



KATHAN

20TH EDITION



APRIL
Twenty seventeen

KATHAN – EDITORIAL BOARD

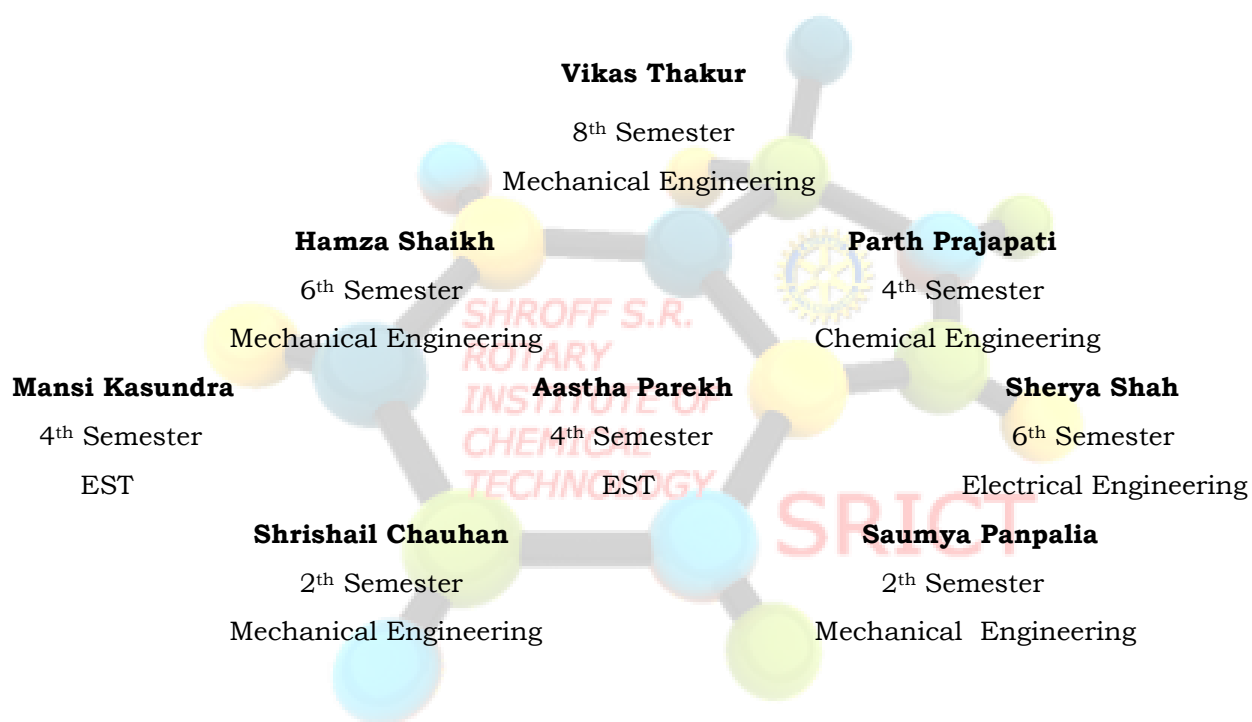
SHRIKANT J. WAGH

PRABIR CHANDRA PADHY

AMIT GALPHADE

ANJALI NAIR

Especially thankful for the enthusiastic and dedicated efforts of:-



ANKLESHWAR ROTARY EDUCATION SOCIETY

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Vice Chairman:	Rtn. Ashok A. Panjwani
Secretary:	Rtn. Angiras H. Shukla
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EDITORIAL BOARD MESSAGE

It is with pleasure that we put 20th edition of Kathan in your hands. Before talking about anything else, let's go through one small parable.

There is one famous story which was told by Gautam Buddha. There was a man who was crossing a forest. As he was crossing, he saw one tiger. Hence he started to chase. Tiger started to run after him. While running, man saw there was sudden drop and there hanged one vine. Man grasped vine and jumped. He was hanging in the air. While hanging, he saw down. There another tiger was standing, looking up at him and waiting for him to drop. Out of nowhere two mice, one black and one white, came there and started to gnaw away the vine. The man saw luscious strawberry and grasping the vine, plucked the strawberry and started to eat and enjoy it.

The first look at this story gives us absurd feeling. Man who is hanging for his life is eating and enjoying strawberry. It may seem ridiculous. But there is deep meaning in the story. Compare the vine with life, mice, black and white, with night and day, tigers with the problems of our life and finally strawberry as small pleasures in our life. Now read the story again. How simple and yet powerful message!

So basically, there are always going to be problems, no matter where we run. Time is going to keep on passing. But it is up to us to decide whether to keep on hanging hopelessly or to enjoy strawberry while hanging.

Coming back to Kathan, this issue gives glimpses of the activities and events organized at SRICT. The quarter was full of various activities by faculties and students. This included both academic and extra-curricular activities. They really reflect how SRICT has grown leaps and bounds in such short period of time. The boundaries are now consistently being crossed and new boundaries are being set.

This issue is also special in a way as it marks the beginning of some new sections. Do explore those sections. We hope you like them.

As always, we value your feedback. We really hope to hear from you. And last but not least, we would like to extend our thanks to you for your constant support which provides us strength to keep moving forward.

Our special thanks goes to **Mr. M V Rao** for sharing his views with us.

Happy Reading and explore the unknown info....!!!

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A MESSAGE FROM AN INDUSTRY PERSON:

संदेश



Name: Mr M V Rao

Name of Organization: Piramal Glass Ltd., Kosamba

Role : Head of operations (Furnace & Batch house)

Designation: Asst. General Manager

Product Range: High End glass packaging (Perfumery and Nail Polish)

Education: Graduate in Ceramics (specialization -Glass & Refractories)
Masters in Operations

Industrial Experience: 26 yrs

Industries Served: Ceramic Granites, Sanitary ware, Glass Tubing, TV Glass, Furnace design, Fiber & Insulation Glass and packaging glass.

Message from M V Rao Head- Glass, Piramal Glass Ltd. Kosamba.

I render my sincere thanks to SRICT management for providing exceptional valued specialized branch (Glass & ceramics) option to main stream students. Present scenario is that ceramic and glass industries are in scarcity on availability of technocrats to meet industry growth rate. This Opportunity of specialization ceramic branch will fulfil industry's need.

I personally congratulate ceramic branch's 1st outgoing batch students for their bright professional career. I also would like to congratulate all of faculty team of SRICT and Head of Ceramics for their priceless efforts to groom them as future techno leaders.

It's really a good thought to motivate students by publishing a message from industry person via trimonthly e-newsletter publication. I am very much thankful to SRICT management to provide such opportunity to share my thoughts and views with you all.

SRICT has the unique locational advantage of being situated at center of India's largest ceramic and glass industry hub where students can utilize industry exposure to translate theory into practical knowledge instantly by following On Job training techniques. Being a Center of excellence for specialized branch in Engineering, opportunities are plenty surrounded you on the name of Piramal, Guardian, Saint-Gobain, Kohler Borosil, Hienz-Haldyn & Sun Rise...etc, just ensure for best possible utilization & to transform into practical knowledge which is a very unique & peculiar opportunity for SRICT students. The faculty and students have to utilize these opportunities in the form of projects, internships, industry tours could be taken up with ease as compared to other similar institutions.

SRICT being close proximity to our industry I always welcome any support at any point of time to all of you to understand in depth about ceramic/glass to translate theory into real filed examples. Industries like ours have implemented advanced technologies and automations can serve as practical exposure places. We invite SRICT students for the same. In fact we (Piramal) started inducting students from your institute against vacancies via conducting campus interviews.

At last but not least that I have to say few words to faculty team about their commitment towards excellence, it's imperative to bench mark themselves with similar institutions to keep them at par desired excellence level. Knowing the management and the faculty of SRICT I am quite confident that all practices are already there in every member of the SRICT family and this Institute will prove a great place of learning and excellence in the coming times.

This issue of the e newsletter is coming during final SEM End time .i.e. end of April, my best wishes & best of luck to one and all those are going to attend their Final Sem Exams in the month of April 2017.

SRICT NEWS...

श्रुति एवं प्रवृत्ति।

“GREENNOVATION-2017”

[JALPA THAKKAR-GREENNOVATION MEMBER, SRICT]

Preamble

Innovation normally involves creativity, on the contrary is not identical to it. Innovation involves performing on the creative thoughts to make some specific and physical variation in the sphere wherein the innovation happens. For innovation to crop up somewhat extra than the generation of a creative idea/thought or within reach is required, the insight must be placed into action to make a real difference, resulting for example in new or changed business processes within the organization, or changes in the merchandise and services provided. From this point of vision, a competition GREENNOVATION based on innovative projects by technocratic hands (engineering/diploma) was thought of by Bharuch-Ankleshwar Innovation Sankul under the banner of Gujarat Innovation Council for engineering/diploma institutes based in and around Bharuch District during the academic session 2016-17

Host Institute

The Co-chariman (academics, Bharuch Ankleshwar Innovation Council) Mr. Jivraj Patel, Dr. Ragesh kapadia, Director (Bharuch Ankleshwar Innovation Council) and a team of Principals' Prof Shrikant J. Wagh (SRICT), Mr. Dalchawal (AYDIT), Mr. Shukla (GEC) and Mr. Ballar (DIT) met on 23rd July at SRICT and jointly incubated this idea to practice. Prof Shrikant J. Wagh (Principal, SRICT) was unanimously selected as Chairman for the event and the Chairman declared the event to be hosted by Shroff S R Rotary Institute of Chemical Technology.

About Greennovation competition:

In subsequent meetings regarding the event, the name for the competition, areas of focus, scope to be covered, deadlines of semifinals, rules and regulations, judges, prizes and the date of the event were finalized. The details of the Grand Finale of GREENNOVATION are as below:

Name of the competition	GREENNOVATION 2017
Date of the competition	23 rd February, 2017
Venue	Shroff S R Rotary Institute of Chemical Technology
Institutes taking part	SRICT, SVMIT, GEC, AYDIT, DIT
Sponsor	Bharuch Enviro Infrastructure Limited, National Productivity Council, SVMIT
Title of Projects	Renewable energy, IT for Solid waste Management ,Portable Air scrubbing system Use of Waste Rubber Tyres in construction, Design of Driver circuit for LED
Total Participants	69
Name of the judges	Dr K N Mistry ,Mr S M Karhale ,Mr Sunil Motiramani, Mr Nitin Shah, Mr Nitin Tailor, Mr S I Thakar, Mr Himanshu Gondaliya, Dr Sandeep Rai, Mr Jigar Shah, Mr Soheli Meghji
Prizes awarded	1 st : Rs. 5000 and certificate 2 nd : Rs. 2500 and certificate All the participants were awarded with certificate of Participation
Chief Guests	Mr Ashok Panjwani (for Inauguration) and Mr B D Dalwadi (for Valedictory)

Overall it was a grand success and a great initiative towards blending innovation and academics, an

indirect way towards academics to corporate (Entrepreneurship)



“SHAKSHATKAAR”

[DEEPIKA SHAH - COORDINATOR
SCHOOL VISIT]

Since last four years, we are arranging school visits at our Institute. In continuation of the same during current Academic year 2016-17, the following schools had visited our college.

Sr. No.	Name of School	Date	No. of the students
1.	Pandukeshwar School	19/1/2017	23
2.	L.C.Sheth	19/1/2017	20
3.	Rangnavchetan Vidhyalaya	19/1/2017	40
4	J J Vidhyabhavan	10/2/2017	35
5	Dayadara school	13/2/2017	35

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.



“NATIONAL PRODUCTIVITY WEEK”

[ANJALI NAIR, ENVIRONMENTAL SCIENCE AND TECHNOLOGY DEPARTMENT]

Department of Environmental Science & Technology (DEST) Celebrated National Productivity Week (16th-17th Feb 2017) with National Productivity Council on Theme "From Wastes to Profits through Reduce, Recycle and Reuse" at Shroff S R Rotary Institute of Chemical Technology, Vataria. The coordinator of the programme was Prof. Snehal Lokhandwala, Head of the Department, (DEST). Mr. Shirish Paliwal, Director, NPC was the chief guest of the day. The celebration was followed by Essay writing, Painting, Slogan and Poster Presentation. Sixteen, Thirty seven, nine and sixty one students participated in Painting, Essay, Poster and Slogan competition respectively.

After the competition Prof. Shrikant Wagh, Principal welcomed the gathering, Mr. Shirish Paliwal, Director, NPC addressed the gathering and distributed prizes to 1st, 2nd, 3rd winner of the competitions.



“REPUBLIC DAY CELEBRATION”

[MATHEMATICS SCIENCE AND
HUMANITY DEPARTMENT]

68th Republic Day was celebrated at Shroff S.R Rotary Institute of Chemical Technology, Ankleshwar with the theme **Skill India and Beti Bachao, Beti Padoo**. The tricolor was hoisted by the chief guest, Mr. Rajju Bhai Shroff Chairman & Managing Director UPL. Inauguration of the plastic bag pick-up machine PLASTOPICK was done at the noble hands of the Chief Guest. The topper student with SPI 10/10 from Environmental Science & Technology, Ms. Shreya Kundu, was felicitated with a Cash prize & UPL Gold medal.



“FELICITATION OF STUDENTS”

[MATHEMATICS SCIENCE AND HUMANITY DEPARTMENT]

Nourishment and encouragement are the only ways that can make human talents grow. ARES management has always been lavish in doing that to our students at SRICT. In the felicitation programme organised on 1st March, 2017 all the students having SPI 8.5-10.0 in the 5th semester GTU exam were awarded with cash prizes. Abhishek Sharma (CE), Lashkari Krunal Harshadbhai (EST), Dalal Pankti Shashinbhai (EST), Jesal Patel (EST) Madhu Kshitij (CT), and Ravi Arora (CT) were the students with 10/10 SPI. Mrs. Sandra Shroff, Chairperson ARES, awarded the star performers with goldmedals sponsored by United Phosphorus Limited. The program was co-ordinated by Dr. Purvi Naik, HoD-Mathematics, Science & Humanities.



MOTIVATIONAL PRIZE DISTRIBUTION & FELICITATION

[MATHEMATICS SCIENCE AND
HUMANITY DEPARTMENT]

SRICT has always appreciated improvement whether it is little or lot. That is how the management of Ankleshwar Rotary Education Society is different and plan to leave a long lasting influence on our students. On 7th April, 2017, was organized the motivational prize distribution and Felicitation of students of semesters 2, 4, 6 and 8. Total 153 students who made remarkable performance in their University Exams were awarded cash prizes ranging from Rupees 500 to 20,000. The event was graced with the presence of Vice Chairman ARES, Rtn. Ashok Panjwani, Secretary Rtn. Angiras Shukla, Treasurer Rtn. Kishore Surti, Trustee Dr. P.N. Parameswaran, Chief Executive Officer BEIL, Mr. Bhupendra Dalwadi, and Principal Professor Shrikant J. Wagh. The program was co-ordinated by Dr. Purvi Naik, Head of the Department-Mathematics, Science & Humanities.

WINSTINCT 2017

[JATIN PARMAR, SPORTS
COORDINATOR, MECHANICAL
DEPARTMENT]

On 10th and 11th Feb 2017 SRICT held its annual sports days entitled as WINSTINCT 2017.

The event was marked by a string of spectacular performances presented by around 700 students who were brimming with enthusiasm and sportsmanship.

The opening ceremony with Mashal (torch) was graced by Principal Mr. Shrikant J. Wagh in the presence of other college officials and students.

The Principal officially declared the sports-meet open and inflamed Torch symbolizing the vibrant hopes of the sporting students.



It was well coordinated by Mr. Jatin Parmar supported by other faculty sports coordinators.

Various games, total 19 in numbers, were played which included Sprint, Relay, Shot Put Ball, Shot Put Disc, Long Jump, Cricket, Kabaddi, Chess, Carom,

Pool/Snooker/Billiards, Table Tennis, Lagori (Seven Stones), Kho-kho, Badminton, Volley Ball, Basket Ball, Box Cricket, Tug of War. The students participated enthusiastically in all of them. Badminton tournament was also arranged on 12th February, 2017 at UPL Sports Complex.



REVAFEST 2017

[MATHEMATICS SCIENCE AND HUMANITY DEPARTMENT]

5th Annual Day celebrations of SRICT was organized at AIA Hall on 31st March, 2017. The fest, Rendezvous with Entertainment and Variety of Arts was inaugurated at the Exhibition counter by the noble hands of our chief guest Mr. Ravi Kapoor, Managing Director, Heubach India limited.

After the lamp lighting by the Chief guests, Chairman Rtn. Ashok Panjwani, Secretary, Rtn. Angiras Shukla, Treasurer Rtn. Kishore Surti, and the welcome address by Principal, Professor Shrikant Wagh, cultural programs started with the Triveni Sangam dance. This was a unique number, where three different talents like singing, dancing and drawing merged into a fantastic experience on the stage. The message of the ARES Chairperson, Mrs. Sandra Shroff

was read out by Dr. Purvi Naik. A beautiful blend of music, dance and theatre events followed and the audience were enthralled as the talents of SRICT students gradually unfolded. The variety programme entertained the audience tremendously.

The outstanding students in academics, sports and other co-curricular activities were felicitated by Mr. Ravi Kapoor. In his address to the students, he extended support to any entrepreneurship initiatives of SRICT students. In the colorful events that followed,

students brought to limelight their creative and artistic talents. The coordinator of the event, Dr. Purvi Naik (HOD), MSH Department.



ONE DAY WORKSHOP ON “TESTING OF DIELECTRIC MATERIALS FOR HIGH VOLTAGE EQUIPMENTS

[ELECTRICAL DEPARTMENT]

The Department of Electrical Engineering of Shroff S R Rotary Institute of Chemical Technology (SRICT), Ankleshwar and The

Institution of Engineers (India) SRICT Students' Chapter (Electrical) had organized a one day workshop on “Testing of Dielectric Materials for High Voltage Equipments” on 18th February 2017. This workshop was organized for Diploma Students of Government Polytechnic College, Rajpipla to give them a hands-on practice about the theory and working of High Voltage Equipments and testing of Dielectric materials.

Mr. Praful Chudasama, Ms. Richa Dubey and Mr. Manish Mishra gave good exposure to students about High Voltage with practical sessions. The event was successfully well organized and coordinated by Department of Electrical Engineering of SRICT and The Institution of Engineers (India) SRICT Students' Chapter (Electrical) with the full support of SRICT management.



PARENTS MEETING - SAMPARK ABHIYAN (FINAL YEAR STUDENTS)

[ELECTRICAL DEPARTMENT]

Parents meeting for fourth year students (Sem VIII) were arranged at SRICT on 4th March, 2017. The percentage of student's attendance, result analysis of CET-1 (Continuous Evaluation Exam) was discussed in the meeting. Mr. Sourav Choubey (Asst. Prof., DEE) interacted with parents about Rules and Regulations of SRICT, Training & Placement activities, NBA activities, Awards and scholarship Facilities, Motivational Awards, Vocational Training and planning of SRICT towards to students. Mr. Praful Chudasama (HOD, DEE) requested parents to motivate their wards for their excellent performance in academic works. Parents showed their concern regarding placement activities.



