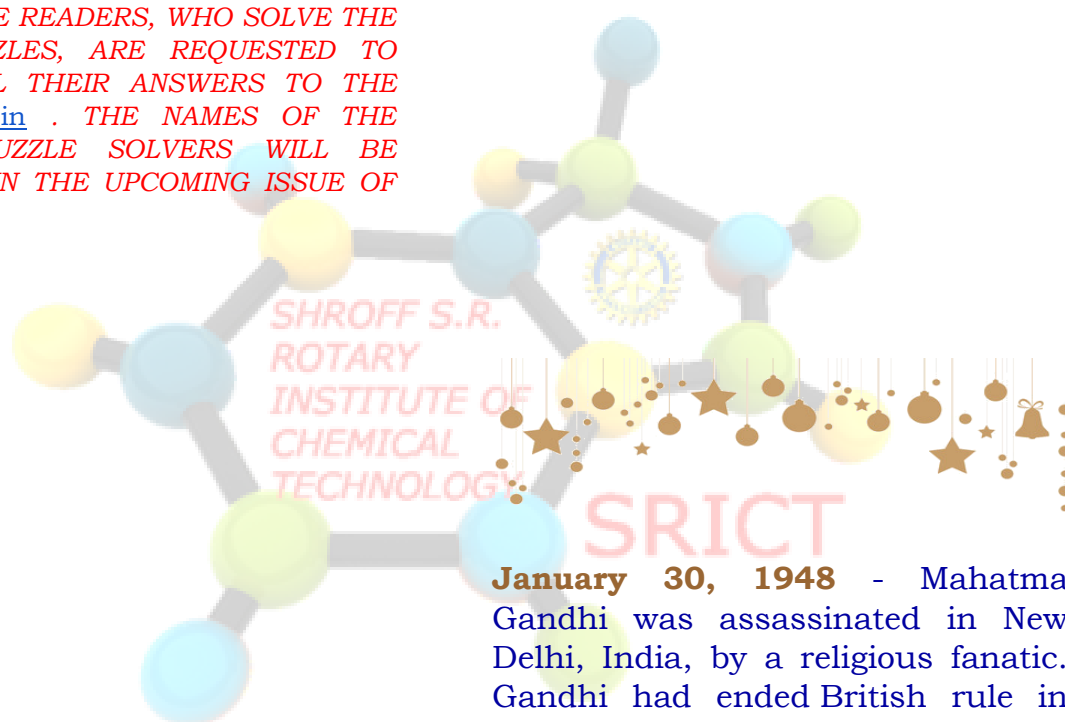
10. There are three people (Alex, Brook and Cody), one of whom is a knight, one a knave, and one a spy.

The knight always tells the truth, the knave always lies, and the spy can either lie or tell the truth.

Alex says: "Cody is a knave."  
Brook says: "Alex is a knight."  
Cody says: "I am the spy."

Who is the knight, who the  
knave, and who the spy?

//// ALL THE READERS, WHO SOLVE THE  
ABOVE PUZZLES, ARE REQUESTED TO  
KINDLY MAIL THEIR ANSWERS TO THE  
[kathan@sriect.in](mailto:kathan@sriect.in) . THE NAMES OF THE  
FIRST 3 PUZZLE SOLVERS WILL BE  
PUBLISHED IN THE UPCOMING ISSUE OF  
KATHAN////



**January 30, 1948** - Mahatma Gandhi was assassinated in New Delhi, India, by a religious fanatic. Gandhi had ended British rule in India through nonviolent resistance. "Non-violence is not a garment to be put on and off at will. Its seat is in the heart, and it must be an inseparable part of our very being," he had stated in 1926.

## 😊 JOKES 😊

A guest calls the waiter and complains, "How come there are no chairs at our table?!"  
-  
The waiter shrugs, "I'm sorry but you only booked one table..."



A girl asks a boy: "Peter, how much do you love me?"

The boy looks her in the eyes, "Look up at the stars, that's how much I love you."

The girl is confused, "But it's morning, there are no stars?"

Boy nods, "Exactly!"



Mother: "How was school today, Patrick?"

Patrick: "It was really great mum! Today we made explosives!"

Mother: "Ooh, they do very fancy stuff with you these days. And what will you do at school tomorrow?"

Patrick: "What school?"



Sleep with an open window tonight!

1400 mosquitoes like that. 420 mosquitoes commented on it. 210 mosquitoes shared this.

One mosquito invited for the event. 2800 mosquitoes will be attending the event.



A wife goes to consult a psychiatrist about her husband: "My husband is acting so weird. He drinks his morning coffee and then he goes and eats the mug! He only leaves the handle!"

Psychiatrist: "Yes, that is weird. The handle is the best part."



Do you know why women aren't allowed in space?

