



## The 71<sup>st</sup> Independence Day Celebrations

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# Connect 2017 Orientation Program

## The secret to getting ahead is- Getting Started



With the same thought Silver Oak Group of Institutes conducted an orientation program- CONNECT 2017 for the first year students from 31st July to 4th August 2017. The main motive of the program was to connect students with the college environment, academics and most importantly the engineering curriculum.

It was on the very first day, students were benefited by motivational speeches given by the dignitaries, management as well as our principal sir. During these four days of orientation program, the students were involved in various activities such as Advance Explore Engineering, life skills by motivational speakers from Akshaypatra Foundation, discussions and guidelines by industry experts, design engineering and many more.

“Where my reason, imagination or interest were not engaged, I would not or I could not learn”. The same philosophy was adopted by the institute as it strived to provide the perfect environment to the students, who enthusiastically participated in the entire orientation program. The Computer Engineering and IT Department engaged the students in activities like “Learning M.S. Office”, “Know Your Computer” and “Video Making”. While there were other activities like, “SKY SCRAPPER”, “CHUCK EPOXY”, “CARTESIAN DIVER”, “VICIOUS CIRCLE”, “DRIBBLE DRIP DROP” and “KNOBS DECORATION” which were also conducted. In addition to the above, activities like “Water Balloon Drop”, “Heron’s Fountain”, “Boomerang” and “Component Soldering” were also organized by the Mechanical Engineering and Electronics Department.



The inaugural event of the IEEE Student Branch was the most prestigious and proud moment for the Silver Oak Group of Institutes as it became a part of a trusted “voice” for engineering, computing and information technology around the globe. Students of this institute will get exposure to compete globally with international students; this will help them in building an impactful personality. The flagship event was graced by many eminent dignitaries like Dr. Anu Gokhale (25 years of university teaching experience, an active volunteer in IEEE R4-Central USA Educational Activities Chair), Dr. Anil Roy (Senior IEEE Member), Dr. Maniklal Das (Vice Chair, IEEE Gujarat Section), Dr. Anjali Diwan (SAC-Student Activity Chair IEEE Gujarat).

Event:

The “Black Coding” was the first technical event by IEEE SOCET SB. This event was commemorated on 22nd July 2017. It conducted with a vision to part students with a new challenge in their coding skills. An active IEEE Student Branch envisions building a strong professional network for industry-ready skilled engineering students. It also visualizes increasing employability for quality engineers.





# Outcome Based Learning

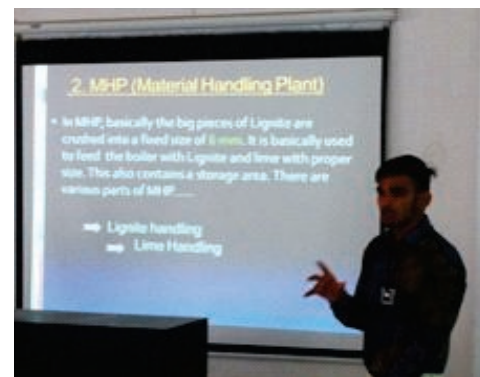
Tell me and I'll forget;  
Show me and I may remember;  
Involve me and I'll understand.

## PRESENTATION ACTIVITY

Active learning is an important criteria of a teaching-learning process. It is where students are engaged in a classroom activity promoting critical engagement with course materials. To encourage this, Electrical Department organized an activity where students were given an opportunity to illustrate their potential. Mr. Manan Pathak, (assistant professor) had organized "PRESENTATION ACTIVITY" to challenge students. It was designed in ways to convert the passive students in active participants.



The objective of this activity was to improve their confidence and eliminate stage fear.



7<sup>th</sup> semester EE students giving a presentation on different topics of Interconnected Power System



Grasp the subject and words will follow





# Plane Table Surveying

In this activity, students were taught how to carry out 'Plane Table Surveying'. It is a graphical method of survey in which the field observations and plotting are done simultaneously. It is simple and cheaper than theodolite survey, most suitable for small scale maps.