NATIONAL SAFETY DAY CELEBRATION AT SRICT

[ELECTRICAL DEPARTMENT]

To promote safety culture in Industrial working, National Safety Day (NSD) is being celebrated all over India every year on 4th March and National Safety Week during 4th to 11th March. Department of Electrical Engineering, SRICT and The Institution of Engineers (India) SRICT Students' Chapter (Electrical) jointly organized an event at SRICT campus on 4th March 2017 to celebrate "National Safety Day". The program was addressed by Dharwadkar Sir followed by "Health & Safety Pledge" taken by faculties and students of Department of Electrical Engineering, SRICT.



SRICT LECTURE SERIES ANODE'17- A NODE OF POSITIVE ENERGY

[ELECTRICAL DEPARTMENT]

Shroff S.R Rotary Institute of Chemical Technology (SRICT), Ankleshwar had organized a Lecture Series "Anode'17- A Node of Positive Energy" on 8th, 9th and 11th March 2017. In this lecture series, people from different fields and organizations, including industry and academics, were invited to attend. This was the fourth successful lecture series organized by SRICT, Ankleshwar.

The main purpose of this lecture series is to motivate human resource at SRICT for research work and to create effective learning environment.

In its first day Dr. Vinay Bhandari, Senior Principal Scientist and Professor, CSIR-National Chemical Laboratory, Pune was invited as a guest speaker. He talked about the "Advances in Industrial Wastewater Treatment". In his lecture he discussed about the recent advances in industrial wastewater treatment, the newer developments in the existing established technologies such as coagulation, adsorption, and oxidation. Mr. Anand Tripathi, Head HR-Supply Chain, UPL Ltd., was the second distinguished speaker for Lecture series Anode'17. He delivered a lecture and shared his ideas about "Enhancing Personal

Effectiveness". He explained about the benefits of having positive thinking by giving his own life examples, Concept of VUCA world, 4G, 3G & Roles and Responsibilities of Personal and Professional commitments. He also shared some of his experience related to his field. Dr. Nigam Dave Professor & Director, School of Liberal Studies, PDPU, Gandhinagar, was the third distinguished speaker for Lecture series Anode'17. He delivered a lecture about "Dynamics of Nonverbal Communication". In his lecture he discussed about different aspects of nonverbal communication, such as gestures, dress, and personal space, pointing out that these things must be interpreted in context. Also mentions that some aspects of nonverbal communication are becoming scientific studies, such as kinesics, proxemics and pupillometrics.

The event was successfully well organized and coordinated by Electrical Engineering Department of SRICT with the full support of Ankleshwar Rotary Education Society (ARES) management.



TRAINING PROGRAM BY DEE FACULTY MEMBERS AT HEUBACH

[ELECTRICAL DEPARTMENT]

Two faculty members of Department of Electrical Engineering, Mr. Praful Chudasama & Mrs. Jalpa Thakkar has imparted Training to the Engineers & Electricians of Heubach color pvt ltd., GIDC - Ankleshwar on 16th March, 2017

Mr. Praful Chudasama has delivered first session on "Role of Transformers" & Mrs. Jalpa Thakkar has delivered second session on "Power Distribution system"



ACHIEVEMENT @SRICT

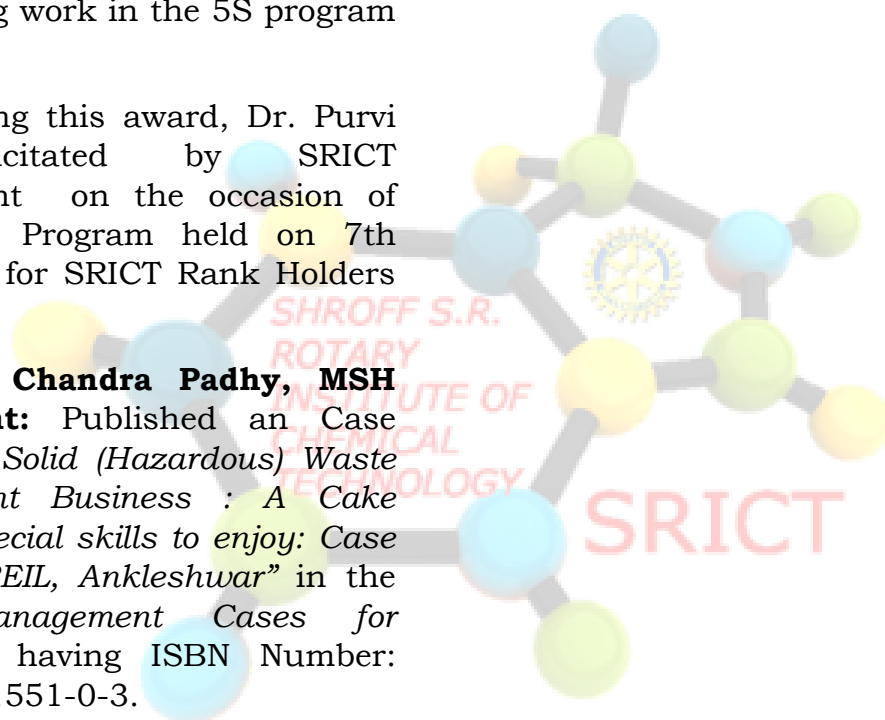
Dr. Purvi J Naik, Associate Professor & HEAD of Mathematics, Science & Humanities Department, SRICT was awarded at 6th Innovation Sankul Day Awards by Gujarat Technological University on 14th February 2017. Dr. Purvi has been recognized under PIA(Pedagogic Innovation Awards) category for her outstanding work in the 5S program at SRICT.

For receiving this award, Dr. Purvi was felicitated by SRICT management on the occasion of Felicitation Program held on 7th April 2017 for SRICT Rank Holders of 2016-17.

Dr Prabir Chandra Padhy, MSH Department: Published an Case Study on “Solid (Hazardous) Waste Management Business : A Cake needing special skills to enjoy: Case Study of BEIL, Ankleshwar” in the Book “Management Cases for Beginners” having ISBN Number: 978-81-931551-0-3.

Dr Prabir Chandra Padhy, MSH Department: Presented an Article on “E-Commerce: Catalyst of Digital India” in the National Seminar on “Digital India: An Initiative towards Transformation & Empowerment” Organised by Kalam Institute of Technology, Berhampur, Odisha on 8th & 9th April 2017.

Mr. Dhananjay R Chauhan, Assistant Professor in Mathematics from the MSH department qualified the National Eligibility Test, (NET) for a second time. As per the notification of 25th March 2017, Mr. Dhananjay, secured an All India Rank of 73. In his first attempt he was at 122nd position



EXPERT LECTURES

[DEPARTMENT OF CHEMICAL
ENGINEERING]

- "Role of process engineer in chemical industry" for the 8th semester CE student on 17th Jan 2017 by Sannoji Velayudam, Senior executive process engineer, Glenmark Generics limited.
- "Packaging manufacturing procurement and Development packaging material" for the 8th semester CE student on 22nd Feb 2017 by Rajkumar kesari, Global Head packaging Development, UPL-3 limited.
- "Work permit system" for the 8th semester CE student on 22nd Feb 2017 by Jayprakash Patel, Senior Manager (EHS), Cadilla pharmaceutical limited.
- "Chemical reaction engineering" for 6th semester CE student on 31st Dec 2016 by Amol Dondge, process engineer, Solvay India limited.
- "Practical Glimpse of Chemical Engineer" for 6th semester CE student on 7th Jan 2017 by Gaurav Singh, executive process engineer, PI industries.
- "Live Demonstration on Fire extinguishers" for 6th semester CE student on 13th Feb 2017 by Sapan janghele, safety officer, GNFC, Bharuch.
- "Pinch technology" for 6th semester CE student on 15th Feb 2017 by Jayprakash Tiwari, Manager Energy cell, UPL-2, Ankleshwar.
- "Career guidance lecture" for 4th semester CE student on 2nd Feb 2017 by Sanjay Mane, Director, Suman Chemical industries.
- "Fundamentals of Fire & Safety" for 4th semester CE student on 13th Feb 2017 by Saumil Shah, Senior safety officer, GNFC Bharuch.
- "Chemical engineering Thermodynamics" for 4th semester CE student on 30th Mar 2017 by Suresh Patel, Instrumentation engineer, Bayer Corp Science limited, Valsad.

[DEPARTMENT OF CHEMICAL TECHNOLOGY]

- “Manage banking at your doorstep through financial inclusion” for the 8th semester CT Students on 4th March 2017 by Ms. Urvi Amin, Assistant Professor.
- “Common Intermediates for Pharma and Dye Industries” for the 8th semester CT Students on 16th March 2017 by Dr. Rajgopal Ambady.

[DEPARTMENT OF ELECTRICAL ENGINEERING]

- “Fundamentals of Power Plant” for the 4th Semester EE students on 24th Jan 2017 by Mr. Bhavin Bhandari, Manager- Production, CLP India Pvt. Ltd., Bharuch
- “Transformer and Motor Maintenance” for the 6th Semester EE students on 7th Jan 2017 by Mr. Deepesh Dubey, Senior Engineer, Bakul Pharma.
- “Maintenance of Power Plant Substation” for the 8th Semester EE students on 30th Jan 2017 by Mr. Harsh Shah, Deputy Manager (Electrical), CLP India, Bharuch.
- “Rural electrification in Distribution System” for the 8th Semester EE students on

18th Jan 2017 Mr. Sandeep Dwevedi, Senior P& D Engineer, L & T, Aligarh.

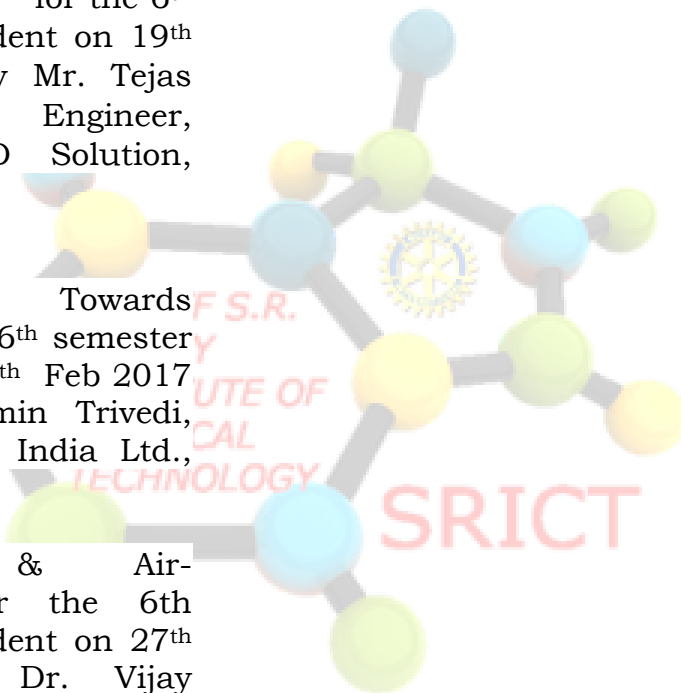
- “Industrial Power System Operation and Control” for the 8th & 6th Semester EE students on 15th Feb 2017 by Mr. K S Shah, Chief Manager-Electrical, GNFC, Bharuch.
- “Interview Skill Development” for the 8th Semester EE students on 7th Feb 2017 by Mr. S B Pandey, HR-Manager, Godrej.
- “Selection, Installation & Commissioning and PM work Of Induction Motor in Industry” for the 6th Semester EE students on 25 Feb 2017 by Mr. Vijay Verugamwala, Assistant Manager (Electrical), Rallis India Ltd., Ankleshwar.

[DEPARTMENT OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY]

- “Hazardous Waste Management” for the 8th semester EST Students on 07th January 2017 by Dr. Atul Vaidya, Principal Scientist, NEERI.
- “Waste Management Techniques” for the 8th semester EST Students on 07th January 2017 by Dr. KD Bhardwaj, Chairman, National Productivity Council, Delhi.

- “Hazardous Waste Management” for the 6th semester EST Students on 07th January 2017 by Dr. Atul Vaidya, Principal Scientist, NEERI.
- “Waste Management Techniques” for the 6th semester EST Students on 07th January 2017 by Dr. KD Bhardwaj, Chairman, National Productivity Council, Delhi.
- “Sustainable Development” for the 8th semester EST Students on 25th January 2017 by Dr. Mritunjai Chaubey, VP, ENV, UPL.
- “CEPI” for the 8th semester EST Students on 30th January 2017 by Mr. Rushi Shah, Sr. Manager, Deccan Chemicals, Ankleshwar.
- “Industrial Safety” for the 6th semester EST Students on 23th February 2017 by Mr. Alok Kumar, CEO, NCTL, Ankleshwar.
- “Opportunities in banking Sector for Engineers” for the 6th semester EST Students on 7th March 2017 by Mrs. Shushma Bhatt.
- “Importance of safety and 5S” for the 2nd semester Chemical Engineering, Environment Science and Technology and Electrical Engineering students on 2nd March, 2017 by Ms. Alka Kale, Safety Manager, GRP Ltd. Ankleshwar.
- "Goal - a key of success" for the 2nd semester Chemical Engineering, Environment Science and Technology and Mechanical Engineering.
- Dr. Ashok Dave, Associate Professor, IITRAM, Ahmedabad, delivered an expert lecture on **“Value Addition and Carbon Capture as an Example”** on 28/03/2017. Mechanical Engineering students of semester 8 attended the lecture.

- “Analysis and Simulation by using Solid Works ” for the 8th semester ME student on 19 January 2017 by Mr. Tejas Thakor, Design Engineer, Tech Time CAD Solution, Ankleshwar
- “Analysis and Simulation by using Solid Works ” for the 6th semester ME student on 19th January 2017 by Mr. Tejas Thakor, Design Engineer, Tech Time CAD Solution, Ankleshwar
- “Initiation-step Towards Industry” for the 6th semester ME student on 25th Feb 2017 by Mr. Mr. Jaimin Trivedi, H.R. (MBA), CLP India Ltd., Bharuch
- “Refrigeration & Air-Conditioning” for the 6th semester ME student on 27th Feb 2017 by Dr. Vijay Matawala, Professor & Head-Mechanical Engg. Dept., Gujarat Power Engineering & Research Institute.
- “An overview of Finite element Method (Mesh and Meshless Method)” for the 6th semester ME student on 4th March 2017 by Mr. Bhargav C Patel, Assistant Professor, MED, C G Patel Institute of Technology
- “Types of Maintenance- A Basic Overview” for the 4th semester ME student on 6th March 2017 by Mr. Ankur Banker, Senior Mechanical Engineer, Maintenance Dept., GNFC, Bharuch



INDUSTRIAL VISITS

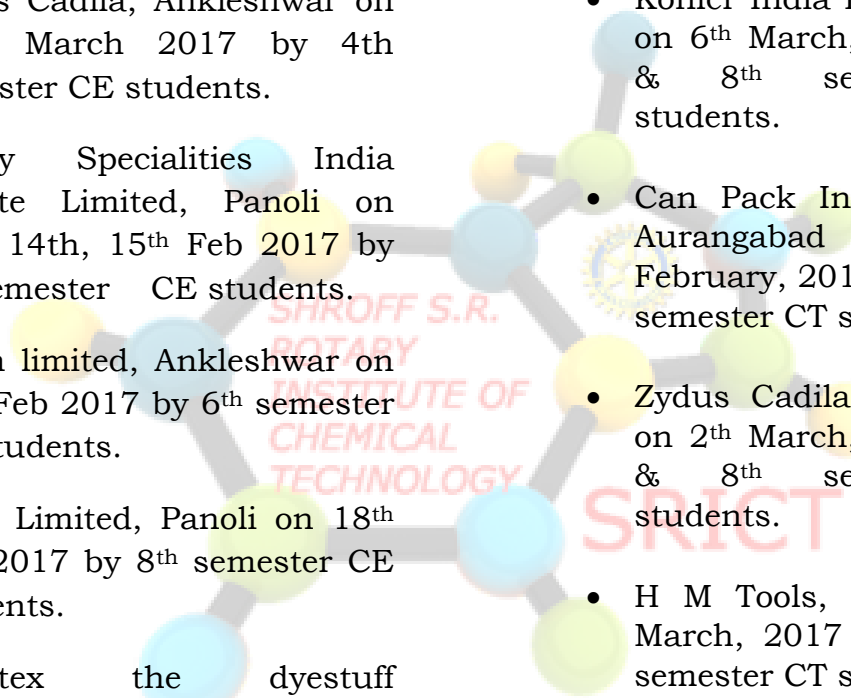
[DEPARTMENT
ENGINEERING]

OF CHEMICAL

[DEPARTMENT
TECHNOLOGY]

OF

CHEMICAL

- 
- Kanoria chemical private Limited, Ankleshwar on 17th & 18th March 2017 by 4th semester CE students.
 - Zydus Cadila, Ankleshwar on 17th March 2017 by 4th semester CE students.
 - Solvay Specialities India Private Limited, Panoli on 13th, 14th, 15th Feb 2017 by 6th semester CE students.
 - Lupin limited, Ankleshwar on 16th Feb 2017 by 6th semester CE students.
 - Hikal Limited, Panoli on 18th Feb 2017 by 8th semester CE students.
 - Colortex the dyestuff company, vilayat, Bharuch on 20th Feb 2017 by 8th semester CE students.
 - Apcotex Industries Ltd., Valia on 4th March, 2017 by 4th semester CT students.
 - Kohler India Ltd., Jhagaria on 6th March, 2017 by 6th & 8th semester CT students.
 - Can Pack India Pvt Ltd., Aurangabad on 28th February, 2017 by 6th & 8th semester CT students.
 - Zydus Cadila, Ankleshwar on 2th March, 2017 by 6th & 8th semester CT students.
 - H M Tools, Surat on 4th March, 2017 by 6th & 8th semester CT students.
 - Pragati Glass, Kosamba on 18th March, 2017 by 6th & 8th semester CT students.

[DEPARTMENT OF ELECTRICAL
ENGINEERING]

- CLP India Private Limited, Bharuch on 22nd Feb 2017 by 6th Sem EE Students.
- Elantas Electrical Insulation, Ankleshwar on 3rd Mar 2017 by 6th Sem EE Students.
- SOLARISM, Bharuch on 21st Feb 2017 by 8th sem EE Students.
- Gujarat Borosil ltd Jhagadia on 31st Jan 2017 by 4th Sem EE Students.
- Solvay, Panoli on 15th Mar 2017 by 4th Sem EE Students.
- GNFC, Bharuch on 16th Mar 2017 by 4th Sem EE Students.

