



ANNUAL REPORT OF THE ACADEMIC YEAR 2017-18

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ABOUT DJSCE IETE

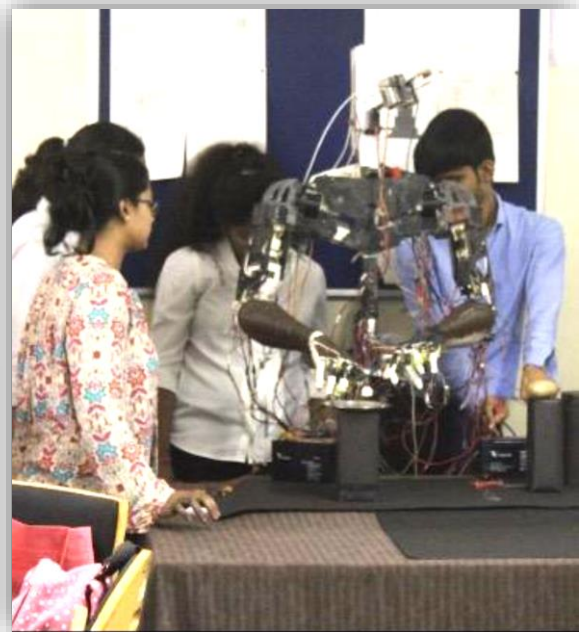
IETE (Institution of Electronics and Telecommunication Engineers) is a professional society for the advancement of scientific and technologically bent minds in the field of Electronics and Telecommunication.

IETE consists of two streams of student base. First wing is the students of alma-mater, IETE, viz. the pass outs of DIPIETE, AMIETE and ALCCS students which forms an Alumni Association. The second wing is the Engineering students studying in Engineering Colleges and Polytechnics across the Country. This wing is the IETE-SF (IETE Students Forum).

The IETE Student's Forum of D.J. Sanghvi College of Engineering was founded in 2005. Since its inception, it has always strived not only towards imparting scholastic knowledge but also promoting extra-curricular activities. This motto has been reinforced by the events organized by IETE-SF till date. Charged with determination to set the bar higher than last year, the core committee always embraces new members into its existing team, blending creativity and ethos with remarkable flair.

DJ SPARK 2017

DJ Spark plays a host to various colleges from all over Maharashtra, from where students submit papers about their projects. The papers submitted in IEEE format are thoroughly assessed by the EXTC department faculty members, and the best ones are chosen. The chosen projects are showcased in an exhibition which all are invited to visit. Eminent personalities from industries are invited to access projects based on innovative ideas and applicability. DJ Spark is not only a platform for the participants to compete but also to share technical ideas and views. The top projects are awarded. The papers of selected projects are published in DJ Spark's own Technical Journal having an ISSN number. Hence, giving them an unprecedented exposure and encouraging them to excel further.



We believe that projects play a very critical role in shaping a good engineer. Students who do good projects in their college days have better engineering skills and stand apart from others in the placements and in their jobs. It is the vision of IETE-SF to create better engineers through projects and project based competitions. We wish to identify students doing good projects and reward them for their efforts.

Competition Structure

Stage 1: Registration

Participants were asked to submit the details of their project by 1st March 2017.

Stage 2: Shortlisting

Acceptance notification by 13th March 2017.

Stage 3: Completion of the project

Registration of accepted projects by 21st March 2017.

Stage 4: Finals

Around 300 students participated in the competition and more than 90 students were present on the day of the event. More than 85 papers were submitted and 28 projects were selected after the review process.

The event started with inauguration by our distinguished guests Dr. Hari Vasudevan, Dr. A. C. Daptardar, Dr. A. R. Joshi and Dr. Amit A. Deshmukh.

A panel of judges comprising of experts Mr. Rahul Abhiyankar, Mr. Kolekar and Mr. Neeraj Gangrade from industry and academia reviewed the projects and selected the winners.

Prizes

1st Prize - Rs. 10,000

2nd Prize - Rs. 6,000

3rd Prize – Rs. 4,000



Results Announced

1st Prize:

Project Name: Soil Based Data Acquisition System

2nd Prize:

Project Name: Knee Rehabilitation using ATMEGA 2560

3rd Prize:

Project Name: Audience Measurement System



डि. जे. संघवी कॉलेजच्या विद्यार्थ्यांचे अफलातून प्रोजेक्ट्स

राज्यातील सर्व शाळा, महाविद्यालयांमध्ये 'अफलातून प्रोजेक्ट्स' स्पर्धा आयोजित करण्यात आली आहे. डि. जे. संघवी कॉलेजच्या विद्यार्थ्यांनी या स्पर्धेत अनेक प्रोजेक्ट्स तयार केले आहेत. या प्रोजेक्ट्सचा सारांश खालीलप्रमाणे आहे:

प्रोजेक्टचे नाव	प्रोजेक्टचे उद्देश्य
1. अफलातून प्रोजेक्ट	...
2. अफलातून प्रोजेक्ट	...
3. अफलातून प्रोजेक्ट	...
4. अफलातून प्रोजेक्ट	...
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8. अफलातून प्रोजेक्ट	...
9. अफलातून प्रोजेक्ट	...
10. अफलातून प्रोजेक्ट	...