What gets measured, gets managed



3<sup>rd</sup> sem CL learning of basic concepts of surveying

One accurate measurement is worth a thousand expert opinions





# Sieve Analysis of Campus Soil

“Sieve Analysis” was commenced for the students of 3rd Semester at Aditya Silver Oak Institute of Technology. Critical importance of sieve analysis in material performance was explained to the students through an activity. A sample of campus soil underwent the sieve analysis. The results were then compared with particle size distribution curve.



Weighing the soil



Getting a mentor is a short cut to success

# Model Making of Crystal Structures

3<sup>rd</sup> Semester Mechanical students had energetically participated in an activity of “Model making of Crystal Structures” conducted during their laboratory session from 3<sup>th</sup> to 6<sup>th</sup> July 2017. Total of 82 students had actively taken part.



3<sup>rd</sup> Sem ME students made the Model of Crystal Structure



3<sup>rd</sup> Sem ME Nayan, Jaiviik, Harsh, Adarsh, Nilesh, Mitesh (L-R)





# Real world Manufacturing Processes

3rd Semester Mechanical students actively participated in a "Workshop Realization" during their laboratory session on 05th to 12th July 2017. It was conducted by Mr. Dhruv Patel, assistant professor of ASOIT.

The objective was to impart knowledge on manufacturing processes, suitable machine to complete the operations and various types of operation on a specific machine as well as general purpose machine.



You never know what you can achieve until you try



Nothing ever becomes real till it's experienced

# Application of Computer Graphics and Graphics Input Devices

NPTEL video lectures were shown to the 5th semester IT students by Prof. Manjula Singh. The lectures were on "Application of Computer Graphics and Graphics Input Devices" with the objective to create familiarity with basic applications and importance of computer graphics.

Prof. Manjula Singh had been a great motivator to the students to adopt the video lecturing method. The students gained knowledge on basic syntax and semantics of programming languages, building symbol tables and generating intermediate code.



@ Video Lecture Presentation



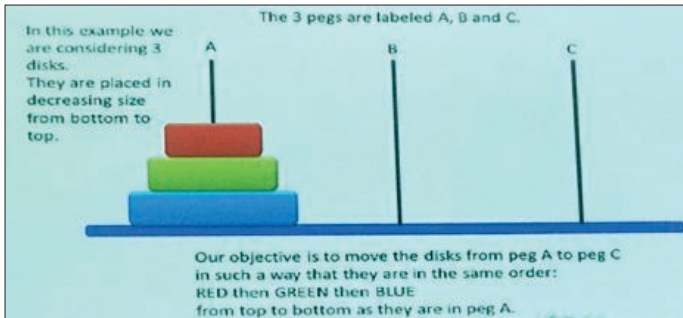
Videos make it interesting!!





# Tower of Hanoi

A lecture was organized by Prof Sagar Patel, Head of Computer Engineering Department on "Tower of Hanoi". It was organised for the 3rd Semester CE students, where they discovered about the basic application of Stack Systems; working of recursion function and real time stack application.



The human spirit must prevail over technology

# Education to Innovation

A two-day workshop was conducted on A-to-Z of Solar Panel which commenced at Aditya Silver Oak Institute of Technology. It aimed to generate students' creativity and make them aware about various concepts. It was attended by students from different departments- Civil, Chemical and Mechanical Engineering.

Basis for global energy crisis scenario were explained

Practical application of Solar Energy, its modules and their characteristics were explained





### Workshop on FEMM Software

In recent era computer technology is a part of our day-to-day lives; personal as well as professional. The students of 7th semester EE grabbed the opportunity to learn about Finite Element Method Magnetics (FEMM) software. Through this workshop they learned to analyze the magnetic and electrical parameters of the equipments. It was conducted by Ms. Darshna Ahir, where total of 38 students took active part.

Different models of permanent magnet and electrical equipments were prepared in the FEMM software



It is not that we use technology, we live technology

### Seminars and Motivational Talk

The Chemical Department invited a guest speaker Dr. Bharat P. Jain, Member Secretary of Gujarat Cleaner Production Centre. He focussed on sharing the importance of cleaner production. Students found the seminar helpful and informative for their coming path.