[DEPARTMENT OF ENVIRONMENTAL
SCIENCE & TECHNOLOGY]

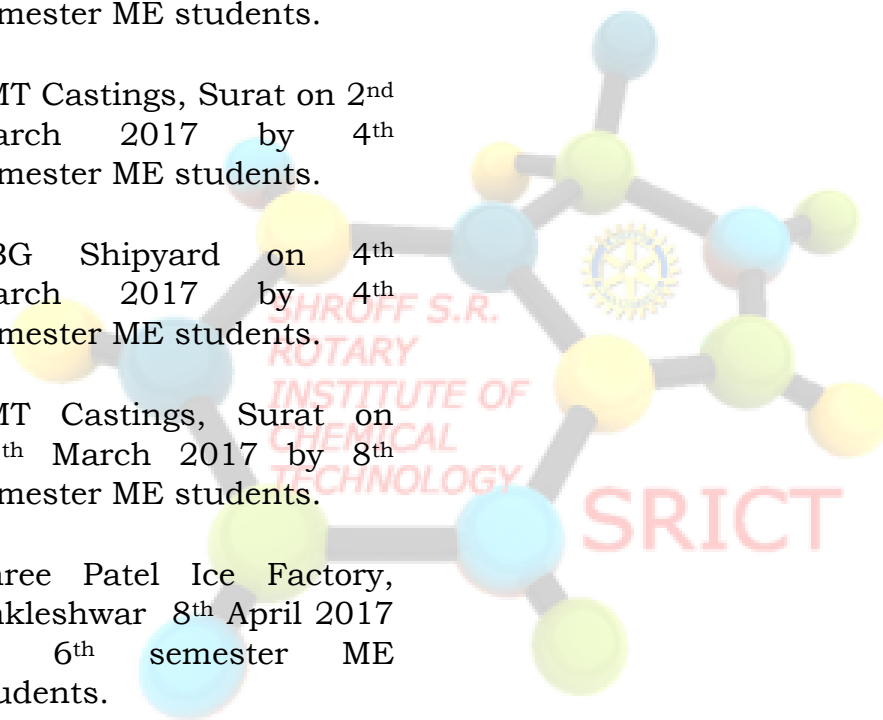
- AMUL (Anand Milk Union Limited), Anand on 16th January 2017, by 8th semester EST students.
- Sajjan India Pvt. Ltd. Ankleshwar on Feb 09, 2017 by 4th semester EST students.

- UPL-1 GIDC Ankleshwar on 17th March 2017 by 8th semester EST students.
- UPL-5 Jhagadia on 18th March 2017 by 6th semester EST students.

[DEPARTMENT OF MATHEMATICS,
SCIENCE AND HUMANITY]

- Ganesh Sugar on 4th Mar, 2017 by 2nd semester CE students.
- Shree Colosperse Private limited on 18th Mar, 2017 by 2nd semester CE students.
- Ganesh Sugar on 4th Mar, 2017 by 2nd semester EE students.
- Shree Colosperse Private limited on 17th Mar, 2017 by 2nd semester EE students.
- Ganesh Sugar on 4th Mar, 2017 by 2nd semester EST students.
- Shree Colosperse Private limited on 17th Mar, 2017 by 2nd semester EST students.

- Colourtex, Vilayat on 18th January 2017 by 8th semester ME students.
- SPRERI, Anand on 15th February 2017 by 8th semester ME students.
- Godrej Industries 30th January 2017 by 6th semester ME students.
- JMT Castings, Surat on 2nd March 2017 by 4th semester ME students.
- ABG Shipyard on 4th March 2017 by 4th semester ME students.
- JMT Castings, Surat on 30th March 2017 by 8th semester ME students.
- Shree Patel Ice Factory, Ankleshwar 8th April 2017 by 6th semester ME students.
- Narmada Fabrications, Ankleshwar 8th April 2017 by 6th semester ME students.



WE NAYAK TRAINING & PLACEMENT

[DR SNEHAL LOKHANDWALA- HEAD-EST DEPT & INCHARGE T&P CELL]

Placement Record (2012 Admission Batch Student): As on 10th April 2017

Total industries who came for the placement till date: **58**

Branch	Total students	Total registered	Final placed	% placed
CE	67	49	49	100%
ME	74	59	56	94.9%
EST	27	24	24	100%
EE	60	51	51	100%
PT	14	09	9	100%
PR	10	08	8	100%
DP	6	04	4	100%
TOTAL	258	204	201	98.5%

TECHNICAL ARTICLES: प्रयुक्तिलेख

TITLE

AUTHOR

THE WHITE PILL - ASPIRIN

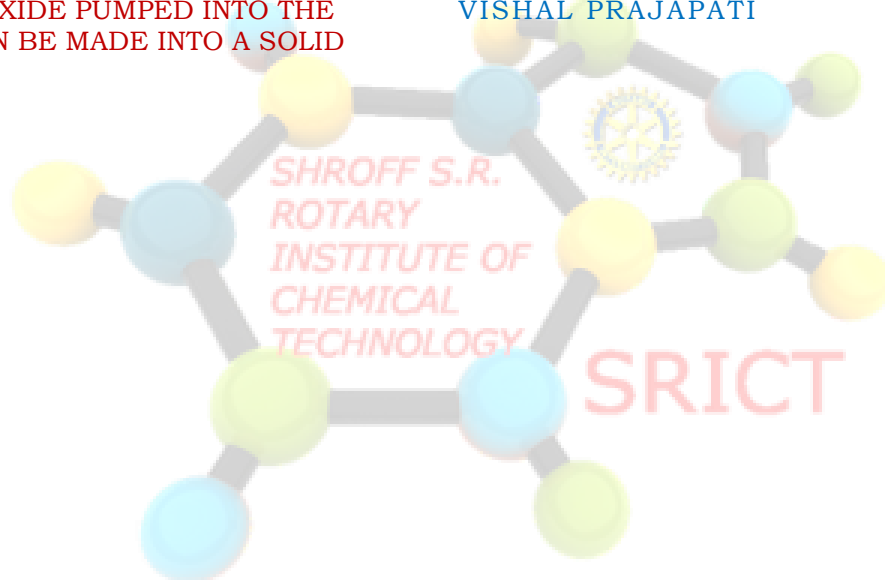
SHRIYA GANGAKHEDKAR

OVERALL STAGES IN PIGMENT DISPERSION

NILESH PRAKASH BADGUJAR-ASSISTANT
PROFESSOR, DYES & PIGMENTS
TECHNOLOGY (CT)

CARBON DIOXIDE PUMPED INTO THE
GROUND CAN BE MADE INTO A SOLID
STONE

VISHAL PRAJAPATI



THE WHITE PILL- ASPIRIN

[SHRIYA GANGAKHEDKAR, SECOND YEAR STUDENT, GOVT COLLEGE OF PHARMACY, AURANGABAD]

Suffering from fever, pain or inflammation in the body? Then your doctor is most likely to prescribe you these small white pills commonly known as “Aspirin”. Aspirin or acetylsalicylic acid is also prescribed to patients with cardiovascular diseases to lower the risk of heart attacks, clot related strokes and other blood flow problems.

Salicylic acid, the active ingredient in aspirin was first found in the bark of a Willow tree in 1763 by Reverend Edmund Stone of Chipping-Norton, England. In 1853, French chemist Charles F. Gerhardt synthesized primitive form of aspirin which was a derivative of salicylic acid. “Bayer AG” a German pharmaceutical company first marketed Aspirin in 1899 and dominated the production of pain relievers until World War one. The manufacture of aspirin has led to advancements in pharmaceutical manufacturing as a whole with significant mechanization occurring during the early 20th century. Today the manufacture of aspirin is highly automated and in certain pharmaceutical companies it is

completely computerized. Although the process of making aspirin differs for different pharmaceutical companies, it is not as complex as other drugs.

To produce aspirin tablets, corn starch and water is added to acetyl salicylic acid to act as binding and filling agent. Binders help to hold the tablets together while fillers are used to fill up the tablet to the desired size. Nowadays, lubricants are also used in order to keep the mixture from sticking to the machinery. Chewable aspirin tablets differ only with the fact that fillers such as sucrose & lactose are used in order to allow the pill to dissolve faster and give a more pleasant taste.

The ingredients are first carefully weighed, then mixed together in a mixing machine called the “Glen mixer” which also aids in removing air from the mixture. Once the mixture is ready, it is mechanically separated into units of about 7/8 to 1 inch in size. The units are called “slugs”. Small batches of slugs are forced through a mesh screen by hand held spatula made of stainless steel. If batches of slugs are large, they are filtered through a machine called “Fitzpatrick mill”.

In the compression process, the mix is compressed into tablets by single-punch machine for small batches or a rotatory-punch machine for large scale production. Before packaging, the tablets are gone through a series

of tests. They are tested for hardness in a machine called “Schleuniger (or Heberlein)”. They are also tested for friability, which is to see if they can withstand the rigors of packaging and shipping. The machine used to test this is called “Roche Friabilator”. The tablet disintegration test is used to check if the tablets dissolve at the desirable rate. This is done using the “Vanderkamp” apparatus.

Once a tablet passes these tests, it is sent to an automated bottling assembly line where they are dispensed into clear or colour coated plastic or glass bottles topped with cotton packing, sealed with a sheer aluminum top along with a plastic or rubber child proof lid to discourage & detect product tampering. The bottles are finally labeled with product information mentioning the expiry date. These are then finally sent to the distributors for marketing.

Aspirin use has increased with almost 50% of those aged 65 and above reported to be taking aspirin daily or every other day. No medicine is completely safe. Every prescription & ‘over the counter drug’ has benefits and risks. Medicines as common and familiar as aspirin can result in serious side effects like yellowing of eyes or skin, bloody or black tarry stools, red or dark brown urine. Allergic reactions like skin rash, itching, swelling of face, lips or tongue are also observed. Minor side effects include

diarrhea, constipation, headache, nausea, vomiting, stomach gas, and heartburn. An overdose of aspirin could lead to rapid heartbeat, uncontrollable rapid breathing, temporary deafness, drowsiness or could even lead to coma. No antidotes currently exist for aspirin poisoning. Hence extremely high doses of aspirin are life threatening. Serum salicylate levels of 150 to 300 mcg/ml are associated with anti-inflammatory response. However, the incidence of toxicity increases with salicylate levels greater than 200 mcg/ml. It is time we start thinking twice before we end up taking overdoses of medicines and harming our health. So let's stay safe and fit by following our doctor's advice on using aspirin and enjoy its overwhelming benefits.

OVERALL STAGES IN PIGMENT DISPERSION

[NILESH PRAKASH BADGUJAR-
ASSISTANT PROFESSOR, DYES &
PIGMENTS TECHNOLOGY (CT)]

Compared to the effects of pigments, nano-pigments improve scratch, abrasion, heat, radiation and swelling resistance, decrease water permeability, and increase hardness, weatherability, modulus and strain to failure while maintaining toughness. Such high performance smart pigment production can be accomplished by effectively controlling shape, particle size or surface of the pigment during its dispersion in polymeric binder. The constantly increasing requirement of ultrafine powder in several industrial applications such as nano-material synthesis, biomedical engineering, mineral engineering, catalyst synthesis, paint production etc. has increased the interest of scientists and engineers on comminution and dispersion processes. Therefore it is necessary to simulate the performance of dispersion equipment over a wide range of operating conditions. Fine particle dispersion is manufactured by a two-step process: pigment wetting and stabilization via mixing and dispersing; followed by grinding. [El-shall h., et al., (1984)]

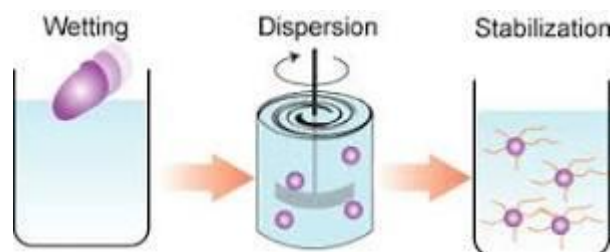


Figure 1: stages of pigment dispersion

PIGMENT WETTING

The purpose of the pigment wetting is to replace air and moisture adsorbed by the surfaces of the pigment particles and the pores of the pigment agglomerates of resin. [V. C. Okore , A. A. Attama, K. C. Ofokansi, C. O. Esimone and E. B. Onuigbo (2011)] Roger F G Brown et al (2012), studied the complete wetting out of the primary sized pigments particle helps to enhance the technical performance of a liquid coating that depends very much on interaction between the pigment particles and the binder system.

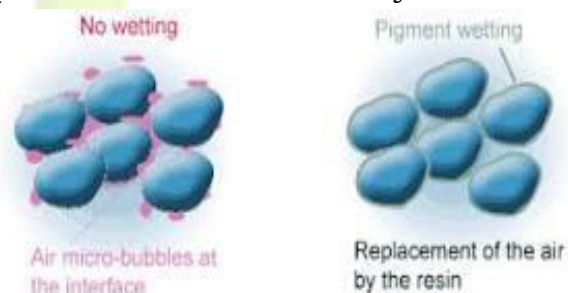


Figure 2: Pigment Wetting

Dispersing additives, which adsorb on the pigment surface, facilitate liquid/solid interfacial interactions

and help to replace the air/solid interface by a liquid medium/solid Interface. Dispersion is the process of breaking agglomerates into small particles by impacting and wetting these particles with media so that the particles remain suspended indefinitely.

For the liquid wetting the solid, wherein the surface tension of the liquid must be lower than that the solids. A liquid with a low surface Voltage wets pigments better than a higher surface tension. An additive improves wetting must therefore is reduced primarily to the liquid surface tension. However, wetting and dispersing additives not only the surface tension of the liquid. When the pigment affinity cause them to groups to be adsorbed the pigment surface, they also alter the interface. The surface tension is no longer that between pigment and liquid but between additive and liquid.

DEAGGLOMERATION (MECHANICAL BREAKDOWN OF AGGLOMERATED)

Dispersing or milling is taken to mean the homogeneous distribution of disperse solid particles (e.g. pigments) in a liquid medium (mostly a solution of binder), i.e. deagglomeration. The various types and grades of pigments differentiate considerably in the toughness of the aggregates and agglomerate that

they contain. The lumps in any one pigment are said to break up in a stepwise fashion as the shearing or impact stress on the increases particles. Because of the various combinations of weak and strong fractions in pigments, one pigment may yield superior fineness to another at low shearing stress but be inferior to it at higher shearing stress. For this reason, ratings at several different levels of shearing stress are required for a comprehensive evaluation of ease of dispersion.

A secondary characteristic of a pigment often did enters into its ease of dispersion is its consistency producing properties. In some mills, the stress on each agglomerate is applied through the medium of the paste itself; consequently, if the paste is thin no large stress can be applied to the agglomerate. For example, it is difficult to obtain good fineness in a heavy duty, dough type mixer with some pigments and vehicles because even at high pigmentation, a flocculated condition yielding a readily sheared paste prevents application of high stress to the individual agglomerate. The exact application of consistency data to formulating and predicting performance on a Particular mill is very complex, but even limited information on consistency is often useful in anticipating or explaining dispersion effects on various mills.

In fact, many studies in dispersion primarily are studies in the creation of various consistencies and how synthesis consistencies relate to dispersion on certain mills.

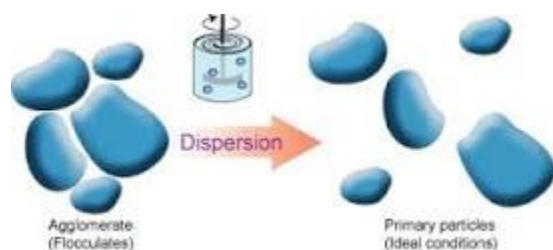


Figure 3: Deagglomeration

The purpose of dispersing agents is to stabilize the deflocculated pigment dispersions, which were produced by the dispersing process, for a protracted period of time; i.e. the pigment particles must be prevented from flocculating [Wilfried Scholzm (2004)]. The additive reduces the interactions between the pigment particles and lowers the viscosity of the mill base. This allows higher pigment loadings to be achieved, which is particularly important for the mechanical dispersion process.

Mill base formulations which have been optimized in this manner are suitable for all modern grinding equipment: such as dissolver, bead mills and roll mills. In the dispersion process itself, the pigment agglomerates are broken up into primary particles and smaller pigment aggregates. Usually

aggregates cannot be broken up. The primary particles in aggregates are so strongly bound surface to surface that it is practically impossible to break them apart. Account is taken of this in pigment manufacture and the proportion of aggregates is specifically controlled. Their amount can affect the color tone of a pigment.

STABILIZATION OF PIGMENT SUSPENSION

The objective of stabilizing the pigment particles, keeping them separate as achieved in the last stage, and control during film formation the degree of pigment particle size by the let-down and filling phase storage and later in coating films.

Flocculated pigment suspensions are determined by the spatial distribution is not uniform from the particles allows for immediate inter-particle contacts. This results in poor rheology (intrinsic viscosity, Blob Flow), short shelf life (in colour) and poor optical properties and colour (in layers).

It is known that even well-honed, but not stabilized, fine particle size pigment suspension can be easily destroyed in an inappropriate colour base by renting down: flocculation usually aborts when shear is applied and form again when the shear is removed.

Therefore, immediately after grinding pigment suspensions must be stabilized by the addition of additives, whether they should be used immediately in let-down or pigment preparations (pigments).

Dispersion — colloid stabilization:

The stability of a colloidal system is determined by the sum of potential energies based on Vander Waals attractive (VA) and electrical double layer repulsive (VR) forces that exist between particles as they approach each other due to the Brownian motion they are undergoing [Longcheng Liu and Ivars Neretnieks (2010)].

Fabio L. Leite, Carolina C. Bueno, Alessandra L. Da Róz, Ervino C. Ziemath, and Osvaldo N. Oliveira, Jr.(2012), investigated that the in paints and coatings many interfaces exist and their properties can be modified with surface active materials. Such surfactants are used in fairly small quantities (below 1%) and are termed as “additives” in coating technology. Dispersion properties can be greatly improved by addition of a polymeric dispersant.

Tharwat F. Tadros (2007) studied that the dispersing additives which function by steric hindrance display two special structural features. First, such products contain one or

more so-called “pigment-affinic” groups - anchor groups or adhesive groups – that all together provide a strong, durable adsorption onto the pigment surface. Second, such products contain resin-compatible chains (hydrocarbon entities) which, after adsorption of the additive onto the pigment surface, protrude as far as possible from the pigment into the surrounding resin solution. This layer of adsorbed additive molecules with the protruding chains is referred to steric hindrance or entropic stabilization. Coatings additives normally do not trigger new developments in coatings but they can be the crucial factor to make a new and innovative coatings system successful in the market.

It is not enough "wet" to particles from the continuous phase to make a stable colloidal dispersion. It is important that attractive forces are to be realized between the always in pigment dispersions. These are the London, van der Waals (or Surface) forces. These attractive forces are a result of the attractive inter-atomic Forces between the atoms that make up all particles. Polar materials exert electrostatic forces to other dipoles (Keesom forces [Ortega-Vinuesa J., Martin-Rodriguez A., Hidalgo-Alvarez R. (1996)] and polar molecules can attract non-polar molecules by dipoles induce (Debye Forces [James W. Swan, Eric M. Furst (2012)]).

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2. V. C. Okore , A. A. Attama, K. C. Ofokansi, C. O. Esimone and E. B. Onuigbo (2011) Indian J Pharm Sci, 73 (3): 323-328.
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4. Wilfried S (2004) CD proceeding 6th world surfactant congress, Germany, 1-9.
5. Longcheng Liu and Ivars Neretnieks, Literature Review on “Interaction between colloidal particles,” (2010) 11-13.
6. Fabio L. Leite, Carolina C. Bueno, Alessandra L. Da Róz, Ervin C. Ziemath, and Osvaldo N. Oliveira, Jr., Int J Mol Sci. 2012; 13(10): 12773–12856.
7. Tharwat Tadros, Colloids and Interface Science Series, Vol. 1 (2007) 1-21.

