



The **SILVER OAK** Times

Education to Innovation

Silver Oak Group of Institutes
PRESENTS

PROJECT FAIR 2018



Silver Oak Group of Institutes, Ahmedabad has always taken unique initiative for the betterment of students. As per the GTU curriculum final year students have to carry out their projects under the title of IDP/UDP. Students work on different challenges faced by industries or society, they try to solve that challenges as a part of their project work. Silver Oak College of Engineering & Technology and Aditya Silver Oak Institute of Technology had organized a project fair on

28th March, 2018 at SOGI Campus, Ahmedabad. The project fair had provided platform for the students to display the innovative projects that address several issues faced by the society and tried to provide optimum solution to resolve the same. Project Fair was a success under the guidance of Honourable Directors and Principals Dr. Saurin Shah, SOCET and Dr. Siddharth B Jadeja, ASOIT. Aim of this fair was to showcase work done by final year students.



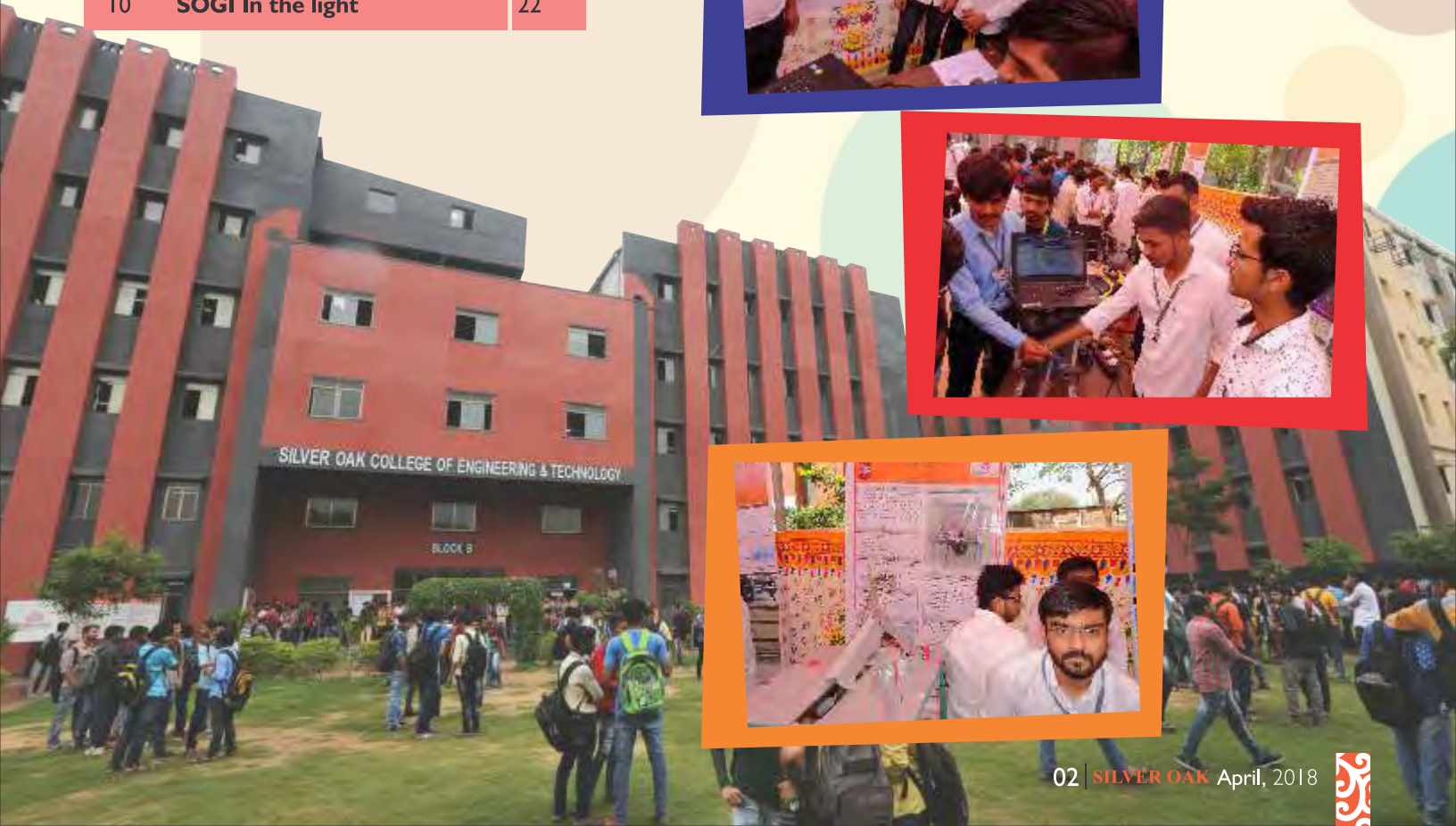
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PROJECT FAIR 2018