प्रिंटर तुमच्या खिशात

विद्यार्थ्यांनी तयार केलेले प्रिंटर, जो तुमच्या खिशात टाकून घेऊन जाऊ शकतो. या प्रिंटरचा वापर करून तुम्ही तुमच्या खिशातच प्रिंटिंग करू शकाल. या प्रिंटरचा वापर करून तुम्ही तुमच्या खिशातच प्रिंटिंग करू शकाल. या प्रिंटरचा वापर करून तुम्ही तुमच्या खिशातच प्रिंटिंग करू शकाल.



या प्रिंटरचा वापर करून तुम्ही तुमच्या खिशातच प्रिंटिंग करू शकाल. या प्रिंटरचा वापर करून तुम्ही तुमच्या खिशातच प्रिंटिंग करू शकाल. या प्रिंटरचा वापर करून तुम्ही तुमच्या खिशातच प्रिंटिंग करू शकाल.

संघवी कॉलेजमध्ये रंगला डी. जे. स्पार्क महोत्सव

राज्यभरातील विद्यार्थ्यांचा उत्कृष्ट प्रतिस्पर्धा



या महोत्सवात विद्यार्थ्यांनी अनेक प्रोजेक्ट्स तयार केले. या प्रोजेक्ट्सचा सारांश खालीलप्रमाणे आहे:

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9. अफलातून प्रोजेक्ट	...
10. अफलातून प्रोजेक्ट	...

शोतात राबणार रोबोट

विद्यार्थ्यांनी तयार केलेले रोबोट, जो शोतात राबू शकतो. या रोबोटचा वापर करून तुम्ही शोतात राबू शकाल. या रोबोटचा वापर करून तुम्ही शोतात राबू शकाल.



या रोबोटचा वापर करून तुम्ही शोतात राबू शकाल. या रोबोटचा वापर करून तुम्ही शोतात राबू शकाल. या रोबोटचा वापर करून तुम्ही शोतात राबू शकाल.

STUDENT COMMITTEE 2017-18

Heetika Gada
Aditti Agarwal
Pooja Jha
Megh Doshi
Parth Thakar
Asmita Dabholkar

Kinjal Savla
Jatan Mehta
Mrudang Langalia
Preethi Abraham
Aditya Desai


Maitriya Damani
Muddassir Shaikh
Advait Varma
Kevil Shah
Chirag Thakkar
Shruti Ravichandran
Harshini Patani
Mit Shah
Suhrid Subramaniam

Jugal Makwana
Swarali Desai
Vedant Gokani
Aman Bhargava
Kajal Wadhvana

Shane Fernandes
Prerana Patel
Anish Shetty
Yash Jain
Leesha Ramrakhiany
Heer Desai
Dishant Shah
Khushali Jhaveri
Siddharth Thakker
Mihir Vithlani

IETE FORTNIGHT





'IETE Fortnight' was a series of workshops, seminars and lectures conducted by IETE-SF, over a span of 16 days from 17th September, 2017 to 2nd October, 2017. It was an initiative to educate students on subjects that are of utmost importance but not included in the academic curriculum. It covered events on different subjects varying from guidance for drafting a professional looking Resume to designing a PCB.



The poster is for 'IETE Fortnight' events. At the top, it features the SVKM logo on the left and the Dwarkadas J. Sanghvi College of Engineering logo on the right. The college name and address are in the center: 'Shri Vile Parle Kelavani Mandal's DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING Vile Parle (W) Mumbai - 400 056'. Below this is the IETE logo with 'DJSCE' above it and 'PRESENTS' below it. The main title is '<IETE FORTNIGHT>' in large white letters. Underneath is 'FEATURING' in white. The poster is divided into nine colored boxes, each for a different event. Each box contains the event title, speaker name, date, time, cost, and lunch provision. Some boxes include small icons related to the event.