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To avoid scenarios like: "Houston, we have a problem!"

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"What is the problem?"

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"Yeah, great, pretend like you don't know what I'm talking about!"



Little Johnny asks his father:  
"Where does the wind come from?"  
-"I don't know."  
- "Why do dog bark?"  
-"I don't know."  
-"Why is the earth round?"  
-"I don't know."  
-"Does it disturb you that I ask so much?"  
"No son. Please ask. Otherwise you will never learn anything."



Two guys are out hunting in the woods when one of them collapses. He doesn't appear to be breathing, his eyes are glazed over. The other man pulls out his phone with trembling fingers and calls 911. He gasps, "My friend is dead! What can I do?"

The operator says "Please stay calm. I will help you. First of all, let's make sure he's dead."

There's a silence, then a gun shot. The guy gets back on the phone and says "OK, now what?"



I'm certain there are female hormones in beer. When I drink too much, I talk nonsense and I cannot control my car.



Harry prays to God: Dear Lord, please make me win the lottery.

The next day Harry begs the Lord again: Please make it so I win the lottery, Lord!

The next day, Harry again prays: Please, please, dear Lord, make me win the lottery!

Suddenly he hears a voice from above: Harry, would you kindly go and buy a lottery ticket.



A wife complains to her husband: "Just look at that couple down the road, how lovely they are. He keeps holding her hand, holding the door for her, why can't you do the same?"

The husband: "Are you mad? I barely know that woman!"



#### Reference

<http://www.shortfunny.com>

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## NEWS-NATIONAL AND INTERNATIONAL

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[SAUMYA PANPALIA, 4<sup>TH</sup> SEMESTER  
ME]

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### “NATIONAL NEWS”

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1. Manushi Chhillar won Miss World title 2017.



She was previously crowned Femina Miss India 2017. She is sixth Indian woman to win the title of Miss World.

2. New era amphibian plane launched by hon.PM Narendra Modi for the first time in Indian history.



It is the first time that an amphibian plane has been introduced in our country. The plane was made in Japan by a company named Setouchi Kodiak. It was routed from Sabarmati Park, Ahmedabad to Dharoi dam.

3. INS KALVARI 1 of the 6 scorpene class submarine to be commissioned by PM Narendra Modi on 14 December.



In 2005 the Indian Navy ordered 6 Scorpene class submarines which are going to be built at Mazagon Dock, Mumbai. 2 submarines are to be launched in 2021.



4. Rohit Sharma to become 1<sup>st</sup> Indian batsman to score 3 times double century in ODI against Sri Lanka.



No one has achieved 3 times double century by Indian batsman.

First against Australia with 209 off 158 balls. Second against Sri Lanka with 264 off 173 balls (highest double century score in ODI). Third against Sri Lanka with 208 off 153 balls

5. BJP won state elections in Gujarat and Himachal Pradesh.



Out of 182 seats in Gujarat BJP win 99 seats, Congress win 77 seats.

Out of 68 seats in Himachal BJP win 44 seats, Congress win 21 seats.

## “INTERNATIONAL NEWS”

1. Trump's decision to recognize Jerusalem as Israel's capital broke with international consensus.



Triggering protests across the Muslim world and drawing strong condemnation. Key US allies including Britain, France, Italy, Japan and Ukraine were among the 14 countries in the 15-member council that voted in favor of rejecting the move.

2. America took step back for climate change agreement.



3. Saudi Arabia lift movie ban after 35 years and from driving license given to women.



The royal order will be implemented by 24 June 2018. The country's US ambassador, Prince Khaled bin Salman, confirmed that women would not have to get male permission to take driving lessons, and would be able to drive anywhere they liked.

4. Disney buys 21<sup>st</sup> century fox stocks worth of \$52.4 Billion.



The sale of 21st Century Fox to Disney is the opposite of everything we expect from Rupert Murdoch. Over 60 years as head of his companies, he has built a reputation as an acquirer, not a divestiture. He's taken bold risks to extend his empire against latest channels like Netflix etc.

5. Manchester city straight win 15 times in a row never happened in 129 years of history of England football.



**January 11, 1964** - The U.S. Surgeon General declared cigarettes may be hazardous to health, the first such official government report.

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## READERS WRITE

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Any reader can give his/her opinion, suggestions and also put forward any technical articles related to our streams and current areas of industrial development in technical section; any literary articles, or general articles appealing to all readers of Kathan.

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4th Oct 2017







Block No 402,  
At & Po: Vataria, Ankleshwar-Valia Road,  
Dist: Bharuch –393002, Gujarat.  
Telephone: 02643-290825  
Email: [kathan@srict.in](mailto:kathan@srict.in)  
Website: [www.srict.in](http://www.srict.in)