I learnt thinking out of the box.





PROJECT FAIR 2018



Appreciation Motivates us.



Yes, we love to flaunt our skills.





PROJECT FAIR 2018



WINNERS

Mechanical Department

1st Prize : Design and construction of special purpose front wheel chock for twowheelers,
Guided by : Prof. Hardik Shukla .
Students : Jatinkumar, Lijo Abraham, Bhavsar Malay Sunil

2nd Prize : ELECTROMAGNETIC AUTOMATIC SHEET METAL BENDING MACHINE
Guided by : Prof. Mahendra Kataria
Students : Kamlesh Kumavat, Rajput Romil, Vahora Tanvir, Vaghasiya Pranav

3rd Prize : **UDP TWO WAY MILITARY DRONE**
Guided by : Prof. Mit Patel
Students : Nirmal Jaimin Rajeshkumar, Nayak Bhargav Samirkumar, Patel Abhishek Shaileshkumar, Patel Jaydip Anilbhai

Civil Department:

1st Prize : Zero Energy Building project, Made by Patel Vatsal, Dalwadi Raj, Rathod Rohan Karshan, Patel Jay and Jangid Lokesh

2nd Prize : Revitalization of Cultural Heritage of Ahmedabad City, Created by Patel Anjali A, Rupala Hiral k, Himani P. Contractor and Niyati G. Patel

3rd Prize : Vishwakarma Project by PATEL KISHANKUMAR VIJAYBHAI and RAJPUROHIT PURVESH R.





Computer Engineering

1st Prize : K-life made by Karmin Dave and Dhruvin Desai

2nd Prize : Society Club by Dip Patel and Hard Patel

3rd Prize : Plant connect by Kishan Das, Kapil Acharya, Parth Patel

Electronics and Computer Engineering

1st Prize : Biometric lock using fingerprint by Dhruv Nayak, Thakor Jignesh and Soham Bhardwaj

2nd Prize : Text to Speech using Raspberry Pi by Disha Patel, Jaydeep Gajjar and Vivek Rasalkar

3rd Prize : Speech to Text using Raspberry Pi by Hinal Modi, Pooja Shah and Himani Raghav

Electrical Department

1st Prize : Gesture Control Robot using Arduino ,

Guided by : Prof. Darshana Ahir,

Made by : Patel Jaladhi, Kothari Jay, Sangol Keyur, Solanki Brijesh and Suthar Hardik

2nd Prize : GSM Based Distribution Transformer Monitoring System guided by Dr. Manan Pathak, MAde by: Jagetiya Rakesh, Nakrani Abhishek, Parmar Ruturaj, Parmar Sumit and Patel Masum

Information Technology Engineering

1st Prize : Node-Based Shader Editor by Dhruv Joshi, Pruthvirajsinh M. Parmar, Breej M. Vania and Deep. T. Desai

2nd Prize : Dynamic server Load balancer by Shalin Chokshi, Nrupen Chodhary, Manan Jani and Jainesh Patel





From
The Chairman's
Desk



Hello Friends,

Warm greetings from the SOGI family!!

We at SOGI believe in 'Education to Innovation'. Following this belief our Institute offers students numerous platforms to showcase their talent and innovative side. This month witnessed one such event 'Project Fair 2018' where final year students exhibited their projects and shared ideas that can be implemented into reality. The Fair gave them an opportunity to share their technical know-how with peers and also participate in a fruitful interaction with industry experts. This turned out to be a very fruitful experience for our students.

Keep reading for more news at SOGI!!

Shital Agrawal
Chairman.