Shri Vile Parle Kelavani Mandal's
DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING
Vile Parle (W) Mumbai - 400 056

DJSCE
IETE
PRESENTS
<IETE FORTNIGHT>
FEATURING

ETHICAL HACKING DATE: 1st And 2nd October TIME: 9.30pm to 4.30pm COST: RS. 1500 per person Lunch Provided on both the days 	MATLAB AND SIMULINK BY PROF. VENKATRAMAN DATE: 17th September for SE 24th September for TE and SE TIME: 9.30pm to 4.30pm COST: RS. 100(IETE members) RS. 200(Non IETE members) Lunch Provided on both the days 	
SMITH CHARTS BY DR. AMIT A. DESHMUKH DATE: 29th September TIME: 4.30pm to 6pm COST: Free 	POWER ELECTRONICS  BY PROF. AMEYA KADAM PROF. NIHARIKA MALIWAR DATE: 25th September COST: Free; TIME:3 - 5.30pm	ARDUINO DATE: 18th and 20th September TIME:3.30 to 6.30pm COST: Rs. 1000 for a group of 4 
HOW TO WRITE A TECHNICAL PAPER? BY PROF. MRINAL PATWARDHAN DATE:27th September TIME: 4 to 6pm COST: Free(IETE members) Rs. 50(Non IETE members)	PCB DESIGNING DATE:1st and 2nd October Cost: Rs. 150(IETE members) Rs. 300(Non IETE members) TIME: 9.30pm to 3.30pm Lunch provided on both the days 	HOW TO WRITE A CV/RESUME? BY PROF. SHIRLEY MATHEW DATE: 28TH September TIME: 3.30pm to 4.30pm COST: Free(IETE members) Rs. 50(Non IETE members)

EVENT 1: MATLAB WORKSHOP

Date: 17th September, 2017 and 24th September, 2017

Response: 50+ participants

Conducted By: Prof. V Venkataramanan, EXTC Department

About the workshop:

IETE-SF's Fortnight started off with a *workshop on MATLAB*.

MATLAB, which stands for Matrix Laboratory, is a high-performance language for technical computing, developed by “MathWorks”. MATLAB allows matrix manipulations, plotting of functions and data, implementation of algorithms, creation of user interfaces and many more exciting features. MATLAB is an essential tool and is one of the easiest and most productive software environment for engineers. First day of the workshop was an introductory session while the second day was dedicated to learning more advanced applications. Participants were given hands-on training on the fundamentals in MATLAB and Simulink, Computer Vision System, Signal Processing, Image Processing and Image Acquisition Toolbox of MATLAB over the two days. Day 1 was for SE students while Day 2 was for TE students



EVENT 2: ARDUINO WORKSHOP

Date: 18th September, 2017 and 21st September, 2017

Response: 90+ Participants

Conducted By: Megh Doshi, Joint Secretary, IETE-SF

About the workshop:

IETE-SF's Fortnight's second event was a *workshop on Arduino*.

Arduino is an open-source platform which consists of both a physical programmable circuit board and a piece of software, used to write and upload computer code to the physical board.

An Arduino can be used to build a variety of engineering projects and is one of the most widely used tools because of its cost efficiency and simplicity.

Students participated in teams of four, learning and implementing different applications on their Arduino kits under the supervision and help provided by IETE-SF's technical team.

Participants were taught to execute the following using Arduino:

- Basic LED blink code
- IR based proximity sensing unit
- Use of temperature sensors for measuring real time temperature
- Detecting audio input using sound sensors
- Navigation based on distance calculations using Ultrasonic sensors



EVENT 3: LECTURE ON POWER ELECTRONICS

Date: 25th September, 2017

Response: 57+ Participants

Conducted By: Prof. Ameya Kadam and Prof. Niharika Maliwar, EXTC Department

About the lecture:

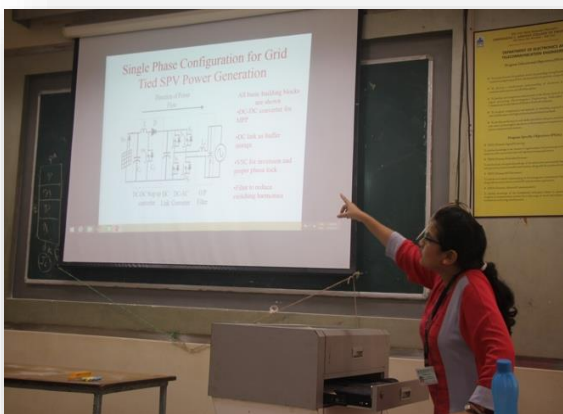
IETE-SF's Fortnight's third event was a *lecture on Power Electronics*.