CARBON DIOXIDE
PUMPED INTO THE
GROUND CAN BE MADE
INTO A SOLID STONE

[VISHAL PRAJAPATI]

Carbon capture is an important part of maintaining the balance of CO₂ emissions on the planet. Whenever fuels are burned, all of the CO₂ that was stored within is released into the atmosphere. Humans have been causing this problem for a long time, and we are seeing the effects of global

climate change. Scientists in Iceland may have found a way to permanently capture carbon emissions so that they do not go into the atmosphere further harming the greenhouse effect.

CO₂ was pumped into volcanic rock in Iceland, which sped up a natural process that turns basalt into carbonate minerals, which then become limestone. This process normally takes hundreds of thousands of years, but the scientists in Iceland were able to do it in only two years. The result is carbon capture into a rock that could be stored underground or even used as a building material so that the captured CO₂ never reenters the atmosphere.



GENERAL ARTICLES

TITLE

AUTHOR

KEEP THE SPARK ALIVE

TEAM KATHAN

SHORTCUTS TO IMMEDIATE SUCCESS

ANJALI NAIR, ASSISTANT PROFESSOR

PRAYING HANDS PAINTING

TEAM KATHAN

IMPACTS OF DEMONETIZATION

RIZWAN KHANZARA, 6TH ME

INTERESTING FACTS ABOUT WATER

SAGAR BHATT, LAB ASSISTANT – EST
DEPARTMENT

JOURNEY OF 4 YEARS

VIKAS THAKUR, 8TH SEM ME
STUDENT

IMPORTANCE OF ENGLISH

ADWITIYA BHATTACHARYA, 6TH SEM EST
STUDENT

BENEFITS OF EPC

JESAL PATEL, 6TH SEM EST STUDENT

A NINTH PLANET WAS DISCOVERED IN THE
SOLAR SYSTEM

SHRISHAIL CHAUHAN, ME 2ND SEM

EARTH HAS A SECOND MOON!!

SHRISHAIL CHAUHAN, ME 2ND SEM

VENUS MAY HAVE BEEN A HABITABLE
PLANET IN THE ANCIENT PAST

SHRISHAIL CHAUHAN, ME 2ND SEM

FORPHEUS ROBOT TABLE TENNIS TUTOR

SAUMYA PANPALIA, ME 2ND SEM

KEEP THE SPARK ALIVE

[TEAM KATHAN]

Good Morning everyone and thank you for giving me this chance to speak to you. This day is about you. You, who have come to this college, leaving the comfort of your homes (or in some cases discomfort), to become something in your life. I am sure you are excited. There are few days in human life when one is truly elated. The first day in college is one of them. When you were getting ready today, you felt a tingling in your stomach. What would the auditorium be like, what would the teachers be like, who are my new classmates - there is so much to be curious about. I call this excitement, the spark within you that makes you feel truly alive today. Today I am going to talk about keeping the spark shining. Or to put it another way, how to be happy most, if not all the time.

Where do these sparks start? I think we are born with them. My 3-year old twin boys have a million sparks. A little Spiderman toy can make them jump on the bed. They get thrills from creaky swings in the park. A story from daddy gets them excited. They do a daily countdown for birthday party - several months in advance - just

for the day they will cut their own birthday cake.

I see students like you, and I still see some sparks. But when I see older people, the spark is difficult to find. That means as we age, the spark fades. People whose spark has faded too much are dull, dejected, aimless and bitter. Remember Kareena in the first half of Jab We Met vs the second half? That is what happens when the spark is lost. So how to save the spark?

Imagine the spark to be a lamp's flame. The first aspect is nurturing - to give your spark the fuel, continuously. The second is to guard against storms.

To nurture, always have goals. It is human nature to strive, improve and achieve full potential. In fact, that is success. It is what is possible for you. It isn't any external measure - a certain cost to company pay package, a particular car or house.

Most of us are from middle class families. To us, having material landmarks is success and rightly so. When you have grown up where money constraints force everyday choices, financial freedom is a big achievement. But it isn't the purpose of life. If that was the case, Mr. Ambani would not show up for work. Shah Rukh Khan would stay at home and not dance anymore. Steve Jobs won't be working hard to make a better

iPhone, as he sold Pixar for billions of dollars already. Why do they do it? What makes them come to work every day? They do it because it makes them happy. They do it because it makes them feel alive. Just getting better from current levels feels good. If you study hard, you can improve your rank. If you make an effort to interact with people, you will do better in interviews. If you practice, your cricket will get better. You may also know that you cannot become Tendulkar, yet. But you can get to the next level. Striving for that next level is important.

Nature designed with a random set of genes and circumstances in which we were born. To be happy, we have to accept it and make the most of nature's design. Are you? Goals will help you do that.

I must add, don't just have career or academic goals. Set goals to give you a balanced, successful life. I use the word balanced before successful. Balanced means ensuring your health, relationships, mental peace are all in good order.

There is no point of getting a promotion on the day of your breakup. There is no fun in driving a car if your back hurts. Shopping is not enjoyable if your mind is full of tensions.

You must have read some quotes - Life is a tough race, it is a marathon or whatever. No, from

what I have seen so far, life is one of those races in nursery school, where you have to run with a marble in a spoon kept in your mouth. If the marble falls, there is no point coming first. Same with life, where health and relationships are the marble. Your striving is only worth it if there is harmony in your life. Else, you may achieve the success, but this spark, this feeling of being excited and alive, will start to die.

One last thing about nurturing the spark - don't take life seriously.

One of my yoga teachers used to make students laugh during classes. One student asked him if these jokes would take away something from the yoga practice. The teacher said - don't be serious, be sincere. This quote has defined my work ever since. Whether it's my writing, my job, my relationships or any of my goals. I get thousands of opinions on my writing every day. There is heaps of praise, there is intense criticism. If I take it all seriously, how will I write? Or rather, how will I live? Life is not to be taken seriously, as we are really temporary here. We are like a pre-paid card with limited validity. If we are lucky, we may last another 50 years. And 50 years is just 2,500 weekends. Do we really need to get so worked up? It's ok, bunk a few classes, goof up a few

interviews, fall in love. We are people, not programmed devices.

I've told you three things - reasonable goals, balance and not taking it too seriously that will nurture the spark. However, there are four storms in life that will threaten to completely put out the flame. These must be guarded against. These are disappointment, frustration, unfairness and loneliness of purpose.

Disappointment will come when your effort does not give you the expected return. If things don't go as planned or if you face failure. Failure is extremely difficult to handle, but those that do come out stronger. What did this failure teach me? is the question you will need to ask. You will feel miserable. You will want to quit, like I wanted to when nine publishers rejected my first book. Some IITians kill themselves over low grades - how silly is that? But that is how much failure can hurt you. But it's life. If challenges could always be overcome, they would cease to be a challenge. And remember - if you are failing at something, that means you are at your limit or potential. And that's where you want to be.

Disappointment's cousin is frustration, the second storm. Have you ever been frustrated? It happens when things are stuck. This is especially relevant in India. From traffic jams to getting that

job you deserve, sometimes things take so long that you don't know if you chose the right goal. After books, I set the goal of writing for Bollywood, as I thought they needed writers. I am called extremely lucky, but it took me five years to get close to a release. Frustration saps excitement, and turns your initial energy into something negative, making you a bitter person. How did I deal with it? A realistic assessment of the time involved - movies take a long time to make even though they are watched quickly, seeking a certain enjoyment in the process rather than the end result - at least I was learning how to write scripts, having a side plan - I had my third book to write and even something as simple as pleasurable distractions in your life - friends, food, travel can help you overcome it. Remember, nothing is to be taken seriously. Frustration is a sign somewhere, you took it too seriously.

Unfairness - this is hardest to deal with, but unfortunately that is how our country works. People with connections, rich dads, beautiful faces, pedigree find it easier to make it - not just in Bollywood, but everywhere. And sometimes it is just plain luck. There are so few opportunities in India, so many stars need to be aligned for you to make it happen. Merit and hard work is not always linked to

achievement in the short term, but the long term correlation is high, and ultimately things do work out. But realize, there will be some people luckier than you. In fact, to have an opportunity to go to college and understand this speech in English means you are pretty damn lucky by Indian standards. Let's be grateful for what we have and get the strength to accept what we don't. I have so much love from my readers that other writers cannot even imagine it. However, I don't get literary praise. It's ok. I don't look like Aishwarya Rai, but I have two boys who I think are more beautiful than her. It's ok. Don't let unfairness kill your spark. Finally, the last point that can kill your spark is isolation. As you grow older you will realize you are unique. When you are little, all kids want Ice cream and Spiderman. As you grow older to college, you still are a lot like your friends. But ten years later and you realize you are unique. What you want, what you believe in, what makes you feel, may be different from even the people closest to you. This can create conflict as your goals may not match with others. . And you may drop some of them. Basketball captains in college invariably stop playing basketball by the time they have their second child. They give up something that meant so much

to them. They do it for their family. But in doing that, the spark dies. Never, ever make that compromise. Love yourself first, and then others.

There you go. I've told you the four thunderstorms - disappointment, frustration, unfairness and isolation. You cannot avoid them, as like the monsoon they will come into your life at regular intervals. You just need to keep the raincoat handy to not let the spark die.

I welcome you again to the most wonderful years of your life. If someone gave me the choice to go back in time, I will surely choose college. But I also hope that ten years later as well, your eyes will shine the same way as they do today. That you will Keep the Spark alive, not only through college, but through the next 2,500 weekends. And I hope not just you, but my whole country will keep that spark alive, as we really need it now more than any moment in history. And there is something cool about saying - I come from the land of a billion sparks.

SOURCE-Inaugural Speech for the new batch at the Symbiosis BBA program, Pune by Chetan Bhagat

SHORTCUTS TO IMMEDIATE SUCCESS

[ANJALI NAIR, ASSISTANT
PROFESSOR]

Actually there is no shortcut to immediate success but once you start working on something don't be afraid of failure and don't abandon it. People who work sincerely are the happiest. Attaining success, fame and respect is a cakewalk, if only the person knows the right trick and is ready to work on it.

There's always a viewpoint to anything and everything that you can see, hear or speak; viewpoint as a first person, the opponent's perspective and the outside world. Always before making any decision, a person must think of these viewpoints, to ensure his success.

A person, who comes across as an easy personality to please, or come to help, can never make a success his own possession. Remember, in the battlefield of competition, such people are easily overridden and ousted by their opponents.

Money is the only driving force of this world, the sooner you accept and understand this fact the better. It is important to create an illusion of wealth around you if you wish to seek immediate success; even if you do not possess it at the moment. The world blindly respects and trusts wealthy people.

In order to seek immediate success, one must maintain a balanced distance with the source of his success; he/she must never be either too far from it nor too close. Like in the case of fire- being too far from it would never let you be able to cook food, but you must also not be too close, as it possesses a threat to your life.

The first and foremost quality that distinguishes a successful person from the rest is 'Not regretting'. Anyone who laments for the time they wasted, or the decision they took or, could never be successful. Remembering the past is futile to regret. If you made a mistake in the past, to remember that would bring you nothing in life, but try to optimize the good learning from it for the present.

Money acquired through deceiving anyone, or earned after sacrificing your values and principles, due to closeness with people who demand to rule over your soul, is nothing but a poison for your success.

It is very important to deeply think about setting your foot out, before taking an important decision and speaking words out your mouth. A person who questions these three questions to himself/herself, before making a decision, can never go wrong in their life; what do I Need to do? What will be the Outcome? What Will Be Its Worth?

Every word that comes out of our or any decision that we take, not only

has an impact on our life but also risks the lives and integrity of other. If we wish to keep our success intact, we must give in full thought for each of our action.

Even a non-venomous snake will never ditch itself, by revealing it isn't poisonous enough to kill you. He will never put himself in a situation that would harm him in the end. Likewise, a person should never give in to a situation that they cannot handle.

Successful person, no matter how deeply in debt or suffering through personal crisis, would never let display a hint in their actions or on their face.

For an aroma to reach your sense of smell, it may require the support of air, but a successful person never awaits appreciation or support of others, to speak high of him/her. They do not believe in chasing accolades; instead, spend more time finessing them.

Do not wait for people to applaud, or appreciate your effort, concentrate on your work and let things follow.

It's always good to keep friends close, but great to keep your enemies closer. Animosity with a weak person can prove dangerous than a sting of a scorpion. Never forget or ignore a person who is weak, while you are riding high, neither share feeling of hatred, as their way of revenge is the meanest of all.

PRAYING HANDS PAINTING

[TEAM KATHAN]

There was a goldsmith who lived in Nuremberg during 15th century. He had around 18 children. He was the sole bread earner for the family. As a result his elder sons had to help him in his work.

Now it happened that two of his sons were having a dream to pursue career in the art. But as mentioned earlier, the family was large and hence father required every ounce of support that he could get. So boys decided that one of them would stay behind to support family as well as other while other would go and pursue study required. After completion of the study, he would come back and the one who stayed back would go and complete his study. Having settled thus, they decided to flip a coin and thus decide who would go and who would stay. Accordingly, the second numbered son who was known as Albrecht, won and went for study. The other son who had lost the coin decided to help his family.

Albrecht went for study. His brother who had tossed the toss joined coal mine in order to support the family and his brother. Years passed and Albrecht came back after completion of his studies. His parents gave him

warm welcome. They arranged dinner in his honor. After everyone settled in, Albrecht rose to give speech. He thanked his family and friends. He especially thanked his brother and announced that now he would take his brother's place so that his brother can complete his studies. Everybody clapped on this and everybody looked at his brother. His brother's eyes were filled with tears. Only thing that he could say was no. Everybody present were startled to hear this. Albrecht went to his brother and took his hands in his and asked him why he was saying no. His brother replied that past few years had changed him both physically and mentally. He showed his hands to his brother and said that not a single finger was present which had not broken over this year. He further added that he did not want his brother now to undergo this hardship and hence he would continue to support his family and Albrecht can go fulfill his dream.

Hearing this, Albrecht and all others had tear in their eyes. Albrecht went on to become one of the celebrated artist of his time and today we know him as Albrecht Durer. He became famous but he never forgot the sacrifice of his brother. He created painting which depicted hands of his brothers as a reminder for his sacrifice. This painting which is shown below is known as Praying Hands painting.



(Image Source: Wikipedia/Praying hands).

IMPACTS OF DEMONETIZATION

[RIZWAN KHANZARA, 6TH ME]

Demonetization is the act of stripping a currency unit of its status as legal tender. **Demonetization** is necessary whenever there is a change of national currency. The old unit of currency must be retired and replaced with a new currency unit. (Source:-Investopedia).

Demonetization is the process which affects different sectors of country. It affects human-life, business, real-estate, medical sector, etc. We here discuss about how demonetization affects business in India?

Demonetization represents much more than destabilization; critics argue that it has struck a body blow on economic activity in India. The decision – which was entirely

unsuspected – was announced on 8 November 2016. While the pros and cons of the measure still continue to be debated, the consensus of opinion appears to be that while the proponents of demonetization may have had good intentions, the suffering it has caused to millions of Indians is unwarranted. Since Rs500 and Rs1000 notes make up some 86% of the total currency in circulation in India, especially in the vast rural areas, one economist compared the pain to what individuals might experience if 86% of their blood was removed from their bodies.

It's work in progress. Three events dominated India's economic landscape last year, but whether they can be described as "progress" is debatable. One definitely isn't: the unseemly brawl that broke out over control of the Tata group with Ratan Tata returning as interim chairman after ousting incumbent Cyrus Mistry. A lot of dirty linen is being washed in public, putting partly in the shade the political charges being traded elsewhere.

The second is the goods and services tax (GST), whose objective is to replace all taxes levied by the federal government and the states with one central tax. The GST is scheduled to come into effect by April or at by September. Although both houses of Parliament have approved the bill and the President has signed off on it, a GST Council

is now squabbling over the details, which could delay implementation.

And the third is DEMONETIZATION, According to the polls: "28 per cent start-ups suggested that the business was affected, 33 per cent experienced no impact, 14 per cent saw receivables getting better or improvement in payments and 25 per cent did not have account receivables."

To fight against corruption, tax evasion and counterfeiting, our PM Narendra Modi has taken big step to scrap the high value currency notes which has brought a huge change in all industries. Now, all 500 and 1,000 rupee banknotes are no longer recognized as legal tender. For some it has brought dark clouds while for others the business is blooming with joy.

Effect of Demonetization on Various Sectors:

eCommerce Sector

In India, 90% of eCommerce transactions are carried out in cash (COD) option so retail segment is going bit downwards. Top eCommerce stores like Amazon, Flipkart, Snapdeal and others who had earned revenues through their sales during Diwali are now seeing downfall in their sales rate due to their COD system.

As survey conducted by, with 1000 people across India showed the below results for payment methods now a day:

Preferred payment method used after demonetization of Rs 500 & Rs 1000 notes when shopping online

Using Wallets like Paytm, Mobikwik etc. – 59%

Net Banking – 23%

Cash on Delivery (CoD) – via using Debit/Credit card – 18%

Cash on Delivery (CoD) – via Cash – 1%

Food and Grocery Businesses

On the other side Online Food and Grocery businesses are making money above all. As stated by foodpanda.in CEO Saurabh Kochhar, that his firm has seen the number of orders going up by 40-50% since November 8. The reason behind the same is that the value involved in food orders is quite low as compared to other segments. “As our order value ranges between Rs.400-500, consumers do not mind paying online,” Kochhar said.

Low cash supply in the market with limit set on daily withdrawal amount via ATM as Rs.2000, online grocery sales has marked quiet growth. Viewing to the market condition, people now a day hesitate to spend cash as they save it for any emergency. Fulfilling the daily urges had led them to purchase groceries online via net banking and wallet system. Brands like Big basket, Grofers and other online grocery firms have seen tremendous growth.

Big Basket has seen a 25% jump in online transactions.

Start-ups

Startup industry has mixed views on demonetization. Mobile wallet companies have witnessed huge surge in volume and number of users. Vishwas Patel of CCAvenue stated it as a good move and his company has witnessed almost 40% rise in volumes as more people are coming online.

According to a survey conducted by the LocalCircle, “A higher percent of start-ups and small and medium-sized enterprises (SMEs) experienced a slowdown in funding and expansion plans,”

mCommerce Industry

If we see mCommerce industry, the effect has been almost similar in Grocery and Restaurant businesses. A big boom in sales has been viewed for the respective segments. To avoid the queues of banks and ATM's, people are getting used to paying online. This has provided a huge platform for payment gateways such as Mobikwik, Paytm, etc where the user counts are increasing at faster pace. In the first hours after the announcement, Paytm says it experienced a 200% increase in mobile downloads and a 250% increase in overall transactions.

Well these are the short term effects of demonetization. It was found in the survey that 86% of the startups and SMEs saw demonetization to have a positive impact in the long

run. So, definitely in long run, it will show a positive effect for all online businesses. Due to cash crunch, people are trying to get habituated to online payment methods in fact many have already started as seen above facts and figures of mCommerce industry.