From
Executive Director's
Desk



Dear Friends,

The present month witnessed the organization of “Project Fair 2018’. The objective of such academic fairs is to provide a podium for students to exhibit their innovative ideas by posters and working model and get necessary feedback from the industry experts. The event witnessed active student participation. Overall through this our students became acquainted with project innovation techniques and ideas. They also got insights into actual technologies prevalent in industries and application of the same for future business.

More updates to follow!!

Janak Khandwala
Executive Director





Towards Learner Centric Education Environment



Relay Coding

On the 26th of March, the 6th semester students participated in a Relay Coding activity which was facilitated by Prof. Murti Patel. Through this fun activity they learnt to enhance Practical knowledge and their coding skills. The objective was to give them practical exposure through some fun activity.

It feels like Untangling a Knot



This seems so
easy while
working
with friends





Real world Exposure



Finding Bugs Activity

An activity was facilitated by Prof. Archana Gondalia for the students of 6th semester Computer engineering, where the students were given some programs having errors and had to solve it in certain duration. The Activity was a mock activity of

the real job scenarios. The objective was to enhance their Practical knowledge, enable them to find errors in the code, to enhance coding skills by identifying bugs in the code and enhance their ability to solve error.





Outcome Based Education



A seminar on CAD Modeling of Advanced Mechanical Components



A seminar on CAD Modeling of Advanced Mechanical Components was organized to acquire knowledge about the capabilities of Creo 2.0 ANSYS 18.0 to perform various kind of Analysis. 60 students of the 6th semester Mechanical Department attended this seminar. Students learnt about how to use and when to use particular analysis software for different conditions. They cleared their doubts by interactive session related to Modeling and Analysis Software. At the end they have been guided through minor knowledge about Optimization tool, Material properties window, Meshing, Solution on advanced mechanical models in ANSYS 18.0. This whole session was conducted by Prof. Karan Dutt and Prof. Jay Khatri. Activities include Structural Analysis of One Dimensional FEA Components by using Software. Structural Analysis of Three Dimensional FEA Components by using Software.





EC Reliance Jio Training

One can do a lot if one is trained properly. A great emphasis is put on skill development nowadays and with rapid advancement in technology, the emerging challenges can be met with rigorous training only. The zeal and enthusiasm of the students of 6th Semester-Electronics & Communication Department to learn something innovative was fulfilled by organizing a training session on "Reliance Jio – FTTH Home Connect". The session was co-ordinated and conducted by Prof. Rina Parikh (EC-SOCET) during 28th December to 30th December, 2017. The lab setup was done at Pratt-Muller

Centre of Training, Shayona Lab as per the requirements given by the industry experts earlier. Total of 25 participants (2 Faculty member and 23 students) attended the training. The training programme covered theory session for two days, including field work job requirements as well as perspectives and hands on session on fibre connectorization using various tools. The important modules like Installation Material Display Board, Poster Learning and Home Connect Installation Classroom Demo were covered.





Technical visit

On March 17, 2018, a technical visit was conducted for the students of the 6th semester to the Railway Workshop under the guidance of Prof. Bhavna Mistry. Through this visit the students gained knowledge about different components of

railway track, design of cross section, system of signaling and interlocking and different types of Crossings. Students also gained knowledge of resurfacing process of wheel of wagon and detection of failed parts of axle in railway workshop.



Learning + Picnic = Industrial Visit



Learning On-The-Field





Smart Gujarat

Hackathon 2018

Our Hon'ble Prime Minister, Shri Narendra Modi, envisages a Digital India to bridge the digital divide in our country and further promote digital literacy in order to make development a comprehensive mass movement and put governance within everyone's reach in India. In order to work towards our PM's vision, MHRD, All India Council for Technical Education (AICTE), Inter Institutional Inclusive Innovation Center (i4C), and Persistent Systems organized Smart India Hackathon 2017, a unique initiative to identify new and disruptive digital technology innovations for solving the challenges faced by our country. The 2nd edition of this initiative - Smart India Hackathon 2018.



Celebrating" the fruits of "Hard-work





Hackathon 2018



Smart India Hackathon 2018 will have 2 sub-editions – Software as well as Hardware:

- Software Edition will be 36-hour software product development competition, similar in concept to Smart India Hackathon 2017
- The new Hardware Edition will be a hackathon where teams will work for 5 straight days and build their hardware solutions. This competition would be limited to only 5 nodal centres with 20-25 teams each.