Power electronics is a hybrid of Power engineering, Analog electronics, Semiconductor devices and Control systems, which is basically the study of switching electronic circuits in order to control the flow of electrical energy.

Power electronics is a contemporary subject of engineering with a lot of recent advancements. It has a wide variety of commonly used applications, making it one of the most important subjects of Electronics.

The lecture was divided into two halves. The first half was conducted by Prof. Niharika Maliwar. It was mainly focused on introduction to power electronics and basic concepts involved in its study.

The second half of the lecture was conducted by Prof. Ameya Kadam. It was dedicated to some of the most common applications of Power Electronics like SCR.



EVENT 4: SEMINAR ON HOW TO WRITE A TECHNICAL PAPER

Date: 27th September, 2017

Response: 100+ Participants

Conducted By: Prof. Mrinal Patwardhan, EXTC Department

About the seminar:

IETE-SF's Fortnight's fourth event was a seminar on *how to write a technical paper*.

A Technical Paper is a globally practised method for putting forth one's idea or theory regarding science and technology. Hence, it is imperative for budding engineers to master the art of writing a technical paper, in order to be able to present their ideas and research with proper documentation. It is with this aim that this seminar was organised.

It was also aimed at providing a basic insight for SE students who were participating in IETE-SF's project based mentorship program called 'DJ Strike', wherein they were required to make a technical paper on their projects.

The seminar proceeded as follows :

- What exactly a technical paper is?
- Need for writing a technical paper
- Thought process involved during drafting a technical paper
- Standardised rules and format for writing a technical paper
- A few tips and pointers for writing a good technical paper



EVENT 5: SEMINAR ON HOW TO WRITE A RESUME

Date: 28th September, 2017

Response: 100+ Participants

Conducted By: Prof. Shirley Mathew

About the seminar:

IETE-SF's Fortnight's fifth event was a seminar on *how to write a Resume*.

A resume is nothing but a written compilation of your education, work experience, credentials, and accomplishments. Most professional positions require applicants to submit a resume as part of the application process.

A Resume is the first impression of an interviewee. Hence, it is very important to have an impressive Resume. However, it is a skill that most people lack and do not take seriously. Hence, IETE-SF took an initiative to educate the students in this regard.

The seminar proceeded as follows:

- Importance of having an impressive resume
- Difference between a CV and a Resume
- Proper format for drafting a Resume
- Do's and Don'ts that have to be kept in mind while drafting a Resume
- Applications available online that helps in drafting a professional grade Resume



EVENT 6 : ETHICAL HACKING WORKSHOP

Date: 1st October, 2017 And 2nd October, 2017

Response: 70+ Participants

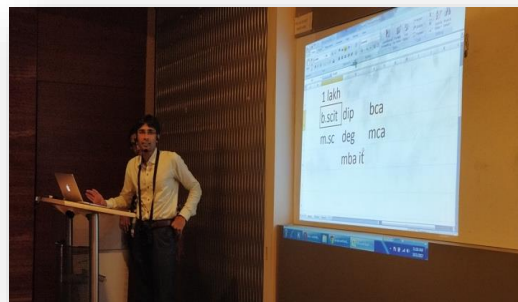
Conducted By: Mr. Sachin Dedhia (certified independent cybercrime investigator, Skynet Secure Solutions) and team

About the workshop:

IETE-SF's Fortnight's sixth event was a *workshop on Ethical Hacking*. The workshop was conducted by IETE-SF and ICWiCOM in association with Skynet Secure Solutions. An ethical hacker is a computer and networking expert who systematically attempts to penetrate a computer system or network on behalf of its owners for the purpose of finding security vulnerabilities that a malicious hacker could potentially exploit. With ever increasing dependency on software solutions in our day to day lives, cyber security has become extremely essential. Hence, IETE-SF took an initiative to provide an opportunity for students to learn about it from a certified Ethical Hacker.