Demonetization is perhaps the most revolutionary act since Independence of India. It is needed and of course I'm also baffled by the introduction of Rs2000 denomination. As there was no precedence, the goal posts kept on getting changed, causing confusion. As usual the crooks have a way out and thanks to some banksters, a good amount of new currency notes found a way out to the hoarders. Some 6 million account holders have deposited more than Rs200,000 cumulatively in the period between Nov 8 and Dec30. Many are inoperative and/ or special accounts like Jandhan. Once IT dept scrutinizes these accounts many cats will be out of their bags. As rightly pointed out by the correspondents the black money which is idle, when added to the system the GDP will increase. The black money, in general is found in transactions like real estate and jewelry, as many of the jewelry merchants are in real estate too. To make the real estate pay per government rates, the only way is E-registering any property transaction. This act should extend to existing

properties also to have a level playing field, forcing the property owners to acknowledge the value of their property as per guideline prices.

The GST conundrum, which is put on a low fire shall get its kick soon after the midterm elections in the state assemblies and hoping BJP comes to power in these assemblies will force the opposition ruled states like Bengal, Karnataka etc. to toe the line. The time frame of September 2017 is within the reasonable estimate.

Commenting on demonetization, experts said that any disruption in the flow of money, verily the economy's lifeblood, impacts business cycles quickly. There is no precedent to the scale of demonetization that has taken place in India. That is why quantifying its impact is so difficult. A few countries that replaced their old currency with new did it in a gradual manner — the introduction of the euro in the Eurozone, or in Zimbabwe where the old currency was gradually phased out.

To sum up, demonetization can only be a part of a comprehensive strategy to tackle corruption and generation of black income, and it is likely to impose substantial pain because of the adverse effect on GDP and low-end employment. The more important part of the fight against corruption involves the other set of measures listed above.

Progress on these would make a real contribution to reducing the long-term gain of reducing the generation of black income over time.

INTERESTING FACTS ABOUT WATER

[SAGAR BHATT, LAB
ASSISTANT – EST
DEPARTMENT]

1. Water is everywhere—there are 332,500,000 cubic miles of it on the earth's surface. But less than 1 percent of it is fresh and accessible, even when you include bottled water.

2. The new Water Recovery System on the International Space Station recycles 93 percent of astronauts' perspiration and urine, turning it back into drinking water.

3. Ice is a lattice of tetrahedral bonded molecules that contain a lot of empty space. That's why it floats. Even after ice melts, some of those tetrahedrons almost always remain, like tiny ice cubes 100 molecules wide. So every glass of water, no matter what its temperature, comes on the rocks.

4. Scientists have a less explosive recipe for extracting energy from hydrogen and oxygen. Strip away electrons from some hydrogen molecules, add oxygen molecules with too many electrons, and bingo!

You get an electric current. That's what happens in a fuel cell.

5. Vicious cycle: Water in the stratosphere contributes to the current warming of the earth's atmosphere. That in turn may increase the severity of tropical cyclones, which throw more water into the stratosphere. That's the theory, anyway

6. The misinformation might have come from a 1945 report recommending that Americans consume about "1 milliliter of water for each calorie of food," which amounts to 8 or 10 cups a day. But the report added that much of that water comes from food—a nuance many people apparently missed.

7. Drinking significantly more water than is needed can cause "water intoxication" and lead to fatal cerebral and pulmonary edema. Amateur marathon runners have died this way.

8. Recent evidence suggests that when the solar system formed 4.5 billion years ago, comets had liquid cores. If so, life may have started in a comet.

JOURNEY OF 4 YEARS

[VIKAS THAKUR, ME 8TH SEM
STUDENT]

Scoring good marks in 11th and 12th but not enough for government college admission was a

disappointing thing for me thousands of questions were going through my mind now what? , Now Where etc. and there were no answer with me for this questions.

Than with god grace and my strong determinations I was able to acquire seat in our college SRICT, my school friends started criticizing me that even after getting such good marks why are you going into the college where the cut-off are so high you can get better college than this to that I replied that I have got admission on free seat, I don't have to pay any fees throughout my 4 years this would help my parents and reduce the tension of my fees adjustment throughout my engineering.

31st July 2013 the first day I entered in college I was very scared my heart beats were running very fast, each second new questions were rising in my mind how I will manage all the required things by staying away from home at a place where everyone was unknown.

From the first day only all the faculties started interacting with me, trying to involve all the students in what they were teaching this gave me lots of confidence because I was at wrong belief that studying with Gujarati medium students would hinder my development. Slowly and Steadily I started making Friends, I was very happy by getting good and

supportive both friends and faculties because from first year only they were providing many opportunity to grow and develop other than studies.

I was Boosted at my highest possible speed and happiness during 1st Year only when my college awarded me as Best student Award runners up for my good performance in all the aspect after started working even harder, involving in as many activities as possible, I forgot that I was away from home, all this was possible because of good friends and my college.

Then I stated loving when I was at my college there were n-number of thing that I was liking about my college to list few them like the facilities of 3 Industrial Visits and 3 Expert lecture in each semester to explore the students with industrial environment and to gain Knowledge other than books which are very necessary, library facility with great books and digital library, Cash reward for everyone to boost up the student academic performance, I am proud to receive this reward in every semester, one of the most important thing is the one-to-one meeting with Panjwani sir where students comes up with problems and it was directly Solve under guidance of Panjwani sir.

Sand of time was running out my hand in all sorts of work like Assignment, Presentation, cultural Program, Sports, Canteen, Lectures, technical events etc semester were coming and going very fast, many ups and downs came during this interval but with such good friends and college I was able to sort out all the problems. During my college I was provided with n-number of skills, talent, experience which I have never thought of getting. My college provided me all the things I wanted, it has not only fulfill my dreams but also the dreams of my father, my mother, my brother etc.

Getting a Placement at UPL is one of my biggest achievement till now and the whole credits goes to my college and my family because without their support in my hard times it was not possible, I Thank all my well-wisher of SRICT from bottom of my heart for giving me so many useful skills which are required for my development.

If I describe my journey in detail it would be very long, so to cut short by a last paragraph by saying that my eyes are full of tears when I think of ending of my college life at SRICT. I have come here with a small bag fill with clothes but I am going with a huge bag of beautiful memories and knowledge which will always make me laugh throughout my life.

THANK YOU SRICT, for all you have done for me.....

Keep doing same things; the day is not far when our college would be called as IIT, Vataria.

IMPORTANCE OF ENGLISH

[ADWITIYA BHATTACHARYA,
6TH SEM EST STUDENT]

English plays an important role in our everyday life. There is great utility of English in modern world. In this land of innumerable regional languages in different States, English serves as a link-language in the country. The study of English in this era of globalization is essential for all. It holds an important place in our life.

English language is widely used in official communications. Most office-goers know English, thus they communicate with each other in English for their everyday work.

The importance of English in education and student's life cannot be denied. English remains a major medium of teaching in schools. There are a number of books that are written in English language. If English is abolished today, it will affect the education system in India.

Students who want to go abroad for education will have to learn English

well. If their command over English is poor, then they may face difficulty in adjusting with the alien environment.

The communication of India with other countries takes place in English language. For a developing country like India, it is essential to be in constant intercourse with other countries.

English is an important language for inter-state communications. Modern India has many large States. People of each State converse in their own language and often cannot speak or understand the regional language of other people. In such cases, English becomes the link between these people. So, here too we cannot deny the importance of English in modern India.

English is the most commonly spoken language in the world. One out of five people can speak or at least understand English!

English is the language of science, of aviation, computers, diplomacy, and tourism. Knowing English increases your chances of getting a good job in a multinational company within your home country or of finding work abroad.

English is the official language of 53 countries. English is spoken as a first language by around 400 million people around the world.

English is also the language of the Internet. Many websites are written in English, by learning it we will be able to understand them and to take part in forums and discussions.

English is based on simple alphabets and it is fairly quick and easy to learn compared to other languages.

English is not only useful — it gives you a lot of satisfaction. Making progress feels great. You will enjoy learning English, if you remember that every hour you spend gets you closer to perfection.

Since English is spoken in so many different countries there are thousands of schools around the globe that offer programmes in English. If you speak English, there are lots of opportunities for you to find an appropriate school and course to suit your academic needs.

By learning English, you will also learn about other cultures. Few experiences will make you grow as a person more than learning the values, habits and way of life in a culture that is different from yours.

BENEFITS OF EPC

[JESAL PATEL, 6TH SEM EST STUDENT]

English whether you like it or not, is chosen as official language for

international communication. EPC made us realize that it is a dominant language in science, business, entertainment & diplomacy and also on the internet. EPC helps in most fields of work and improves the ability to publically speak which is important to advance ones career. EPC is an initiative with slow but assured results in future. Students need to understand that it is not just about learning grammar and cramming up the basic rules of grammar. It is one of those thousand ways which have been discovered, developed and implemented in the most effective manner. Our college has provided us one such support at no additional cost and time. EPC makes the language fun by arranging debates, group discussions, and other English fun activities. What few of my close friends have witnessed is English language takes time and dedication, but speaking effective English is possible if you are determined.

A NINTH PLANET WAS DISCOVERED IN THE SOLAR SYSTEM

[SHRISHAIL CHAUHAN, ME 2ND SEM]



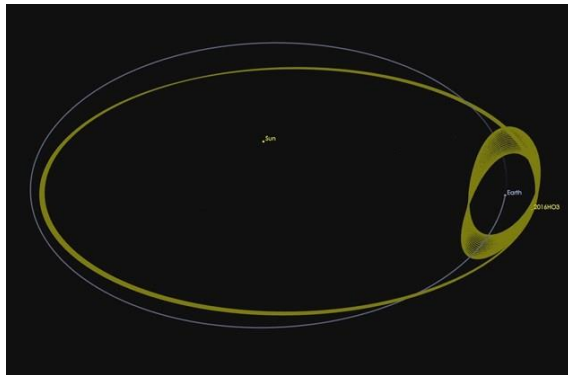
Before the discovery of pluto in the 20th century, it had been theorized that a ninth planet, planet x, existed beyond neptune due to the gravitational clustering that could only be caused by a massive object. it was then believed that this planet was found in pluto, but that never fully quantified the gravitational distortion until scientists at the california institute of technology presented evidence that a ninth planet truly does exist with an orbital period of 15,000 years.

The astronomers who published their discovery have calculated that there is “only a 0.007 percent chance, or about one in 15,000, that the clustering could be a coincidence.” presently, planet nine remains hypothetical, but astronomers have calculated its orbit to be quite massive. If it does exist, the planet would likely be approximately 2–15 times the mass of earth and orbit between 200 and 1,600 astronomical units (au) from the sun. An au is 150,000,000 kilometers, which means that the

planet could orbit as far from the sun as 240,000,000,000 kilometers

EARTH HAS A SECOND MOON!!

[SHRISHAIL CHAUHAN, ME 2ND SEM]



NASA scientists discovered an asteroid that has been captured and is in stable earth orbit, making it a constant near-earth companion, or a second satellite. There are a lot of objects orbiting this planet—space stations, man-made satellites, and lots and lots of junk—but only one moon that we can see. Now, nasa has confirmed the existence of 2016 ho3.

The asteroid orbits very far from earth and is more gravitationally affected by the sun than earth, but it does orbit earth as well along its orbital path of the sun. Don't get too excited about walking on it one day, as it is considerably smaller than our natural satellite with dimensions

of 40–100 meters (130–350 ft) across.

2016 ho3 is in a fairly stable orbit around the earth and sun but will depart in a few centuries according to paul chodas, manager for NASA'S center for near-earth objects (neo). Chodas also revealed that 2016 ho3 has been a stable quasi-satellite of earth for more than a century.

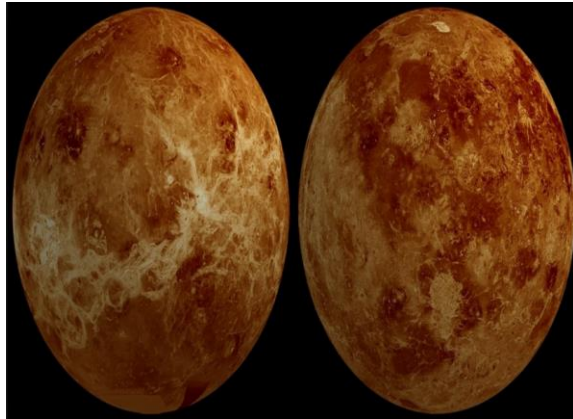
VENUS MAY HAVE BEEN A HABITABLE PLANET IN THE ANCIENT PAST

[SHRISHAIL CHAUHAN, ME 2ND SEM]

We've always looked to mars as the most habitable planet nearest to us, but recent findings could indicate that venus may have had a very different past than we once thought. According to new discoveries over at [nasa](https://www.nasa.gov), for a couple billion years in venus' early history, the planet may have had a shallow liquid-water ocean and surfaces temperatures much cooler than its current 864 degree climate.

“Many of the same tools we use to model climate change on earth

can be adapted to study climates on other planets, both past and present,” said michael way, a researcher at giss and the paper’s lead author. “These results show ancient Venus may have been a very different place than it is today.”



FORPHEUS ROBOT TABLE TENNIS TUTOR

[SAUMYA PANPALIA, ME 2ND SEM]

Guinness World Records has recognized a robot with a unique ability: a machine called FORPHEUS is officially the “first robot table tennis tutor.”

The contraption, which holds a ping pong paddle and can play against and even teach a human, taps artificial intelligence to determine the ability of its opponent. It uses two vision sensors to keep a robotic eye on the ball, as well as a movement sensor that focuses on the human player’s movement.

While the robot looks serious and perhaps even sinister on the outside, it can display positive

messages on the artificial net of the ping pong table, saying things like “Good job! Hang in there!”

The machine is easily able to act as a coach thanks to cutting edge vision and motion sensors it can use to gauge movement during a match.

FORPHEUS also features an array of cameras that are situated above the ping pong table which monitors the position of the ball at an impressive rate of 80 times per second.

This functionality also allows the robot to show its human student to see a projected image as to where the return ball will land so that they may improve their skills



Omron's table tennis robot is getting smarter. At this week's Ceatec electronics show in Japan, the company has unveiled a new version

that uses machine learning to assess the strength of an opponent and ramp up its game accordingly.

The robot, named Forpheus, was first shown at the event in 2014 to impressive reviews. A series of robotic arms manipulate a table tennis bat, guided by cameras that watch the ball and predict where it's going to land.

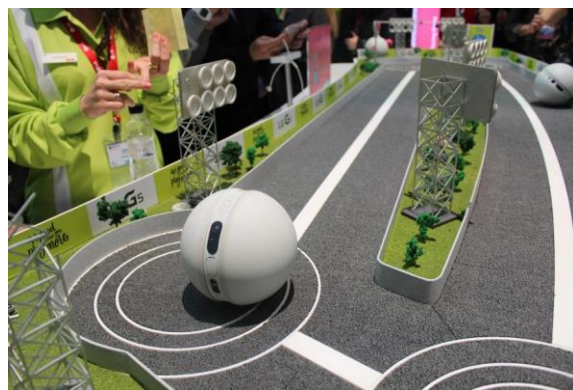
Omron developed the robot to promote the company's sensor technology and this latest version is showing off some of what can be done when sensing combines with machine learning and artificial intelligence.

As soon as a human player serves a ball, the robot begins ranking the player according to their perceived skill as a beginner, intermediate player or advanced.

It looks at the speed of the served ball, its trajectory, rotation and the body motion of the player to determine this, and does so with 90 percent accuracy, according to Omron.

The machine uses that information to customize its return ball, softer and easier for beginners, faster and more unpredictable for advanced players.

The use of artificial intelligence has also improved the robot's game. Its returns are now accurate to within 5 centimeters twice as accurate as the previous model.



The white plastic sphere comprises of two domed wheels bolted onto a central circular control unit. Slightly smaller than a bowling ball, the Rolling Bot looks like it could belong on the set of iRobot. You control the Rolling Bot with a smart phone app (available on Android and iOS), and with its built-in 8MP you get a visual from the robot as you drive it round your house. You can take pictures and record footage, and the Rolling Bot can connect to your home's web connection allowing you to control your Bot from anywhere in the world.

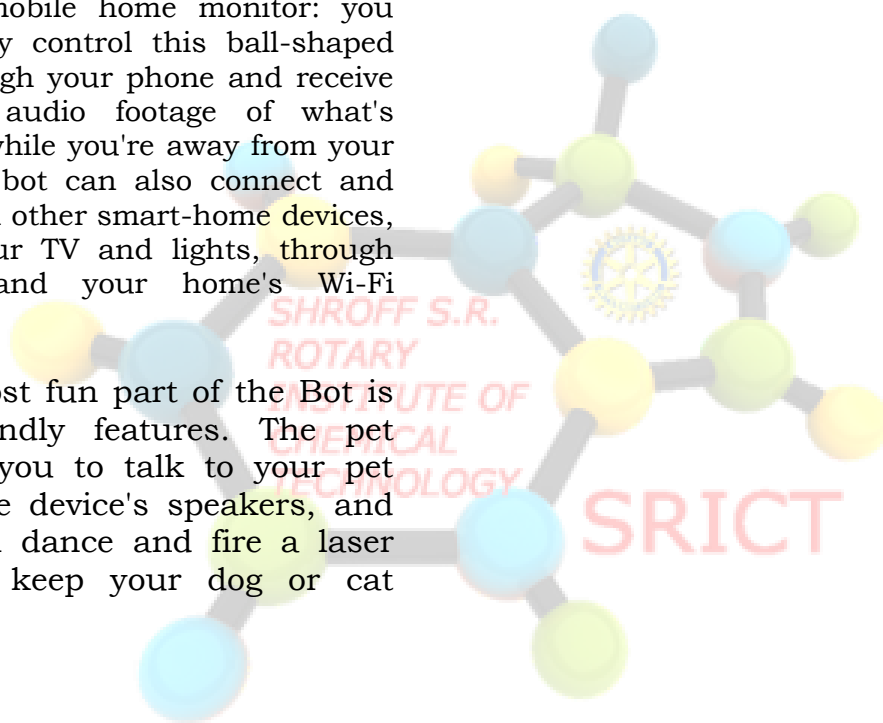
This means you can check on your home to ensure everything is in order, although it probably can't fend off an intruder. It may help put them off though, as the Rolling Bot also has a built in speaker.

LG's positioning this particular feature at pet owners, who can check up on their beloved animal when they're out of the house and offer them a few word of comfort - or simply shout at them to get off the sofa.

There's an added bonus for cat owners too, as the Rolling Bot also has "Pet Mode." Once activated in the app the Rolling Bot will move around by itself while shining a laser point for your moggy to chase. Why? Why the hell not?

The Rolling Bot runs off 512MB of RAM and a 5000mAh battery. It knows when it's getting low on charge, and will go and park itself in its charging dock when it's nearly out. It's a mobile home monitor: you can remotely control this ball-shaped device through your phone and receive video and audio footage of what's happening while you're away from your house. The bot can also connect and interact with other smart-home devices, such as your TV and lights, through Bluetooth and your home's Wi-Fi network.

But the most fun part of the Bot is its pet-friendly features. The pet mode lets you to talk to your pet through the device's speakers, and it will even dance and fire a laser pointer to keep your dog or cat stimulated.