### Expert Lectures

“An expert is someone who tells you why you can't do something”. With the objective to fulfil this aim the Computer and IT Department invited Dr. Harmik Vaishnav, a renowned professor from PDPU to deliver a talk on “21st century strategies for productivity and time management”. 220 students were benefited by this seminar.



### You will delay, but time will not.

Mr. Sanjay Rawal, another expert believed in provoking our students with the expert deliverance on “Lead by example – ways to be successful leader”. His talk included various examples of successful leaders to motivate the learners’ in a manner which will help them in pursuing successful careers as professionals.



### Faculty Development Programme

“An organization’s ability to Learn & translate that learning into Action rapidly is the ultimate”

Department of Mechanical Engineering arranged an expert talk for the faculties; especially for design field subjects.

The session was chaired by Prof. S B SONI who has more than 40 years of teaching experience, a visiting faculty at Nirma University and Ahmedabad University. He is also a design consultant at Harsha Engineers, Prashant Group of Company, Prasad Group, Synergy Agro Tech Pvt. Ltd and NMTG Mechtrans Pvt. Ltd.



### FDP on CREO

Mechanical Engineering Department of Silver Oak College of Engineering & Technology successfully arranged a Faculty Development Program on 8th of July, 2017 under the title of “PTC CREO”.





# PRARAMBH-2017

“Tell me and I will forget, Show me and I may remember, Involve me and I will understand.”

Students must talk about what they are learning; write about it, relate it to past experiences, and apply it to their daily lives. With this inspiration “Prarambh 2017”, a journey towards engineering (innovative engineering) was launched on 29th June, 2017. It was under the guidance of co-ordinator Prof. Himani Mittal and Prof. Ritika Lohiya. The major objective behind Prarambh was to impart skill based education to develop higher order thinking skills among students. It imparted different scientific and engineering principles through fun and interesting activities, projects, and contests. It was based on the concept of STEM i.e. Science, Technology, Engineering and Mathematics, conducted on campus for 1 month. About 500 students benefited out of it.



Inaugural ceremony of “Prarambh-2017”

Deep Pragatya at “Prarambh-2017” inaugural ceremony



Students making their Gliders

Students learning the concept @ Glidomania

Glidomania students made the gliders and took a flight.

## Magic with Bulbs students made the Tesla Tower and the principles of Tesla coil.



Students making Tesla Tower @ Prarambh-2017

Magic of Tesla Tower





**Start-up Life Cycle** activity aims to instil entrepreneurial mind-set in the students. They learned skills like creative thinking, communication, risk taking and resilience along with design thinking.



Ideation and designing of shoes



Shoes made by students



Ready for the race wearing their own creation



Students presenting their ideas

**Mini Wired Raced Robot** activity was targeted at making the students learn the basics of robotics. Students made a soccer robot and played soccer matches between different teams.



Students making soccer robot



Students with their creation



Soccer war



Prarambh students @ Mini wired raced robot





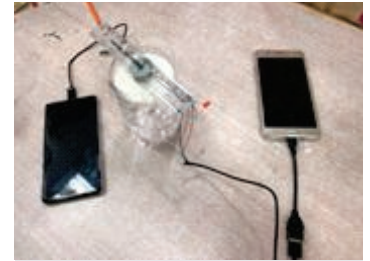
**Mobile Operated Water Air Cooler** involved knowledge of different types of DC motors along with their working principle and practical use of DC motor. End application gave the students an idea related to design engineering and how to design the product for its utility purpose.



Brainstorming



Prof. Jvalant Modi helping in making Air Cooler



Working water air cooler

The **Copenhagen Solar Cooker Light** is a small, compact, inexpensive solar panel cooker made from durable, reflective vinyl covered panels. The students made the solar cooker and practically cooked Maggi in it. They together enjoyed their spicy taste of innovation.



Students making solar cooker



Cooking Maggi using solar energy



Enjoying the taste of Maggi

In **Magic of MAC** activity student learned x-code software and developed their mobile application.



Students in Magic of MAC creating an Iphone application @ Apple Lab

**Practical Machinist** was an activity where students were surprised by instilling knowledge on Axis Understanding, CNC machine operations and simulation.