Following were the topics covered in the workshop:

- Importance of Ethical hacking tools
- Types of hackers
- QuickCrypto steganography
- Keylogging
- IP spoofing
- Kali linux (a virtual box)
- Hacking tools like Wireshark, Reaver , Pixiewps and Aircracking



EVENT 7: PCB DESIGN WORKSHOP

Date: 1st October, 2017 And 2nd October, 2017

Response: 20+ Participants

Conducted By: Kinjal Savla (Technical Head of IETE-SF), Pooja Jha (Secretary of IETE-SF), Shivam Pandey (TE EXTTC)

About the workshop:

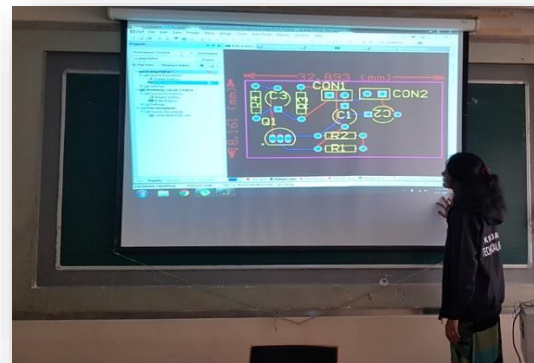
IETE-SF's Fortnight's final event was a *workshop on PCB Designing*. The workshop was conducted by the technical team of IETE-SF.

It was a hands on PCB designing workshop using Industrial level EDA tool Altium. Printed Circuit Board (PCB), is the board base for physically supporting and wiring the surface-mounted and socketed components in most electronics. Almost all the hardware projects require a student to design the PCB as the final step of the project. Hence, IETE-SF provided an opportunity for the students to learn this essential skill, to help them in their final years projects as well as others.

The workshop covered the following:

Hands on training with Industrial level tools

- Two layer PCB designing
- Etching and Soldering
- EDA tool used was Altium



ARTIFICIAL INTELLIGENCE AND COMPUTER VISION WORKSHOP

Date: 21st, 26th, 27th, 28th January, 2018 And 3rd, 4th February, 2018

Response: 50+ Participants

Conducted By: Ms Roma Jain (Alumni) and Mr Sameer Kadam (Alumni)

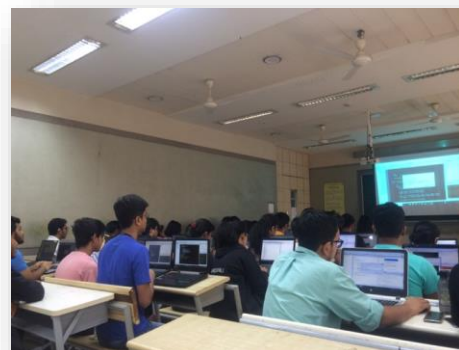
About the workshop:

IETE-SF organised its first event of 2018, a workshop on Artificial Intelligence and Computer vision. This workshop was conducted in association with EXTC Alumni.

As the name suggests, the workshop was designed to introduce Computer Vision, which is a study of how computers can be made to perform tasks that a human visual system can perform and how it can be utilised in developing AI technology. The workshop aimed at introducing students to the concepts of AI as it is one of the most sought after upcoming technologies, with a vast scope for advancement and improvement in terms of technology.

Following topics were covered in the workshop:

- Object Recognition
- Face Detection
- Emotion Recognition
- Text Extraction
- Computer Vision and its applications
- Introduction to Haar Cascade algorithm
- Introduction to Python
- Introduction to Neural Network
- Convolutional Neural Network Basics
- Computer Vision and Deep Learning



LECTURE ON SMITH CHARTS

Date: 17th February, 2018

Response: 40+ Participants

Conducted By: Dr. Amit A. Deshmukh, HOD, EXTC Dept.

About the lecture:

IETE-SF organised its second event of 2018, *a lecture on Smith Charts*.

The Smith chart is a graphical aid designed for electrical and electronics engineers specializing in radio frequency (RF) engineering to assist in solving problems with transmission lines and matching circuits. Smith Chart is a powerful tool for microwave analysis and antenna design. Because of its simplicity, it is also one of the most widely used tools, which makes it a very important topic. Since it is not included in the curriculum, IETE-SF took the initiative to educate students in this respect.

Following topics were covered in the lecture:

- What is a Smith Chart and why is it an important tool?
- Conversion between Z and S transform
- Understanding how a smith chart is used to plot impedances and admittances
- Solving examples using Smith Chart
- Applications



TECHNICAL TALK ON AUDIO AND SPEECH PROCESSING

Date: 20th February, 2018

Response: 120+ students

Conducted By: Dr. Milind Shah (HOD, EXTC, Fr. Agnel College of Engineering)

About the talk:

IETE-SF organised its third event of 2018, a tech talk on Audio and Speech Processing.

The talk was mainly focused on introducing the concept of speech processing by the human brain and the concepts involved behind the technology used for synthetic speech processing. It was aimed at invoking curiosity in the minds of the audience encouraging students to take up Speech Processing as an elective subject.