LITERARY ARTICLES: साहित्यिकप्रबन्ध

TITLE

CATEGORY

THE HEART THAT NEVER STOPPED
BEATING

SHORT STORY

RE-ENTRY

POETRY

NEW YORK TIMES

POETRY

UNIVERSAL BROTHERHOOD ,PEACE &
HARMON

POETRY

मैं हूँ चिड़िया
5 WISE MEN

POETRY

MORAL STORY

THE TRUTH OF LIFE

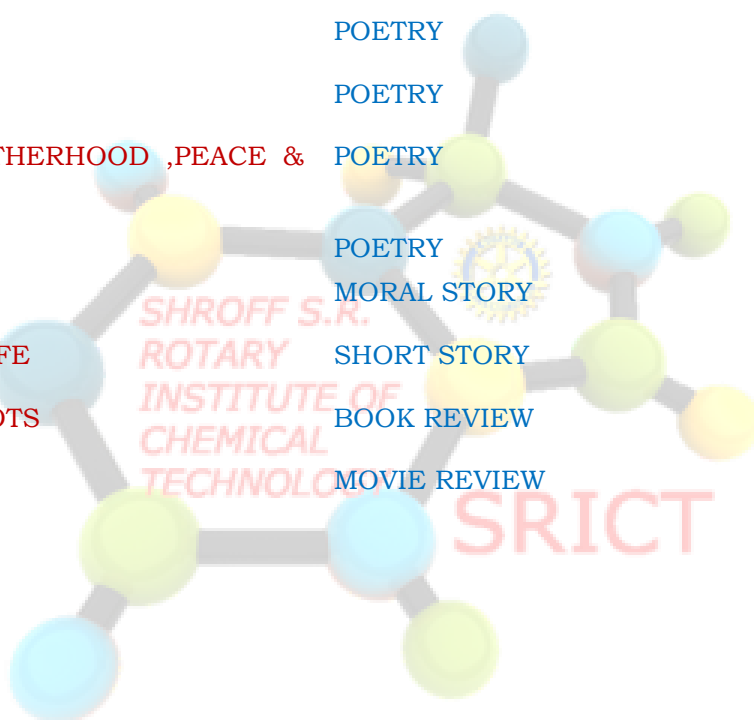
SHORT STORY

CONNECT THE DOTS

BOOK REVIEW

MIRACLE (2004)

MOVIE REVIEW



SHORT STORY:

THE HEART THAT NEVER STOPPED BEATING

[ISHWAR JADHAV & MANSI VAGHASIYA, 2ND CE]

Sir, your appointment is at 12'0 clock, the receptionist said handling the order.

"Okay", said looking at my watch still one hour left. I said to myself. I had no other option but to wait so I just sat in front of reception. Then I got busy in checking my social networking site.

While I was busy in doing nothing a soft but sad sobbing voice kept striking my ears. I tried to find out what was the source of that noise. I saw a boy about 18 years old was crying.

I couldn't help myself so I went near him and asked if he was okay "Why are you crying?" He was a smart looking boy who looked pale and tried in that hospital blue dress. He was carrying a big number of wounds on his body.

For few minutes, no one spoke there was an awkward silence. For two minutes, meanwhile the hospital chaos filled in the silence. Then a voice came and he uttered "Sorry" and started wiping his tears. 'It's okay' I said and asked if he was okay.

"Yes", he said and sat silently. I asked so why are you here'. "I had a heart transplant" he answered.

"OH!" It went well I guess as you are sitting next to me. I said [It was lame I was never good with some things]. "Yes" he said. But can I ask you a question! I said, "If your surgery went fine why were you crying?". "It's a long story he said and tears again started" he said and tears again started to fall from his eyes. I had nothing to do so I said "Please tell me, I want to know". "Okay" he said.

My name is Sarth. I have just entered my college. I live here in Delhi. I live with my grandparents as my mom-dad are in Mumbai for work.

Then suddenly he asked me a weird question "Who was the important person for me in life or who the most important person in my life was?" I was confused by the question but I answered "My parents, my wife, my kids and my friends".

"Okay" he said. "Basically, all these roles in my life was played by friend well off course not children and wife. But the role of parents and friends and a companion. His name is Preyansh

He was an orphan and lived in Delhi and got admission with me in my school. We were together from 6th grade. He is everything to me. I never got the love and affection. I should get from my parents, so I spent most time the day with him. Just like all teenagers we did lots of

fun together; Bunking, going for trips, night-outs. We spent as much time as we could together. We were soul brothers.

After completion of our higher secondary board, the school organized on farewell party. We were not at all excited as school parties were lame. We wanted to do something exciting and something worth remembering. So we decided to go on a bike trip. So on the day of farewell we took off. It was an old Bajaj bike which was unwillingly used by Preyansh. We were excited we talked, laughed, sang during the journey. We recalled our school memories how we bunked classes and all those canteen pranks. In every memory I had in my mind, Preyansh was with me, without him my life was like a plain book or an empty jar. We stopped in between to switch places. We reached our desired place spent some time there. It was getting dark so we set off again towards home. We were getting late so we decided to go faster.

Suddenly a truck came in front of us and it was all black, I could see nothing but lights and here Preyansh mourning, his legs were trapped in the bike, suddenly I felt pain in my chest and saw I was all covered with blood. Then someone picked us and put us in the ambulance I was looking at Preyansh he was looking at me. We both held each other's hand and I said to him, "Don't worry we will be fine". Preyansh said, "Yaa, I know bro but sorry if I ever hurt you and thank you so much for coming in

my life, in case we didn't make it" he smiled gently and said that he loved me we both passed out.

I woke up in hospital room, my parents and relative were standing there, they told me the story of accident that a piece of glass pierced in my chest and damaged my artery. But I didn't care about what they said I was only looking for Preyansh, I looked on to my side bed but the bed was empty so I asked them about him. Everyone become quiet.

I asked them again but no one answered then my grandpa come and hugged me and whispered that he is no more. I was shocked I couldn't believe it. It was like if some stopped my oxygen flow. I was sinking down like a ship tears rolling out of my eyes, I just want to ask that bastard why he didn't stay, why he left me alone?

My grandpa came and handed me a piece of paper, I opened it and read it.

Hey bro,

If you are reading this that means you are fine. But you would be angry as I am not there but I had to do it. I promised you that I will never say no to you. You needed a heart and I had to give it to you because I am an orphan there is no one behind me but you have your parents. Have a life buddy and don't worry our friendship is forever as my heart will always be beating with you.

Love you

Your friend Preyansh

(Some people think that blood relation are the ones we get forever but friendship is such a relation which is not by birth nor by blood but it stays forever until we die and even after)

RE-ENTRY

You're going home, says the girl,
So kiss me goodbye.

I tell her this kiss is special-
It has crawled out into the night
From a cheap iron trunk rusting
In a cobwebbed attic corner
With storybooks and the rest
Of my childhood.
I remember my sister ruffling my hair;
How in bed after dad turned out the lights,
She told me made-up funnies about
Laurel and Hardy;
How quarrels led to violent exchanges
Of words, pillows, and slippers;
How I screamed
At mother trying to talk me into
Unlocking the bathroom door,
"Where you gonna find her a husband?"
I dread the return to childhood;
The opening of channels that have
contracted

Into narrow veins; the rediscovery of
home;

The smelling of ghosts in familiar rooms
With unfamiliar arrangements;
The finding of the cleaned-out attic;
The hovering above my head of the
future.

REFERENCE

Written by Krishna Tateneni. Presented in international competition.

NEW YORK TIMES

Every morning I scurry
Through the streets of New York,
Turn around the avenue,
Pass the red and white awning of
the Jewish deli,
Walk out with a bagel or croissant
or spilled coffee,
Disappearing underground
Speeding in a subway of mute faces,
Barely bitten the bagel,
Barely unfolded The Times, barely
awake.
Before I realize, it's lunch-time,
And then late evening,
Being herded home with the flow of
humankind,
Up and down elevators, escalators,
staircases, and ramps.

I'm back on the street again, late
night,
Though early enough to glance at
next morning's paper.
In this city,
I count the passage of time only by
weekends
Finked by five-day flashes I don't
even remember.
In this city where walking means
running,
Driving means speeding,
There seem to exist many days in
one,
An ironical and oblique efficiency.
But somewhere, somehow, time
takes its toll,
Overburdened, over utilized, and
malnourished,
As the tunnels seeping under the
river's belly slowly cave in,
The girders lose their tension like
old dentures, and
The underground rattles with the
Passing of every train. After all,
How long can one stretch time?
Illusions can lengthen, credit ratings
strengthen,
Even Manhattan elongates with
every land-fill,

But not time,
It takes its own sweet time the way
It always has and always will,
Not a second more, not a second
less.

REFERENCE

Written by Sudeep Sen. Presented in
international competition.

**To promote universal
brotherhood, peace and harmony
through poetry.**

Success is wrought
By closing our eyes
World does not become dark
By running away
Problems do not cease to exist
By refusing to change
Changing world cannot be stopped
by laying the foundation stone
Projects cannot be completed
By day dreaming along
One's goal cannot be reached
By wishful thinking alone
One's objectives cannot be achieved
Sure success is wrought
Through our efforts and His grace!
Realize reality, respond to needs
Taste success with peace and ease!

REFERENCE

Young India who launched the new website for young generation.

HINDI POEM:

वह चिड़िया जो-

चांच मारकर

दूध-भरे जुंडी के दाने

रूचि से रस से खा लेती है

वह छोटी संतोषी चिड़िया

नील पंखो वाली मैं हूँ

मुझे अन्न से बहुत प्यार है ।

वह चिड़िया जो-

कंठ खोलकर

बूढ़े वन-बाबा की खातिर

रस उंडेलकर गा लेती है

वह छोटी मुह बोली चिड़िया

नीले पंखोवाली मैं हूँ

मुझे विजन से बहुत प्यार है ।

वह चिड़िया जो-

चांच मारकर

चढ़ी नदी का दिल टटोलकर

जल का मोती ले जाती है

वह छोटी गरबीली चिड़िया

नीले पंखोवाली मैं हूँ

मुझे नदी से बहुत प्यार है ।

MORAL STORY:

Five wise men got lost in the forest.

The first one said: I will go the left my intuition tells me that.

The second one said: I will go the right because "the right" comes from the word "rightness".

The third one said: I will go back we came from there, it means I will go out from the forest.

The fourth one said: I will go straight we should move forward, the forest will end and something new will open.

The fifth said: You are all wrong. There is a better solution. Wait for me.

He found the tallest tree and climbed into it. While he was climbing everyone else scattered towards their own sides. From above he saw where they should go to leave the forest faster. Now he could

even see in what order the other wise men will reach the end of the forest. He understood the problem and found the best solution! He knew that he did everything right. And the others were wrong. They were stubborn and they didn't listen to him. He was the real Wise Man!

But he was wrong. Everyone was right. The one who went to the left, found himself in the thicket. He had to starve and fight with Wild animals. But he learned how to survive in the forest; he became a part of the forest and could teach others the same.

The one, who went to the right, met thieves. They took everything from him and made him steal with them. But after some time, he had woken up something in those thieves that they have forgotten -humanity and compassion. The remorse was so strong in some of them, that after his death they also became the wise men. The one, who went back, made a pathway through the forest, which soon became a road for those who wanted to walk in the forest without being afraid of getting lost.

The one, who went straight, became a pioneer. He visited the places where no one else was and opened wonderful new possibilities for people, amazing healing plants and magnificent animals. The one, who climbed into the tree, became a specialist of finding short ways. People turned to him when they wanted to find the fastest way to

deal with their problems, even if it didn't lead to any development.

This is how the five wise men reached their destiny.

REFERENCES

A collection of Moral stories (www.inspirationalstories.com)

Written by Chetan Bhagat in his FB Post:

One night, just before the shopkeeper was about to close the shop, a dog came into the shop. There was a bag in its mouth. The bag had a list of items to be bought and money.

The shopkeeper took the money and kept the items in the bag. Immediately, the dog picked up the bag of items and left. The shopkeeper was surprised and went behind the dog to see who the owner was. The dog waited at the bus stop.

After sometime, a bus came and the dog got into the bus. As soon as the conductor came, it moved forward to show his neck belt which had money and the address as well. The conductor took the money and put the ticket in his neck belt again. When it reached the destination, the dog went to the front and wagged his tail indicating that he wanted to get down.

The moment the bus stopped, it got down. The shopkeeper was still following it. The dog knocked on the door of a house with its legs. Its owner came from inside and beat it with a stick. The shocked

shopkeeper asked him "why are you beating the dog?", to which the owner replied, "he disturbed my sleep. It could have taken the keys with it."

This is the truth of life. There is no end to the expectations people have from you. The moment you go wrong, they start pointing at our mistakes. All the good done in the past is forgotten. Any small mistake committed then gets magnified. This is the nature of this material world!!!

BOOK REVIEW:

"CONNECT THE DOTS"

[MANSI P. KASUNDRA, ENVIRONMENTAL SCIENCE AND TECHNOLOGY 4TH SEM]

"CONNECT THE DOTS" is a book written by Rashmi Bansal (entrepreneur, writer, blogger all rolled into one). It tells the stories of courage, determination and inspiration of 20 people from different backgrounds who chose to become entrepreneurs without doing an MBA.

The book is divided in small chapters, each with the epic and small introduction of the entrepreneur and then the success story written in a simple narrative, which is an interesting read. It is a good motivational tool for all those

who are looking for something different, and are really not happy with what are doing. But they are not sure, wither risk is worth taking or how to do it. This book simply gives you 20 odd examples of people who did it. At the end of every story there is a small advice or a jist of book if someone thinks to do something what they already did, and copy paste the effort, I don't know how successful he might be, but if he seeks an inspiration to work on his own dream, then this book definitely is a motivator and helps you to take the first step.

Different entrepreneurs share the small things that made all the difference, whether it was costing, marketing, value of visibility, dignity of labor or market need. You can name it vision, idea, logic or simply luck, but these people born between 1960 to 1984 did dare to do something different.

Rashmi Bansal has written the stories of each entrepreneurs. Few pages on what they two of the greatest learnings from the book are (1) it isn't necessary to do an MBA to become an entrepreneur because academic qualifications shouldn't decide person's future and career.

(2) The entrepreneurs today are in hurry to make as much money as possible as fast as they can. In any new project the first few years are

really challenging and one should be ready for that.

All in all, this book is highly recommended for anyone who wants to know how success can be achieved all odds in this country

Did, how they did and the difficulties they faced and ending up with a small advice given by each of entrepreneurs. The interesting part of the book is the three sections: Junoon (Those who are driven by ideas well ahead of their times), Jugaad (Those who don't have any formal training in business), Zubaan (The creative minds).

The book is really own of the most inspiring books of recent times. Be it Prem Ganapathy of Dosa Plaza who rose from being a dishwasher to head a 150 add employee company with 26 outlets in India and 3 in New Zealand or kalyan Varma who left his high fly job in Yahoo to become a wildlife photographer or Suresh Kamath who started laser soft Info systems which is an IT company with a difference, each of the stories are amazingly inspirational.

MOVIE REVIEW:

MIRACLE(2004)

[TEAM KATHAN]

Sports, irrespective of any game, always aspires to motivate, entertain and engage people. But sometimes, there are moments which aspire to such level that one may call them miracle.

The movie which we are going to discuss today is actually based on one such match in Ice Hockey. This game was played during Winter Olympics 1980 organized in USA. The major portion of movie focuses on what went on to be known as 'Miracle on Ice'.

To understand the significance of the movie, one needs to have the background of the event. To start with, the game was part of Winter Olympics, 1980. This was the period of Cold War. The world was standing motionlessly as the two super powers were going nick to nick and nobody knew what the future was.

On Ice Skating side, USSR team had won Gold Medal consecutively for times starting 1964. Their players were veterans and had plenty of international experience of playing Ice Hockey. USA team was relatively inexperienced. Out of 20 players selected for Olympics, only one

player had previously played at that level.

To give fair idea, we can say that before the beginning of Olympics, chances of USA winning was as much as the chance given to India winning world cup of 1983 at the beginning of tournament.

To having given the general background, let us focus on movie. The movie begins with the interview of University of Minnesota head coach Herb Brooks interviewing United States Olympic Committee for the National team coach's job. He proposes his philosophy about defeating USSR team and his ideas about changes in training and strategy.

The movie then showcases how he selects players, and forges the team spirit. The particular noteworthy scene of making them train on ice till they realize that they are playing for National team and they have to stop thinking in terms of their previous individual club identities.

Slowly and slowly the bonding of the group increases and they begin to realize their potential.

As the games start, they start winning and ultimately reach the semifinal and have to face USSR. They had previously lost 10-3 to USSR in the exhibition match played prior to Olympics.

USSR were heavy favorites and it was assumed that they would win Gold medal for 5th consecutive time. The game starts and USSR quickly score goal. The game progresses, and finally USA are 4-3. In the last ten minutes, USA team becomes defensive and manages to ward off USSR from scoring.

Then comes the most beautiful scene which summarizes the movie in perfect way. As the team proudly celebrates on the ice with the roaring crowd, an obviously emotional, shaken and proud Herb leaves the rink to an empty corridor to have a few seconds of quiet with himself, taking in what he and the team have just accomplished. The coach had planned for this months, he is often questioned about his methods, and most importantly he had dreamed something that no one was even ready to think possible. Here he was, and his team had accomplished something unforgettable, something impossible or rather as the name of the movie suggests: The Miracle.

There are many lessons which one can take away from the movie. The lessons are not just restricted to sports, or even to individuals but rather we can extend those lessons to companies too. Some of the lessons are as given below:

- 1) To accomplish something big, we need *team work*. When everybody contributes, even impossible looking things can be conquered.
- 2) *Think out of box*. Many times we become too conventional to even try something new. But sometimes you have to think different. The way Coach trains and develops the team is completely different from what others would or rather were doing. His methods ultimately developed them which made the impossible dream possible.
- 3) *Believe in your dream*. At the time of interview, Coach Herbs talks about defeating USSR team. In terms of states, USSR had 27-1-1 (wins-losses-ties) numbers; just one defeat in last 4 Olympics. This belief drives him and makes him focus and ultimately helps him to achieve it.
- 4) *There is no substitute for hard work*. The hard work done by the team and pain taken by Coach and his supporting staff was the back bone of the result.
- 5) *Nothing is impossible*. Most of the times, when we want to achieve something, there will be people who would be

saying that it is impossible. At such times, it is important to focus on our work and keep on doing what we intend to do, and don't lose belief as everything is possible.

Miracle is definitely one of those movies which one must watch. It inspires us and makes us believe that we can achieve anything if we are prepared to put in efforts and have self-belief. We hope you do get a chance to watch the movie, enjoy it and get inspired to achieve your dream.

Crunchy Tale

Tolstoy was a great pacifist and was once lecturing on the need to be nonresistant and nonviolent towards all creatures. Someone in the audience responded by asking what should be done if one was attacked in the woods by a tiger. Tolstoy responded, "Do the best you can. It doesn't happen very often."