Prof. Bhavin Chaudhary explains CNC



Students working on the CNC machine





The 3D Hologram model enhanced students' knowledge regarding three dimensioning concept, scientific principle of reflection & projection.



Students making 3D Hologram



3D Hologram made by students

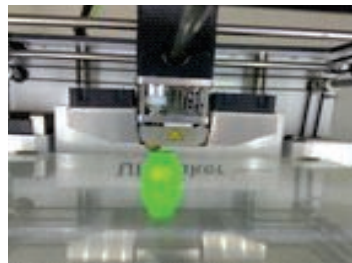


3D Hologram projecting the holographic effect

3D session was basically introducing 3D printer to students. Students prepared a drawing in 3D model format and printed the same 3D printer.



Students with 3D Printer



3D Printing in process

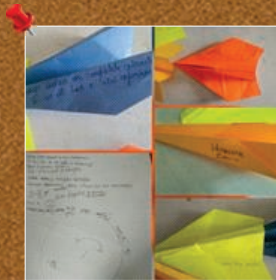


Students with 3D printed objects



Objects made with 3D Printer

# PRARAMBH-2017 Feedback

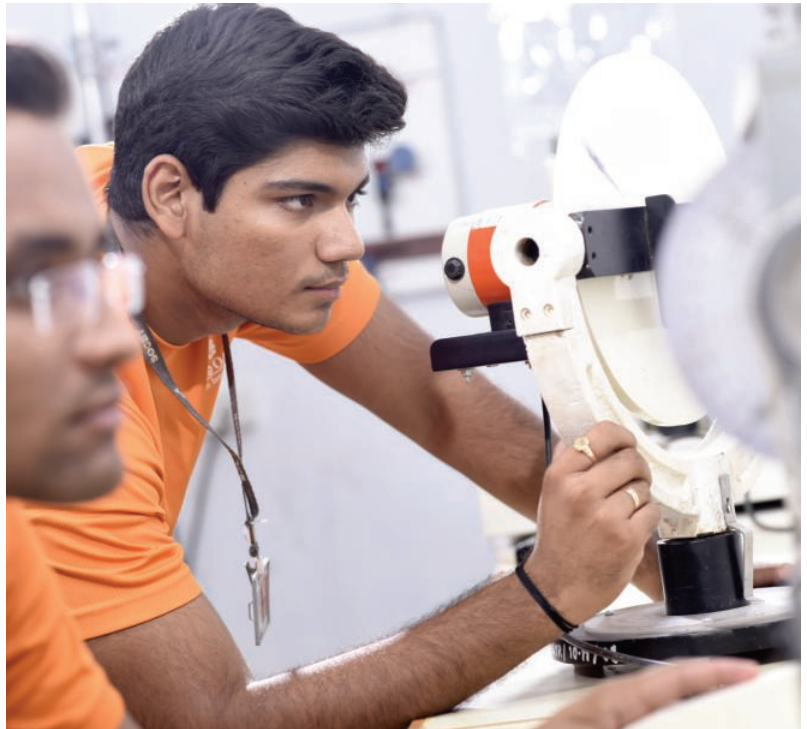




# Explore Engineering

SOGI has been successfully organising the Explore Engineering sessions on its campus since the last 3 years. It is targeted to students who have appeared for 12th science and aspire to build a career in Engineering. They are invited to the Institute, from all over Gujarat and given appropriate guidance through activities conducted by various clubs run by different branches of engineering. This practical approach helps the student to identify their field of interest and select a branch accordingly.

Let's hear –out these students who have positively taken advantage of Explored Engineering initiative:



### Rathod Dhruval:

I enjoyed the Explore Engineering at Silver Oak. There was a lot to learn. The learning can also be used in our daily life too. Faculties have so much of knowledge and through their guidance I could make a right decision. Thanks sir!

### Shah Tirth

It was an amazing experience. It really helped me to select a branch of my interest and thus would help me in achieving my ultimate goal of life.

### Patel Ved

Explore Engineering sessions were really very nice and amazing. All the faculties were too good and were explaining so well through the lab activities.