Following topics were covered in the talk:

- The biological Speech Chain
- Visual and Tactile feedback systems
- Frame based short time processing
- Generic short time processing
- Modified autocorrelation based pitch estimation
- Matlab commands for pitch and shape estimation
- Applications in teaching deaf children to talk



TECHNICAL TALK ON ARTIFICIAL INTELLIGENCE AND NETWORK SECURITIES

Date: 6th March, 2018

Response: 120+ students

Conducted By: Mr Rajeev Raval (Sr. Deal Architect & Head in Pre-Sales and Security Solutions at BT Global Services)

About the talk :

IETE-SF organised its fourth event of 2018, a tech talk on Artificial Intelligence and Network Securities.

The talk was mainly focused on introducing how Artificial Intelligence can be used in different spheres of technological applications and its use specifically in the field of Network Securities. It also included how AI technology is being used by top organisations like Google to create a niche for them. This session was aimed at shedding light on the tremendous potential of AI technology and the vast arena of possibilities that it provides a door to.

Following topics were covered in the talk:

- Concept of Bare Metal Coding
- The working Hadoop, a platform to save big data framework
- Radio Frequency Identification
- Application programming interfaces to cryptocurrency
- Founding stories of successful companies like Google, Amazon and Facebook
- Basics of Machine learning and neural computing



GMRT – INDUSTRIAL VISIT

Date : 9th March, 2018

Response : 45+ students

Conducted By : IETE-SF committee

About the IV :

IETE-SF organised its fifth event of 2018, an industrial visit to 'Giant Metrewave Radio Telescope' (GMRT), located in Khodad, Pune.

The GMRT has a total of 30 telescopes spread over a range of 25 km, in order to collect data from different locations and combine them to generate images. Students were given an opportunity to study the giant radio telescope from up close, with a professional technician explaining its constructional and features and its functioning. As it is a direct application of Radio Communication and signal processing, it enhanced the practical understanding of theoretical concepts studied by students in classrooms.

The IV was organised with an intention of providing exposure to practical learning from experienced professionals in the field of Electronics and Telecommunication and to encourage students to explore and delve deeper into the field of telecommunication.

Following subjects were discussed during the IV :

- Miniature model of all GMRT Telescopes
- The working process, from gathering information to combining it into a single image
- Antenna Rotation and Elevation Control
- Observed the GMRT control panel
- Importance of constructional features of GMRT for its efficient working



DJ STRIKE 2017-18

Date: From 22nd August, 2017 To 13th April, 2018

Response: 200+ Participants

Conducted By: IETE-SFs committee in association with the faculty of EXTC department.

About Strike:

IETE-SF's "DJ Strike" is a mentorship program under which teams comprising of second year and third year students are given an opportunity to create industrial level projects under the guidance of BE mentors as well as a faculty mentor. It was aimed at providing a platform for second year students especially, where they can be groomed under the tutelage of their seniors and professors. It aided to enhance a student's knowledge, increase interaction between the students of second, third and fourth year as well as provided a better learning experience.

'Strike' was conducted throughout the year in the following manner:

1. Inauguration ceremony

Date: 22nd August, 2017

About:

'DJ Strike' was inaugurated by the principal Dr. Hari Vasudevan in the seminar hall in presence of Dr. Amit A. Deshmukh, HOD, Extc Dept, faculty members and students. Strike 2017-18 was discussed in detail with all the participants and the faculty. The evaluation process and criteria was explained to the participants. Students were also informed about the aspects in which their projects will be evaluated. The principal addressed the audience and encouraged the initiative.

2. Project Report Presentation

Date: 3rd October, 2017

About:

The participants presented their project idea in the form of power point presentations. They explained the objectives and future scope of their projects as well as highlighted the speciality of their respective projects.

3. Design Report Assessment

Date: 13th & 14th October, 2017

About:

The participants submitted their project design report in which they had also specified the exact components, methodology and had given a rough estimation of the budget of their respective projects.

4. Strike Progress Review

Date: 22nd to 31st January, 2018

About:

The participants were asked to present their projects to their respective faculty guides as well as BE mentors to discuss their doubts and incorporate suggestions. Also, the projects were evaluated by the faculty guides, based on the graph of progress.

5. First Review

Date: 5th to 7th February, 2018

About:

The participants presented their partially completed projects in front of the review panel consisting of the faculty members. Their progress was evaluated based on criteria such as efficiency of design and feasibility.

6. Second Review (Final Review)

Date: 7th & 8th March, 2018

About:

The participants presented their final, completed projects along with the respective technical papers in front of the review panel consisting of Dr. Amit A. Deshmukh, HOD, EXTC Department as well as the faculty members. The final evaluation of the projects was done based on the execution of the proposed idea, its cost efficiency, punctuality and the overall market potential. Also, the top five teams were directly selected for competing in DJ Spark 2018, a state level technical paper presentation competition.