OMNISCIENT (OFFBIT FACTS)

[VIKAS THAKUR, ME 8TH SEM
STUDENT]

1. A floating post office

India has the largest postal network in the world with over 1, 55,015 post offices. A single post office on an average serves a population of 7,175 people. The floating post office in Dal Lake, Srinagar, was inaugurated in August 2011.

2. Kumbh-Mela gathering visible from space

The 2011 Kumbh-Mela was the largest gathering of people with over 75 million pilgrims. The gathering was so huge that the crowd was visible from space.

3. The wettest inhabited place in the world

Mawsynram, a village on the Khasi Hills, Meghalaya, receives the highest recorded average rainfall in the world. Cherrapunji, also a part of Meghalaya, holds the record for the most rainfall in the calendar year of 1861.

4. Bandra Worli Sea-link has steel wires equal to the earth's circumference

It took a total of 2,57,00,000 man hours for completion and also weighs as much as 50,000 African elephants. A true engineering and architectural marvel.

5. The highest cricket ground in the world

At an altitude of 2,444 meters, the Chail Cricket Ground in Chail, Himachal Pradesh, is the highest in the world. It was built in 1893 and is a part of the Chail Military School.

6. Shampooing is an Indian concept

Shampoo was invented in India, not the commercial liquid ones but the method by use of herbs. The word 'shampoo' itself has been derived from the Sanskrit word *champu*, which means to massage.

7. The Indian national Kabaddi team has won all World Cups

India has won all 5 men's Kabaddi World Cups held till now and have been undefeated throughout these tournaments. The Indian women's team has also won all Kabaddi World Cups held till date.

8. Water on the moon was discovered by India

In September 2009, India's ISRO Chandrayaan- 1 using its Moon Mineralogy Mapper detected water on the moon for the first time.

9. Science day in Switzerland is dedicated to Ex-Indian President, APJ Abdul Kalam

The father of India's missile programme had visited Switzerland back in 2006. Upon his arrival, Switzerland declared May 26th as Science Day.

10. India's first President only took 50% of his salary

When Dr Rajendra Prasad was appointed the President of India, he only took 50% of his salary, claiming he did not require more than that. Towards the end of his 12-year tenure he only took 25% of his salary. The salary of the President was Rs 10,000 back then.

Source: iloveindia

11. The first rocket in India was transported on a cycle

The first rocket was so light and small that it was transported on a bicycle to the Thumba Launching Station in Thiruvananthapuram, Kerala.

12. India has a spa just for elephants

Elephants receive baths, massages and even food at the Punnathoor Cotta Elephant Yard Rejuvenation Centre in Kerala. Now that's a BIG step for the country.

13. India is the world's second-largest English speaking country

India is second only to the USA when it comes to speaking English with around 125 million people speaking the language, which is only 10% of our population. This is expected to grow by quite a margin in the coming years.

14. Largest number of vegetarians in the world

Be it because of religious reasons or personal choices or both, around 20-40% of Indians are vegetarians, making it the largest vegetarian-friendly country in the world.

15. The world's largest producer of milk

India recently overtook the European Union with production reaching over 132.4m tonnes in 2014.

16. The first country to consume sugar

India was the first country to develop extraction and purifying techniques of sugar. Many visitors from abroad learnt the refining and cultivation of sugar from us.

17. The human calculator

Shakuntla Devi was given this title after she demonstrated the calculation of two 13 digit numbers: 7,686,369,774,870 × 2,465,099,745,779 which were picked at random. She answered correctly within 28 seconds.

18. Rabindranath Tagore also wrote the national anthem for Bangladesh

Rabindranath Tagore is credited not only for writing the Indian national anthem, *JanaGanaMana*, but the Bangladeshi national anthem, *Amar Sonar Bangla*, as well. He was also offered knighthood by the British but refused the honour after the JalianwalaBagh massacre.

19. Dhyan Chand was offered German citizenship

After defeating Germany 8-1 in the 1936 Berlin Olympics, Major Dhyan Chand, the wizard of hockey, was

summoned by Hitler. He was promised German citizenship, a high post in the German military and the chance to play for the German national side. Dhyan Chand however declined the offer.

Source: Wikipedia

20. Freddie Mercury and Ben Kingsley are both of Indian descent

Freddie Mercury, the legendary singer of the rock band 'Queen' was born a Parsi with the name FarrokhBulsara while the famous Oscar winning Hollywood star Ben Kingsley was born Krishna Bhanji.

21. Astronaut Rakesh Sharma said India looks *saarejahaan se achcha* from space

Former Prime Minister Indira Gandhi asked the first Indian in space, Rakesh Sharma, about how India looked from space. His response was our famous patriotic song, "SaareJahaan Se Achcha."

22. Havell's is purely an Indian brand & named after its first owner

Though the company was bought for just 10 lakh Rupees a long time ago and is now a multi-billion electrical goods company, it's an Indian company and is still named after its original owner, Haveli Ram Gupta.

23. Diamonds were first mined in India

Initially, diamonds were only found in the alluvial deposits in Guntur and Krishna District of the Krishna River Delta. Until diamonds were found in Brazil during the 18th century, India led the world in diamond production.

Source: Indiaspend

24. A special polling station is set up for a lone voter in the middle of Gir Forest

MahantBharatdasDarshandas has been voting since 2004 and during every election since then, a special polling booth is set up exclusively for him as he is the only voter from Banej in Gir forest.

25. Snakes and Ladders originated in India

Earlier known as Moksha Patamu, the game was initially invented as a moral lesson about *karma* to be taught to children. It was later commercialized and has become one of the most popular board games in the world.

REFERENCE

<https://www.scoopwhoop.com/inothernews/interesting-india/#.6jxvdx02r>

Crunchy Tale

Roosevelt was often bored by the tedious small talk that was required of him at social functions. He often felt as if those with whom he conversed were seldom paying attention to what was said. To prove his point, sometimes Roosevelt would begin a conversation by saying, "I murdered my grandmother this morning." Often these words were met with polite approval. On one occasion, however, an attentive listener gave the witty reply, "I'm sure she had it coming to her."

OPUS (NOVEL)

FOUR DREAMERS

[AMIT GALPHADE, MECHANICAL
DEPARTMENT]

PROLOGUE

YEAR 263, Age of Mountain

(1)

The camp was set up on the bank of Misty Brook. The symbol of the house of Feng was visible on the flag which was flying high on the tent of leader of Fengs. Inside Izel, the leader of Feng sat on the throne. His looks did not convey the anxiety of his heart. His face looked as if it was carved of stone; cold stone. But his heart was complete different matter. It was raging with the anxiousness. This was crucial day. He thought that this may be the most important day, not just for him but for all those on the Vasudha. This could be the turning moment in the history. All the Fengs had worked hard for this. But so had others. It had been great sacrifice from the all but still they needed support.

As he was thinking the plan over, Hunaphu, his personal guard came in and stood silently waiting for his permission to speak.

“Yes, tell me. Has he arrived?” Izel asked trying to keep his anxiety out of his voice. He thought he did it well.

“Yes sire. The messenger has arrived and has said that they all are coming.” Guard replied. But he could not keep his excitement down and added “Sire he said something more.”

“What is it?” Izel asked.

“They are also with them.” Guard replied. He knew that this would change the complexity of the war and waited for the reaction of his master.

“They? Whom do you mean?” Izel asked.

“They, sire, they, whom we all have been waiting for. This would be day to remember sire.”

“Focus on your work and don’t think too far ahead. Now go and alert others. Ask your troop leader to prepare horses. We must welcome them. Go hurry.” Izel replied keeping his voice as calm as possible. He, however, knew things had now changed and changed in the most unexpected way. “Oh the Giver, please grant your blessings”, he muttered and rushed to welcome the party.

(2)

Xexthor was pacing to and fro. His every step would have sounded like thunder to all the other people. But to his people, he was just one of them. Being king always had some

perks but he knew he had earned his right to rule them. He was the strongest and mightiest of them and he had always won the duel whenever he was challenged. But he was growing old. He hated it, but he knew he had to stay alert. Enemies were not always from outside, his father used to tell him, they are sometimes right in front of you waiting for you to lay your guard down and how right he had been. Who would have thought mighty Blotthor would be slain by his own brother Jattor but then what was new to this, he thought.

Years had passed and he had revenged his father. Deep inside he knew that Jattor was far better king than his father or even him but the thought of revenge had changed his heart and now he had turned so far away from light that he never even blinked while killing his own friends whom he deemed to be enemies. They were quite in number and he had always to look out.

He was proud that his son Xexkaros was not a weakling and was strong enough to keep together what he had gathered over the years, if anything happened to him. But why was he late? Karos, as he liked to call him, was rarely punctual but this was late even by his standard. Gabose, his wife, understood his anxiety and told him not to worry. Xexthor was amused to hear this but knew that his wife was more worried than him. He was about to reply when guard came in and informed that his son had arrived.

Xexthor was relieved and could see the tension lift from the face of his wife. Karos came in and sat in front of Xexthor. He looked tired but he was as alert as always. His handsome face reminded Xexthor of his father.

“Greetings father and mother. Let sun always shine on your head. Our quest has been successful. I have laid waste the villages on their side. We have lost none of our soldiers. Enemy has suffered greatly. I don’t think the enemy will be able to regroup quickly after this.” Karos completed his report and saw expectantly towards his father. He was proud of what he had achieved but deep in his heart he knew that his father would never be satisfied with what he had achieved.

“Ok son. Good job. But do not become complacent. When your grandfather had become complacent, his own brother killed him. That’s the kind of family we belong to. Our people do not hesitate to kill our own. We need to keep them engaged in wars so that they find other people as their target and not us. Fengs have regrouped and are preparing for war. My grandfather had almost destroyed them long back but they have arisen from the ashes. We need to put an end to this. We rule Vasudha and we need to make sure we continue it. Prepare your forces. This is going to be long and exhausting. I am expecting the update from our scout.” Xexthor replied.

As they were speaking, the guard standing outside came in and reported the arrival of scout.

“He has arrived finally. But since he is coming here means that it should be really serious. Let us hear from him” Xexthor said.

“May the king climb and conquer Criveln Summit thousand times” scout said coming in.

The name of scout was Xusar. Like his race, he was tall, bulky and fearsome in nature. Xexthor trusted him more than any other people from his kingdom, even more than his own son. Xusar had been his eyes and ears since the time which Xexthor even didn't remember. Whenever the matter was of utmost importance and stealth and cunningness was needed, he always went to Xusar. Even the current affair was very critical and as always Xexthor had asked his trusted warrior to do the dirty job.

“May it always be so” said Karos “what news do you bring? I presume that you have come here directly from your quest.”

“It is as you have said my sire but before I say anything, I request you both to give me private audience as what I am about say is quite serious and it is better if no other soul hears about it before time” replied Xusar.

Accordingly, all three went in the war room and closed the door.

(3)

Sluvys had been riding Ardin for two days and had taken very little rest. They were flying on the desert past day and half. The sun was scorching and her supply of water was dwindling. She did not know how far the oasis would be. The heat was making her mind go numb. She had never felt this helpless ever in her life. But the situation demanded this from her.

“Why do you have to always muddle in the matter of others?” she heard the voice in her mind. Here he starts again, she thought.

“It is not matter of others, Ardin. You know it very well, don't you?” she replied in her mind.

“Scarlet Tops is far far away from this place, Sluvys. What happens here is none of our concern. These fengs or these Kuis or any other are none of our concern. We have always focussed on learning and nothing else.” She heard Ardin's voice in her mind.

“Do you really think so? What use is learning if it is not to be applied for the benefit of others? And most importantly I do not see this matter of someone else. It is our matter only.” She replied angrily and loudly.

“Yeah right. Our matter your say.” Ardin replied sarcastically. “I hope your sister had been with us all this time. She would have put some sense in you. Why did she had to go

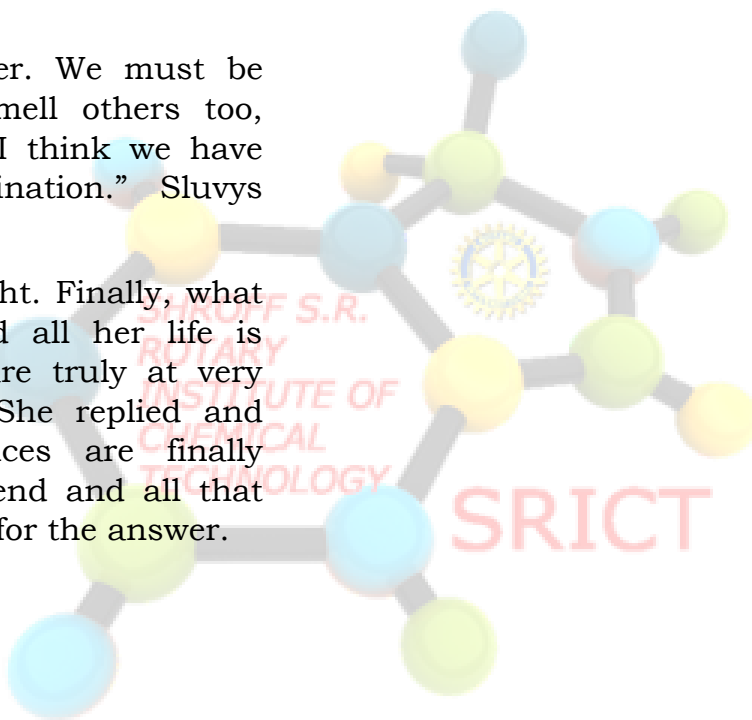
Vybith mountains at this time only” he sighed.

“I think you are getting old, Ardin. You forget that we left because of my sister’s message only. It is on her request only that we have left the comfort of our study room.” Sluvys replied.

The dragon became quite and continued to fly. After some time, the waft of fresh water reached nostrils of Ardin.

“I smell fresh water. We must be nearing. Now, I smell others too, and lots of them. I think we have reached our destination.” Sluvys heard him say.

“I think you are right. Finally, what my sister has said all her life is coming true. We are truly at very critical juncture.” She replied and continued “the dices are finally rolling my dear friend and all that we could do is wait for the answer.



NOBLE NOBELS



Name: Bengt Holmstrom

Born: 18 April 1949, Helsinki, Finland

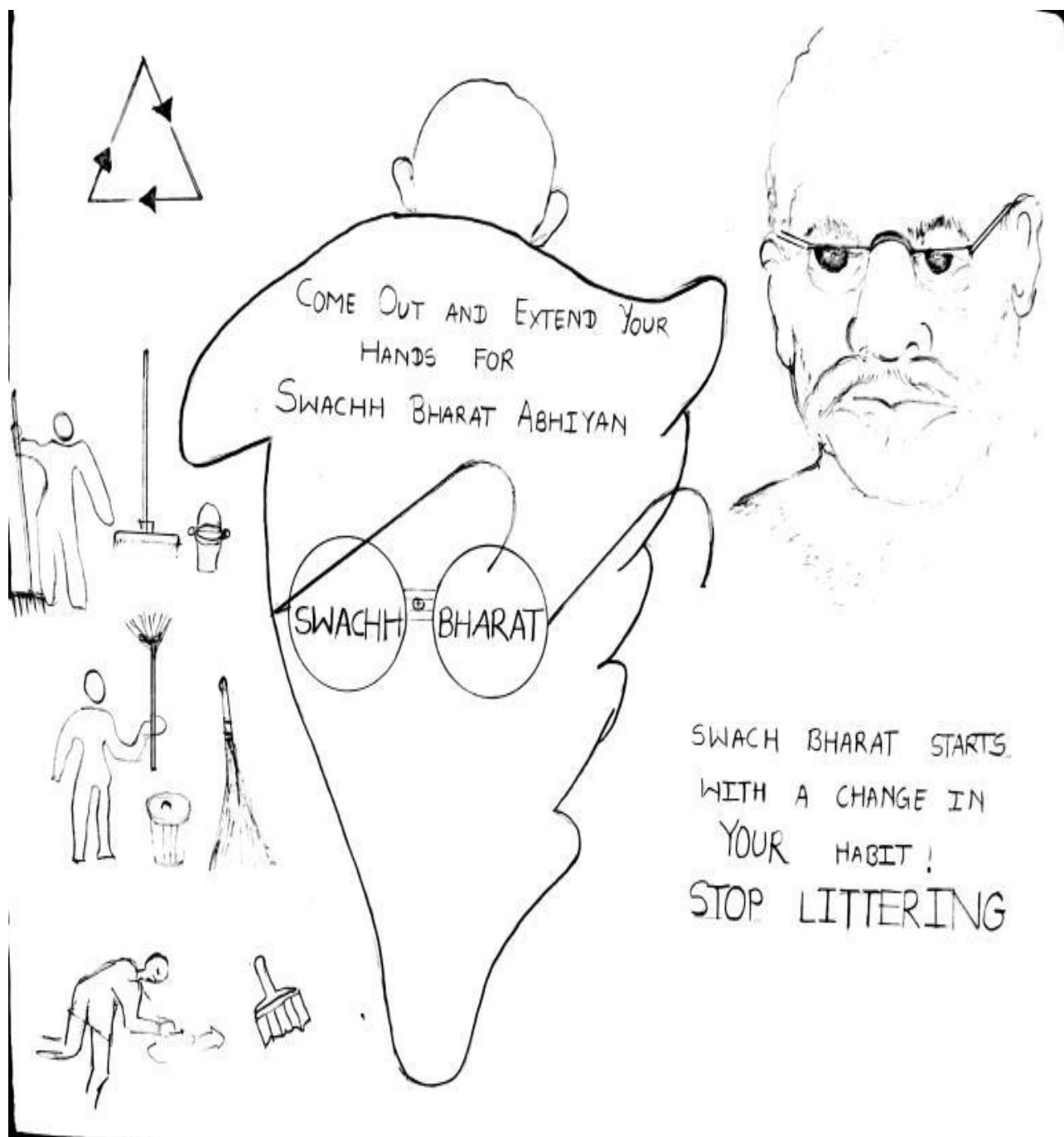
Affiliation at the time of the award: Massachusetts Institute of Technology (MIT), Cambridge, MA, USA

Prize motivation: "for their contributions to contract theory"

Field: Economics and Science

Work: Contract theory provides us with a general means of understanding contract design. One of the theory's goals is to explain why contracts have various forms and designs. Another goal is to help us work out how to draw up better contracts, thereby shaping better institutions in society. The contributions of this year's laureates, Oliver Hart and Bengt Holmstrom, are invaluable in helping us understand real-life contracts and institutions, as well as the potential pitfalls when designing new contracts.

ART CORNER : चित्र-लेख



KNOW OUR FACULTY: गुरुं - विज्ञानियात्



Name: Mr. Amit Galphade

Designation: Assistant Professor

Department: Mechanical Engineering

Educational Qualifications:

B.E. (Mechanical Engineering)

M.B.A. (IT Business Management)

M.E. (Design Engineering)

Experience: 8 Years 10 Months

Research Interest:

Mechanical Vibrations

Tribology



Name: Ms. Anjali S Nair

Designation: Assistant Professor

Department: Environmental Science And Technology

Educational Qualifications: B.E (Environmental Engineering), M.E (Environmental Engineering)

Experience: 9 Months

Research Interest: Solid And Hazardous Waste Management, Water And Wastewater Treatment, Environmental Monitoring, Green Productivity, Unit Operations Of Treatment Plant.