### Gandhi Jainam

It was an amazing experience at Exploring Engineering sessions at Silver Oak. This was a very different experience of my life and got a chance to learn many things. Thank you so much !

### Kush Shah

The Explore Engineering was just amazing. It had many more things which inspired and motivated us. A cool experience!

## 71<sup>st</sup> INDEPENDENCE DAY CELEBRATION AT SOGI

The 71<sup>st</sup> Independence Day was celebrated in all its solemnity and grandeur at Silver Oak Group of Institutes (SOGI) on 15th August 2017.

The celebration was commenced with the March Past under commander Stavan Bhatt by accompanying the chief guest and guest of honor for the national flag hoisting ceremony. To mark the importance of the occasion, every year a grand parade is held in the college. The flag hosting ceremony was followed by the national anthem and the flag song in the premises by the patriotic and enthusiastic SOGI family members and audience.

The patriotic aura was sustained by the welcome speech given by Shri Janak Khandwala, Executive Director of SOGI. Mr. Niljouy Julius Christian and Mr. Chirnjiv Patel, our esteemed guests also graced the event with short speeches; addressed to the students and faculty members. A great motivational speech was given by our chief guest Major Nitin Joshi. The entire college campus turned reverberated with the rhythmic vocal performances presented by the students.





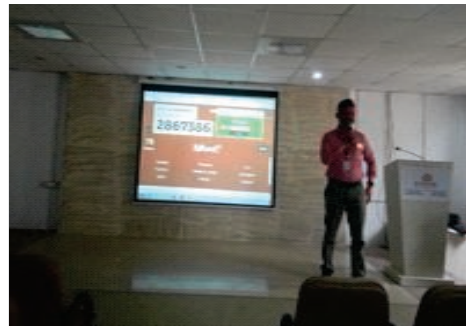
# LEARN with FUN

## KAHOOT- game based learning

To quench the thirst of knowledge among students, learn with fun is the best way. Students feel pressurized when they have to give exam through conventional pattern. And being digital natives, students love to play games. So the new way of giving exam is KAHOOT- game based learning platform. Mr. Raju Chaudhary, assistant professor of EE organized a quiz through KAHOOT- to make examination pattern interesting and stress free. Students of 5<sup>th</sup> semester EE gave an online quiz through KAHOOT in Electrical Power System subject.



Heyy the answer is A



“BE A CHILD IF YOU WANT TO GROW UP”-This rightly applies to the session taken (as a part of subject Power Plant Engineering) by Ms. Satya Shrivastav, assistant professor as she delivered lesson on why should we always be a kid by heart if we want to learn something and grow in life.

An energetic session on drawing a sketch of thermal power plant & combined gas turbine and steam turbine power plant was followed by the activity of “Blind Snakes”

What We Learn with Pleasure,  
We Never Forget.



Students making a sketch of  
a Power Plant





# Linkage- Academia to Corporate

“You need experience to get experience.” This seems to be the biggest issue for young adults transitioning into the workforce these days. Employers in today's industry rely heavily on resumes that illustrate a relevant work history, whether in-forms of internships, volunteer work or actual job experience. For this purpose, students of Aditya Silver Oak Institute of Technology were sent to various organizations as per their branch.

Vanakbori Thermal Power Plant  
Akshay Sabhajani 7th Sem. EE



An Amazing  
Experience ....

Summer internship @Vanakbori @ Thermal Power Plant

AMTECH Electronics, Gandhinagar  
Mehul Modi 7th Sem. EE @ AMTECH



Reliance Retails Ltd. Ahmedabad  
Amit Singh 7th Sem. EE



Implementation of theory knowledge

Nimesh Patel, 7<sup>th</sup> Sem. EE



Learning with friends

Hardik Suthar 7th Sem. EE



With peer Members @ Reliance Retails Ltd.