7. Technical Paper Submission

Date: 19th March, 2018

About:

The participants submitted their respective technical papers in IEEE Two Column format via email. These papers were evaluated for plagiarism and presentation.

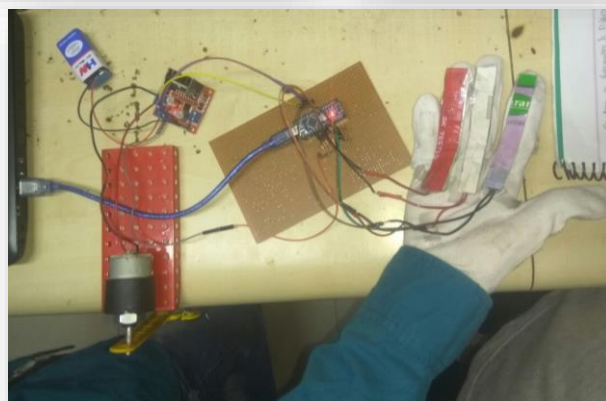
8. Strike Expo and Strike magazine unveiling

Date: 13th April, 2018

About:

26 Strike groups have been selected to present their projects in an event called 'Strike Expo' where the teams will compete with each other. The winning teams will receive cash prizes which will be revealed on the day of the event.

The Strike magazine will be unveiled on the same day, where the technical papers of the selected projects will be published. This magazine has its own ISBN number.



ICWiCOM 2017

Date: 19th & 20th January, 2018

Conducted By: Department of Electronics and Telecommunication

About the Conference:

After a span of three years, Department of Electronics and Telecommunication Engineering organized the International Conference on Wireless Communication (ICWiCOM) this year.

The purpose of this international conference was to encourage the growth of research activities among Professors as well as students in various areas of the wireless communication engineering field. Over 100 research papers were submitted for the conference, out of which 35 selected papers were presented at the conference.

Inauguration ceremony

The conference was inaugurated at BJ Hall with Dr. Surendra Pal, Vice Chancellor, DIAT Pune as the chief guest and Dr. Girish Kumar, Professor, IIT Bombay as the guest of honour. Mr. Bharat Shri Sanghvi, Vice President, SVKM, Dr. Hari Vasudevan, Principal, DJ Sanghvi College of Engineering and Dr. Amit A. Deshmukh, Head of EXTC Department, graced the inauguration with their presence.

Keynote Address

There were two keynote addresses. The first keynote address was by the Chief Guest, Dr. Surendra Pal (Vice Chancellor, DIAT, Pune) and the second was by the guest of honour, Dr. Girish Kumar (IIT Bombay). It covered a wide range of topics in fields such as microwaves, antennas, wireless networking and signal processing for communication.

Plenary and Technical Sessions

Plenary talks by eminent speakers such as Dr. S.P. Duttagupta, Professor at IIT Bombay, were also conducted on the research topics mentioned above. Engaging rounds of technical sessions were also conducted where research papers were presented by participants. The ensuing discussion and debates cultivated a rich environment of research-oriented thinking.



DJS ARYA (CANSAT)

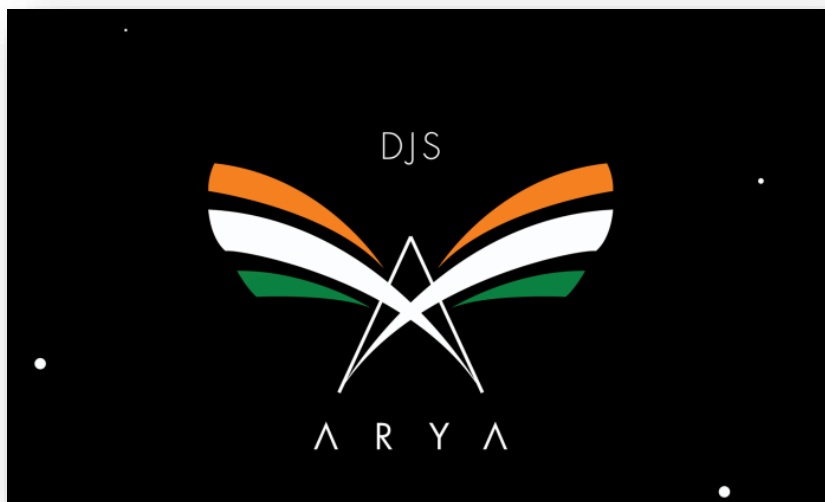
About CANSAT:

CANSAT is a student satellite project, which involves the design and manufacturing of a canister satellite taking into consideration the mechanical, electronics and telecommunication parameters, in order to make a fully functional atmospheric satellite. The goal was to make a satellite which can replace weather balloons, simultaneously simulating the drop of a delicate instrument onto another planet's surface along with logging the weather data during descent.