Academic Interest: Wastewater Treatment Systems, Waste Management, Design Of Treatment Plants, Unit Operations, Environmental Studies.

Publications: National Journals: 1

Presented Papers:

National Conference: 1

KNOW OUR STAFF: सहकार्यकर्ताम्जानियात



NAME: Miss Upasana Vanath

DESIGNATION: Lab assistant

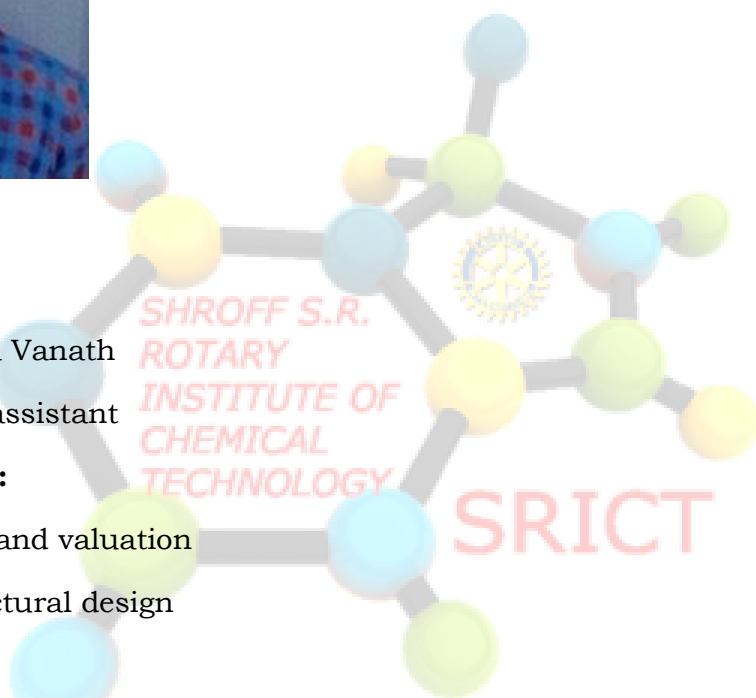
AREA OF INTEREST:

Professional practice and valuation

Surveying and Structural design

HOBBIES:

Reading, Travelling, Listing music

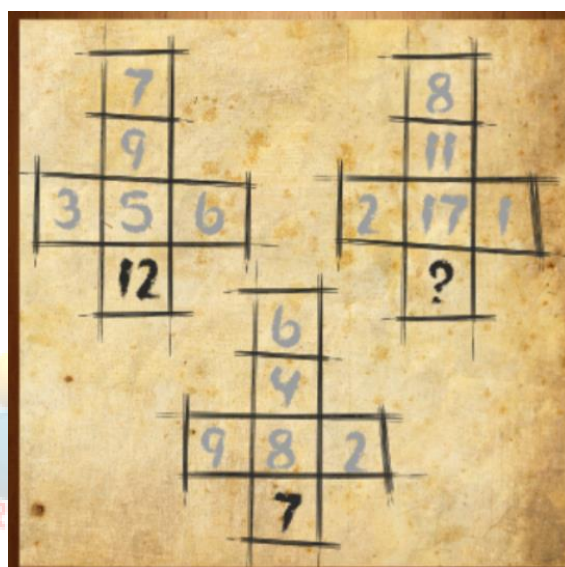


PUZZLE & BRAIN STORMING

Brain storming:-

- 1) I am the beginning of the end, and the end of time and space. I am essential to creation, and I surround every place. What am I ?
- 2) What gets broken without being held?
- 3) What occurs in every minute, twice in every moments, yet never in a thousand years ?
- 4) Two teachers teach at the same school. One is the father of the pther's son. What relation are they to each other ?
- 5) I bind it and it walks. I loose it and it stops.

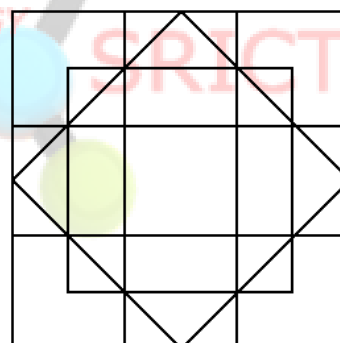
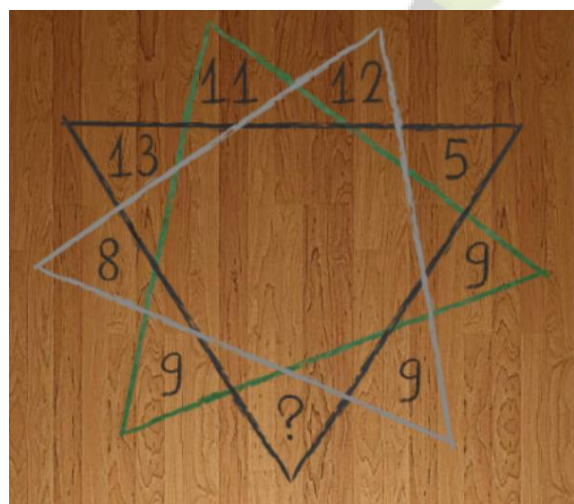
2)



3)

Puzzles:-

1)



One outside square

Four squares comprising a diagonal consisting of the centre grid square and one centre corner square

Nine grid squares

Four centre corner squares

One square rhombus

Five squares each comprising four "grid squares"
(One at each corner plus one in the middle)

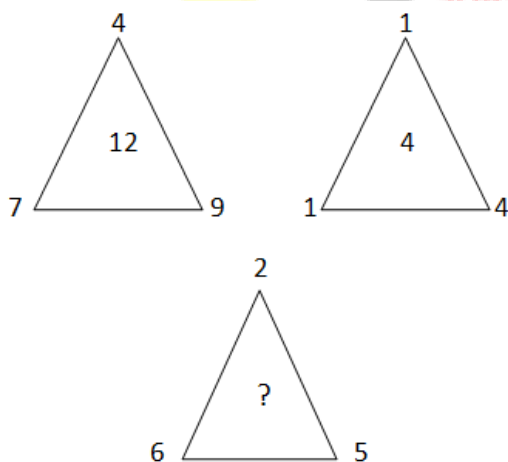
4)

What numbers comes in fill in the blanks

4 3 2
 5 3 5 1 1
 6 1 2 8 3 3 1
 7 2 8 4 3
 9 - 3

5)

Which number replaces the question mark?



6)

Ganpat is found dead in his office desk. Sherlock Holmes was working on this case and have narrowed the suspect down to three people.

1. His friend Mr. Rakesh Gupta

2. Ganapat's wife "Bhawna"
3. His secretary "Jason Kumar"

All three suspect visited Ganpat on the day of his various reason as they told to Sherlock. As we know when police fails, Sherlock comes.

He was able to find a note at the corner of wall "7B91011" was written on it. Sherlock waste no time in announcing the killer. Who was the killer?

7)

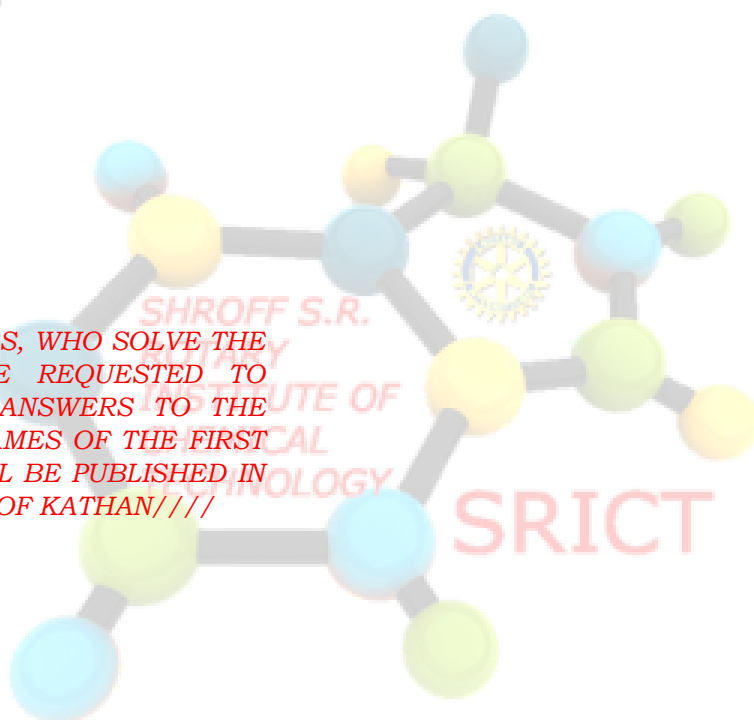
	6								
9						4	2		
3					6				
					4	1		5	
					6			2	
2	3	7						8	
					5				
			1			3	7		
		4		8	7				

8)

Which letter replaces the question mark?



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



☺ JOKES ☺

JIB: Job Interview Breakdown

Have you ever been a victim of a JIB (job interview breakdown)? These men and women have:

- “I was so nervous at a job interview, when he asked me what I wanted to be in five years, I said, ‘Race car driver.’”
- “The guy asked me to tell him a little about myself, and I literally forgot who I was.”
- “I got asked about punctuality. I went on about how it was good to speak clearly and politely, and it was nice to use proper grammar in speech and writing.”

THE POINT OF A CONFERENCE CALL

A conference call is the best way for a dozen people to say “bye” 300 times.

YOUR WORK E-MAIL IS WHAT?

- I’m employed at a computer security company and have a colleague whose name is M. Alware. His e-mail address is malware@company.com.
- My ex-boss’s name is R. Stone. His e-mail was stoner@company.co.in.
- My name is James Pan. Every other permutation of my name was taken (e.g., jpan, jamesp), so I’m stuck with japan@university.edu.

HOW TO TRANSLATE WORK EMAILS

I have a question. = I have 18 questions.

I’ll look into it. = I’ve already forgotten about it.

I tried my best. = I did the bare minimum.

Happy to discuss further. = Don’t ask me about this again.

No worries. = You really messed up this time.

Take care. = This is the last you’ll ever hear from me.

Cheers! = I have no respect for you or myself!

HAVE YOU EVER BEEN INSULTED AND COMPLIMENTED AT THE SAME TIME?

It’s amazing how a person can compliment and insult you at the same time. Recently, when I greeted my coworker, she said, “You look so gorgeous, I didn’t recognize you.”

A BUSINESSMAN ON PERFECTION...

The closest a person ever comes to perfection is when he fills out a job application form.

MY KIDS DON'T KNOW WHAT I DO

I've been working on my PhD in engineering for the past five years, but my kids don't necessarily see that as work.

As we were driving past Walmart one day, my son spotted a Now Hiring sign and suggested that I could get a job there.

Hoping to make a point, I asked, "Do you think they're looking for an engineer?"

"Oh, sure," he said. "They'll hire anybody."

AN IMPOSSIBLY LONG LEAVE

An insurance agent called our medical office. One of our doctors had filled out a medically necessary leave-of-absence form for a patient, but, the agent said, the patient had altered it. The giveaway? The return-to-work date had been changed to February 30.

WEIRD QUESTIONS LIBRARIANS HEAR...

Before google, there were librarians. Here are some queries posed to the poor, suffering staff of public libraries:

- A woman wanted "inspirational material on grass and lawns."
- "Who built the English Channel?"
- "Is there a full moon every night in Acapulco?"
- "Music suitable for a doll wedding to take place between a Shirley Temple doll and a teddy bear."

- "Can the New York Public Library recommend a good forger?"

A KID WITH A DREAM

For Martin Luther King Day, I asked my fifth graders how they'd make the world a better place. One said, "I'd make potato skins a main dish rather than an appetizer."

5 LIES JOB APPLICANTS TELL

Gilding the lily is a job seeker's birthright. Here are a few doozies, where the applicant claimed ...

... to be a former CEO of the company to which he was applying.

... to be fluent in two languages—one of which was pig Latin.

... to be a Nobel Prize winner.

... to have worked in a jail when he was really in there serving time.

... he was fired "on accident."

AN OCEAN OF DUMB

A man called, furious about an Orlando, Florida, vacation package we had booked for him: He was expecting an ocean-view hotel room. I explained that was not possible, since Orlando is in the middle of the state. "Don't lie to me," he said. "I looked on the map, and Florida is a very thin state."

(Source: Readers Digest)

NEWS-NATIONAL & INTERNATIONAL

“NATIONAL NEWS”

- India is set to open its first ever aviation park in Gujarat which will include an airstrip, training school, helipad and space for setting up small manufacturing units among others.
- India develops world's first Zika vaccine
- Bharat Biotech, Hyderabad based vaccines and bio-therapeutic manufacturer, claimed to have achieved a breakthrough in developing a vaccine to fight the dreaded mosquito-borne Zika virus, which causes serious birth defects in children.
- Ajmer Dargah blast case: Swami Aseemanand, 5 others are acquitted; 3 found guilty.
- The accused who have been convicted are Devendra Gupta, Bhavesh Gupta, and Sunil Joshi. Senior RSS member IndreshKumar has also been acquitted.
- As per the NIA charge sheet, some fringe Hindu groups were responsible for conducting the blasts. The agency had accused Aseemanand, Devendra Gupta, Chandrashekhar Leve, Mukesh Vasani, Bharat Mohan Rateshwar, Lokesh Sharma, and Harshad Solanki of planting and exploding bombs are murder among other charges.
- Sikkim becomes India's first organic state. Sikkim has become India's first fully organic state by implementing organic practices on around 75000 hectares of agricultural land.
- IIT-M tie up with Nokia for rural net connectivity-The Indian Institute of Technology Madras, has tied up with Nokia for three years to create technology solutions which, in turn, will help enhance broadband connectivity in rural India.

international students [29th Jan 2017]

“INTERNATIONAL NEWS”

[PARTH PRAJAPATI, 3RD
SEMESTER CHEMICAL
ENGINEERING]

1. How toxic water destroyed Pakistan's largest lake [6th Jan 2017]



MANCHAR LAKE, PAKISTAN: For generations the Mohanna tribe have lived, loved, worked, and played on Pakistan L'S Manchar Lake; their floating settlement serving their needs from birth to death.

But an unrelenting flow of toxic wastewater is pouring into the lake. A byproduct of industrialization and aggressive agricultural practices upstream the toxic wastewater has slowly rendered it inhospitable, poisoning the water and almost everything in it.

2. University of Michigan refuses to release immigration status of



University of Michigan defied US President Donald Trump's executive order on Muslim immigrants and refugees+ and refused to release the immigration status information of its international students.

The University's President Mark Schlissel released a statement, on university website, affirming the varsity's commitment to international students and faculty. Trump's executive order bans the immigration and travel of people from many Muslim-majority countries.

3. Sports [12th Feb 2017]



India successfully defended their title in the T20 Blind World Cup on Sunday at M.Chinnaswamy

Stadium in Bangalore by beating arch-rivals Pakistan in the final by nine wickets. Incidentally, in the previous and only edition of the T20 World Cup for the visually impaired, Pakistan had been on the losing end then too.

This is India's second title of the tournament they had defeated the same opponents in 2012.

Batting first, Pakistan put up 197/9 in their allotted 20 overs. The key contribution came from Badar Munir, who scored 57 off 37 balls. He found able support in Muhammad Jamil (24 off 15 balls), and the two knocked a 58-run partnership.

India got off to a rollicking start as Ajay Kumar Reddy and Prakash Jayaramaiah smashed quick runs. The hosts scored at a rate of more than ten runs an over and took control of the game, scoring 109 in 10 overs for no loss. Reddy was run out at 43, and Ketan Patel played a good hand for his 26 before he retired hurt. But the dismissals had minimal effect, with India reaching the target in the 18th over to win the title.

4. Britain appoints first woman Scotland yard chief in 188 years [23rd Feb 2017]



LONDON: Cressida Dick was named the new commissioner of London's Metropolitan Police on Wednesday, the first woman to lead Scotland Yard in its 188-year history.

Dick, a former assistant commissioner of the force, succeeds Bernard Hogan Howe, who is stepping down next week. The Met is Britain's biggest and oldest police force, with 43,000 officers.

5. Taliban leader encourages people to plant trees [26th Feb 2017]



KABUL: Springtime in Afghanistan usually brings a spike in violence as the Taliban takes advantage of the thaw to launch a wave of fresh attacks. But the Taliban's leader has just issued a statement calling on Afghans to plant more trees.

In a public letter issued Sunday in four languages, including English, Mullah Haibatullah Akhundzada said that, "the Mujahedeen and beloved countrymen must join hands in tree planting."

6. Obama will launch his book very soon [13th Mar 2017]



NEW YORK: The publishing of the upcoming books by Barack and Michelle Obama will be a global event.

Penguin Random House announced today that it has lined up publishers from Ireland to South Africa for the two books, to be released by the Crown imprint in the US and Canada. Titles and release dates have not been announced.

7. Scotland demands new independence vote before Brexit [14th Mar 2017]



EDINBURGH: Scottish first minister Nicola Sturgeon on Monday demanded a new independence referendum to be held in late

2018 or early 2019, once the terms of Britain's exit from the European Union have become clearer. A vote that could rip apart the United Kingdom just months before Brexit adds a tumultuous twist and highly uncertain consequences to the two-year process of leaving the EU after more than four decades.

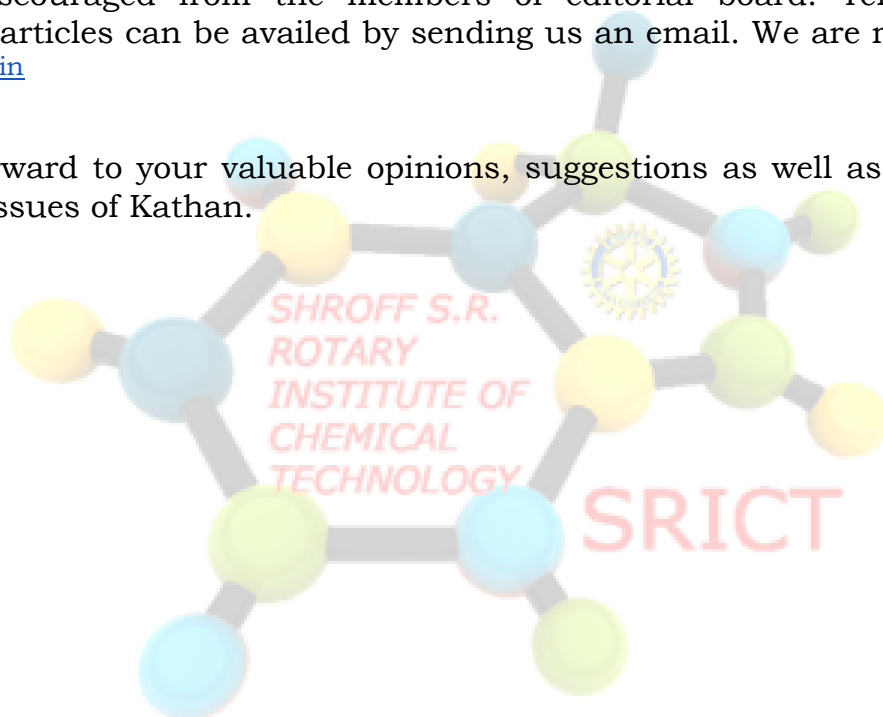
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