Tirth Luhar, Kush Joshi, Jargi Panchal, Taruna Panchal and Darshan Gajjar with their mentors Prof. Archana Gondalia and Prof. Vidushi Patel, Receiving the prize money and Certificates. A team of 5 Students namely Tirth Luhar, Kush Joshi, Jargi Panchal, Taruna Panchal and Darshan Gajjar participated in Smart Gujarat for New India Hackathon held on 10th and 11th of March 2018.





Hackathon 2018



5 Teams from SOGI proposed solution for Smart India Hackathon out of which 2 Teams got shortlisted for Grand Finale and both won the first prize for different events at SVCE, Bangalore on 30 & 31 March 2018.

Under the mentorship of Prof. Archana Gondalia and Prof. Vidushi Patel, one of the teams from 6th IT has been selected for the "Smart Gujarat for New india Hackathon 2018" organized by Gujarat Government and won first prize worth 50,000 INR. Students won this competition in "Information & Broadcasting" Domain.





Hackathon 2018

Challenge Statement for our team as per below definition:

Name of Department: Information and Broadcasting

Challenge Title: Online Journalist Registration and Renewal Another Team that Proposed Solutions for Agriculture Department got Selected and Won 1 st Prize and cheque of Rs 50000/-.

Ministry/Department Category: Agriculture, Farmers Welfare and Co-operation Department

Problem Statement: Ask to Agri Expert

College Name: Silver Oak College of Engineering and Technology

Faculty Guide: Kapil shukla

Team Leader: Parshwa Shah

To celebrate this achievement, students and mentors along with HODs met with Siddharthsinh Jadeja Sir, Saurin Shah Sir, Janak Khandwala Sir and Poonam Aggrawal mam.





Students Centric Activity



OSTC Club Activity

To take benefit of GTU OSTC initiative, Aditya Silver Oak Institute of Technology, Ahmedabad Gujarat, had set up an Open Source Technologies Club (OSTC) in collaboration with Team Spoken- tutorial, IIT Bombay. We had conducted various workshops on Open Source Technologies for 4th and 6th semester students of CE/IT.

The objective of Spoken Tutorials is to learn Free and Open Source Software (FOSS) and pass certification exams conducted online by IIT Bombay. It helps the students to learn topics through simple tutorials free of cost.

Workshop of C language was organized in computer labs. On 17th March 2018, 110 students of 4th semester Computer Engineering and Information Technology Department, participated in that workshop. The faculty coordinator was Prof. Murti Patel.

An online test for 98 students was conducted on 24th March 2018 out of which 79 students cleared the test and were awarded with the certificate from IIT-B, OSTC. under the invigilation of Prof. Rachana Mehta





Research Initiatives



Prof. Manan Pathak, Assistant Professor in Department of Electrical Engineering Aditya Silver Oak Institute of Technology Presented Two Research Paper entitled as follows in International Conference on Energy and Infrastructure Management (ICEIM 2018) at School of Petroleum Management, PDPU, Gandhinagar during 15 – 16 February 2018:

Paper 1 – “ Feasibility Study and Design Optimization of Hybrid HVAC/HVDC Transmission Line by conversion of Existing HVAC Lines to Increase Transmission Capacity and Efficiency”;

Paper 2 – “Ventilated Shield type Power Controller Gadget for Automatic Power Factor Corrector with Micro controller based Embedded FACTS Technology”;

From these two, the former was awarded with the first prize.

Ms. Nikita Gadani Assistant Professor in General Department, Aditya Silver Oak Institute of Technology was invited as a resource person to deliver a session on "Importance of English in Present Scenario" at Smt.C.S.Gadani Secondary and Higher Secondary School at Ranpur on 12th April 2018. She explained the students the need for improving their communication skills as well as ways to effectively improve their grip on the English language.