Asiatic Colour Chem Industries Ltd  
Chirayu Joshi and Jay Patel, 7th Sem.  
Chemical Engineering

IFFCO

RBD Engineers Pvt. Ltd., Ahmedabad  
Desai Sendha S. 7th Sem. ME



Together we learn Together we Grow

JYOTI CNC AUTOMATION LTD  
KALAL PRAVIN VIJAYBHAI 7th Sem ME

Ferromatik Milacron Pvt.Ltd.,  
Ahmedabad  
Panchal Denish K. 7th ME

Yudiz Solutions Pvt Ltd  
Milan Patel, 7th Sem. CE



Horizon Webinfo Pvt. Ltd  
Bhavya Chauhan, 7th Sem. CE



Nisha Patel,  
7th Sem Computer engineering

Banas Dairy:

Banaskantha District Cooperative Milk Producers Union Limited (Banas Dairy),  
Palanpur Dept: Mechanical Engineering



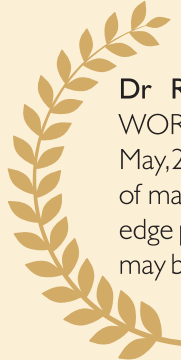


Gujarat State Electricity Corporation Limited (GSECL)  
Dept: Mechanical Engineering

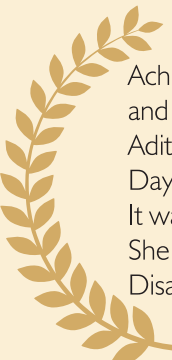


Bhaskaracharya Institute for Space Applications and  
Geo-informatics (BISAG), Gandhinagar  
Dept: Electronics & Communication Engineering

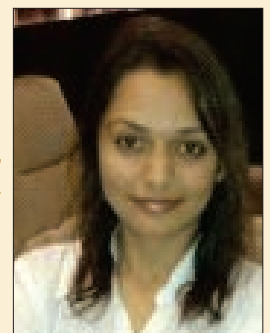
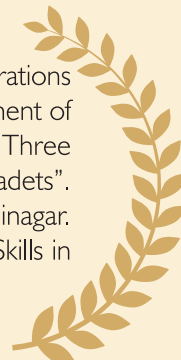
# Faculty Achievement



**Dr Rachna Bhatia**, assistant professor in General Department attended a WORKSHOP ON APPLICATIONS OF MATHEMATICS at IIT Gandhinagar on 16<sup>th</sup> May, 2017. The aim of the workshop was to make audience aware of the applications of mathematics in real life as well as current trends in research. The various cutting edge problems in the fields of engineering and applied sciences were discussed which may be very useful for future research ideas.



Achievement is largely the product of steadily raising one's own level of aspirations and expectations. Ms. Nikita Gadani, assistant professor in General Department of Aditya Silver Oak Institute of Technology was invited as a resource person in a Three Day Orientation Training Program entitled "Disaster Relief Training for NCC Cadets". It was organized by Gujarat Institute of Disaster Management (GIDM) Gandhinagar. She was welcomed to deliver sessions on "Importance of Communication Skills in Disaster Management" on 18th and 29th July 2017.



Mr. Manan Pathak, assistant professor in Electrical Engineering Department at Aditya Silver Oak Institute of Technology was invited as a resource person in a Three Day Orientation Training Program entitled "Disaster Relief Training for NCC Cadets" by the Gujarat Institute of Disaster Management (GIDM) Gandhinagar. He was welcomed to deliver sessions on "Importance of Communication Skills in Disaster Management" on 18th and 29th July 2017.





1. **Name of Faculty:** Mit Patel  
**Title of Paper:** Review on Combustion Optimization Methods in Pulverised Coal Fired Boiler  
**Name of Journal:** International Journal Of Engineering Development & Research

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2. **Name of Faculty:** James Tharayil  
**Title of Paper:** Review on Combustion Optimization Methods in Pulverised Coal Fired Boiler  
**Name of Journal:** International Journal Of Engineering Development & Research

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**Dr. Devang Pandya**  
**Achievement:** Invited for expert talk on  
“AI in Video Summarization” at Nirma University.