Students Achievements



INDIAN ROSEWOOD CLUB ARAVALLI TERRAIN VEHICLE CHAMPIONSHIP (ATVC) 2018

ARAVALLI TERRAIN VEHICLE CHAMPIONSHIP Event was sponsored by Infield Motorsports during 23th March to 28th March at Kota. 25 colleges across the India had participated in this event. There were several events like Brake test, Design event, Business event, Sledge Pull test, Acceleration test, Maneuverability test and final Endurance Race. The weight of the Machete 4.0 is 154 Kg which was the lightest ATV among all.



Students of Mechanical Engineering Department of Silver Oak College of Engineering & Technology, Ahmedabad, Gujarat have written golden words in the history of ATV competition by securing Overall 1st rank among all the colleges of India with total prize money of Rs.3,25,000 which was organized by Rajasthan Technical University at Kota in March-2018.

Team Spark X is overall champion of ATV Championship 2018 with securing 1st rank among all the colleges of Gujarat & India.





ASME's Human Powered Vehicle Challenge (HPVC) Asia Pacific 2018. Silver Oak Affirmed the Endurance Title.

ASME's international Human Powered Vehicle Challenge (HPVC) provides an opportunity for students to demonstrate the application of sound engineering design principles in the development of sustainable and practical transportation alternatives. In the HPVC, students work in teams to design and build efficient, highly engineered vehicles for everyday use from commuting to work, to carrying goods to market.

This year ASME's Human Powered Vehicle Challenge (HPVC) Asia Pacific 2018 was hosted by the Delhi Technological University (DTU) Delhi, India on March 16 - 18, 2018. The first stage of the competition involves the preparation of a comprehensive design report. The second part includes a demonstration of a technical innovation, Safety measures included in the design, a speed event (head-to-head drag race of 400 meters) and a 2.5 hour endurance race held over the course circuit having a track length of 1.6 Kms.



Students of Mechanical Engineering Department of Silver Oak Group of Institute, Ahmedabad, Gujarat have written golden words in the history of ASME's Human Powered Vehicle Challenge (HPVC) Asia Pacific by securing the 1st rank in Endurance Race among all the colleges of Asia Pacific region which was organized by ASME (American society of Mechanical Engineering) and hosted by the Delhi Technological University (DTU) Delhi, India on March 16 - 18.

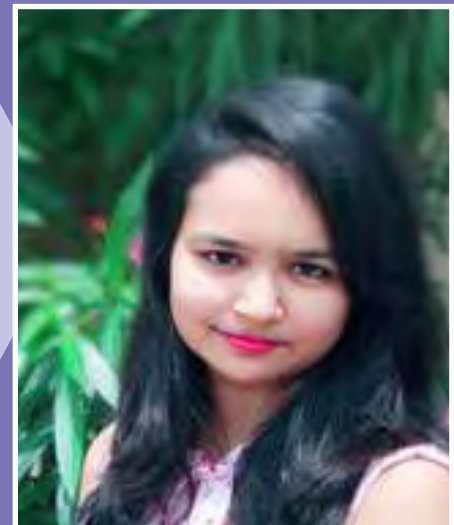




Janki Patel

Research paper of Ms. Janki Patel (PG-EC Department) titled 'Bandwidth Extension of Speech Signals Using Quadrature Mirror Filter (QMF)' under the able guidance of Prof. Nikunj Tahilramani (HOD-EC), (IEEE signal processing society Chapter secretary, Gujarat section) has been selected at IEEE sponsored 7th International Conference On Computation of Power, Energy, Information and Communication (ICCPEIC- March 2018). The Conference proceedings will be published in one of the subsequent scientific metadata repository as Science Citation Index, Scopus, Science Direct, IEEE xplora digital library.

Research paper of Ms. Ruchi Patel (PG-EC Department) titled 'Implementation And Performance Analysis Of G.723.1 Speech Codec' under the able guidance of Prof. Nikunj Tahilramani (HOD-EC), (IEEE signal processing society Chapter secretary, Gujarat section) has been selected at IEEE sponsored 7th International Conference On Computation of Power, Energy, Information and Communication (ICCPEIC- March 2018). The Conference proceedings will be published in one of the subsequent scientific metadata repository as Science Citation Index, Scopus, Science Direct, and IEEE xplora digital library.



Ruchi Patel





SOGI in The Light



SOGI feature in the News18 channel in one of the episodes of Apna Adda- Youth Ki Awaz.







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