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3. **Name of Faculty:** Mr. Mukesh Kumar  
**Title of Paper:** Structural Evolution of low carbon steel by warm rolling & Annealing  
**Name of Journal:** International Journal of Science Technology & Engineering

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4. **Name of Faculty:** Mr. Nikunj Tahilramani  
**Title of Paper:** Information Hiding in Line spectrum pair feature of non-voice part of speech signal  
**Name of Journal:** IEEE international conference on Smart Technologies for smart Nation

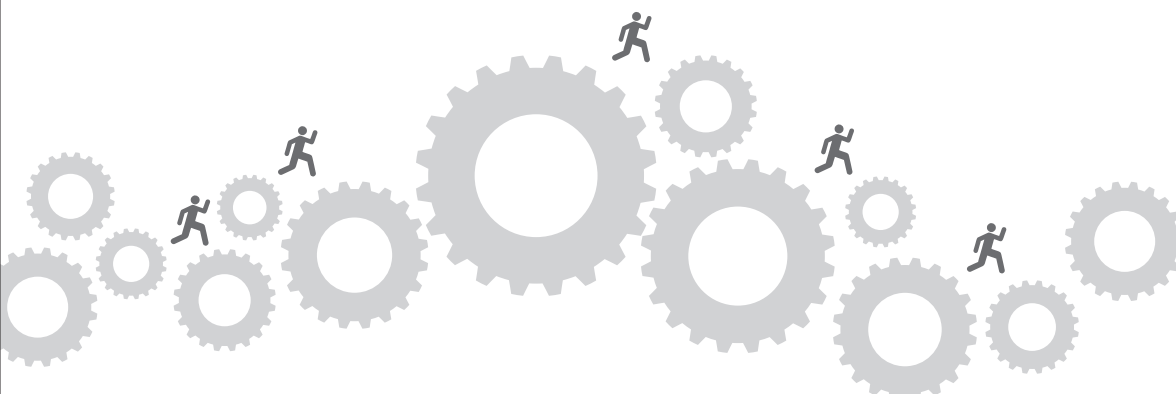
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5. **Name of Faculty:** Mr. Nikunj Tahilramani  
**Title of Paper:** Information Hiding in Proposed 10.6 kbps CS-ACELP Based Speech Codec Using Quantization Index Modulation  
**Name of Journal:** IEEE International Journal of Signal Processing, Image Processing and Pattern Recognition (IJSIP)

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6. **Name of the faculty:** Darshil Shah , Ravi Shukla , Aakash Shah  
**Achievement:** Attended summer school on “Learning in Data Science : Model , Algorithm and Tools” organized by the School of Engineering and Applied Science (SEAS), Ahmedabad university (AU).

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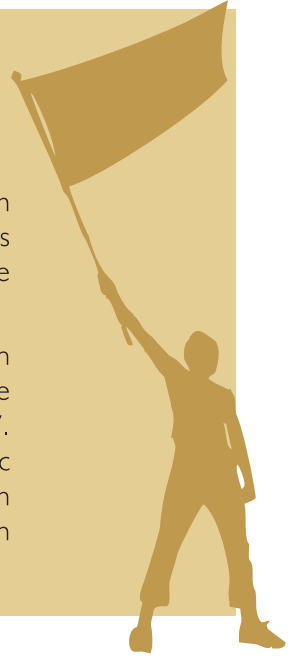


# Student Achievements



Kartik Thakkar a 3<sup>rd</sup> semester student from Computer Engineering Department was certified by Google as Google Partner. Later he also cleared the IQ examination by Google.

An online event “Black Coding” was held in Computer Engineering Department of the Institute with IEEE Socet SB on 22<sup>nd</sup> July, 2017. The event gave emphasis on basic fundamentals of C-language & logic. The team including Kartik Thakkar won the first prize in this competition.



# Life @ the Campus

International Chess Day was celebrated @ Silver Oak Group of Institutes on 20<sup>th</sup> July,2017



Winners of the chess competition



International rated chess player  
Mr. Samir Vyas giving tips to students



Mr.Samir Vyas playing chess with  
15 players simultaneously



# SALUTING MOTHER INDIA

71<sup>st</sup> Independence Day Celebration @ Silver Oak Campus



**SILVER OAK**

Education to Innovation

SILVER OAK COLLEGE OF ENGINEERING & TECHNOLOGY

ADITYA SILVER OAK INSTITUTE OF TECHNOLOGY

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