DJS Arya had participated in the CANSAT competition that is organised by the American Astronomical Society and American Institute of Aeronautics and Astronautics. Here, they got an opportunity to design and build a student satellite under appropriate guidance.

This competition bestows upon the students, a chance to represent their country and enhance various skills regarding the real life applications of a Canister Satellite. Moreover, it provides invaluable experience of working as a team at an international level.

The mission guide for the same had been conducted on 20 October, 2017, followed by the Program Design Review on 25 January, 2018 and it had concluded with the Critical Design Report, which was conducted on 19 March, 2018.



WEBSITE LAUNCH

IETE-SF launched its website as an initiative to provide easy access to information regarding the workshops, seminars and guest lectures conducted by IETE-SF, throughout the academic year. It also has reports and pictures of past as well as upcoming events.

The proceedings of the previous years' DJ Spark is available on the website. Moreover, the website is a host to a number of blogs on latest technical advancements, which are written by the students. The details of initiatives such as Component bank as well Book bank are available on the website.

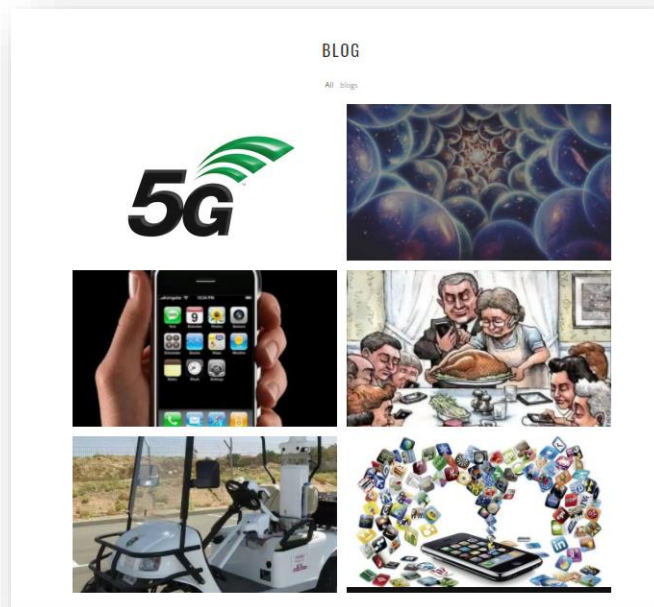


Website : www.djsceietesf.com

BLOGS

The IETE-SF website has a section dedicated to student blogs on technical topics. It includes blogs on a wide range of subjects like latest technological advancements in the field of electronics, telecommunication and software as well as reviews of latest gadgets and applications.

It was an endeavour to provide a platform for students to reach out to a wider audience and find people who share their interests.



5G – THE NEW GENERATION

With the 4G telecommunications systems now starting to be deployed, eyes are looking towards the development of 5th generation or 5G technology and services.

Although the deployment of any wireless or cellular system takes many years, the development of the 5G technology system is being investigated. The new 5G technologies need to be chosen, developed and perfected to enable timely and reliable deployment.

The new 5th generation, 5G technology for cellular systems will start to fruition around 2020 with deployment following on afterwards.

According to the Next Generation Mobile Network's 5G white paper, 5G connections must be based on 'user experience, system performance, enhanced services, business models and management & operations'.

And according to the Groupe Speciale Mobile Association (GSMA), to qualify for a 5G connection, it should meet eight criteria:

1. One to 10Gbps connections to end points in the field
2. One millisecond end-to-end round trip delay
3. 1000x bandwidth per unit area
4. 10 to 100x number of connected devices
5. (Perception of) 99.999 percent availability

BOOK BANK

IETE-SF provides a book bank facility for students where students can issue reference books of various subjects, at a nominal rate, for a semester.

This facilitates students to buy multiple reference books without having to actually buy them and helps them to explore subjects at a deeper level.



COMPONENT BANK

IETE-SF provides a component bank facility where students can buy electronic components which they require for building various projects for academic and extra-curricular endeavours. They can avail the facility by initially paying 50% of the cost and getting a refund of 20% on returning the components, provided that they are undamaged.

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No more buying expensive components

Borrow Use Return

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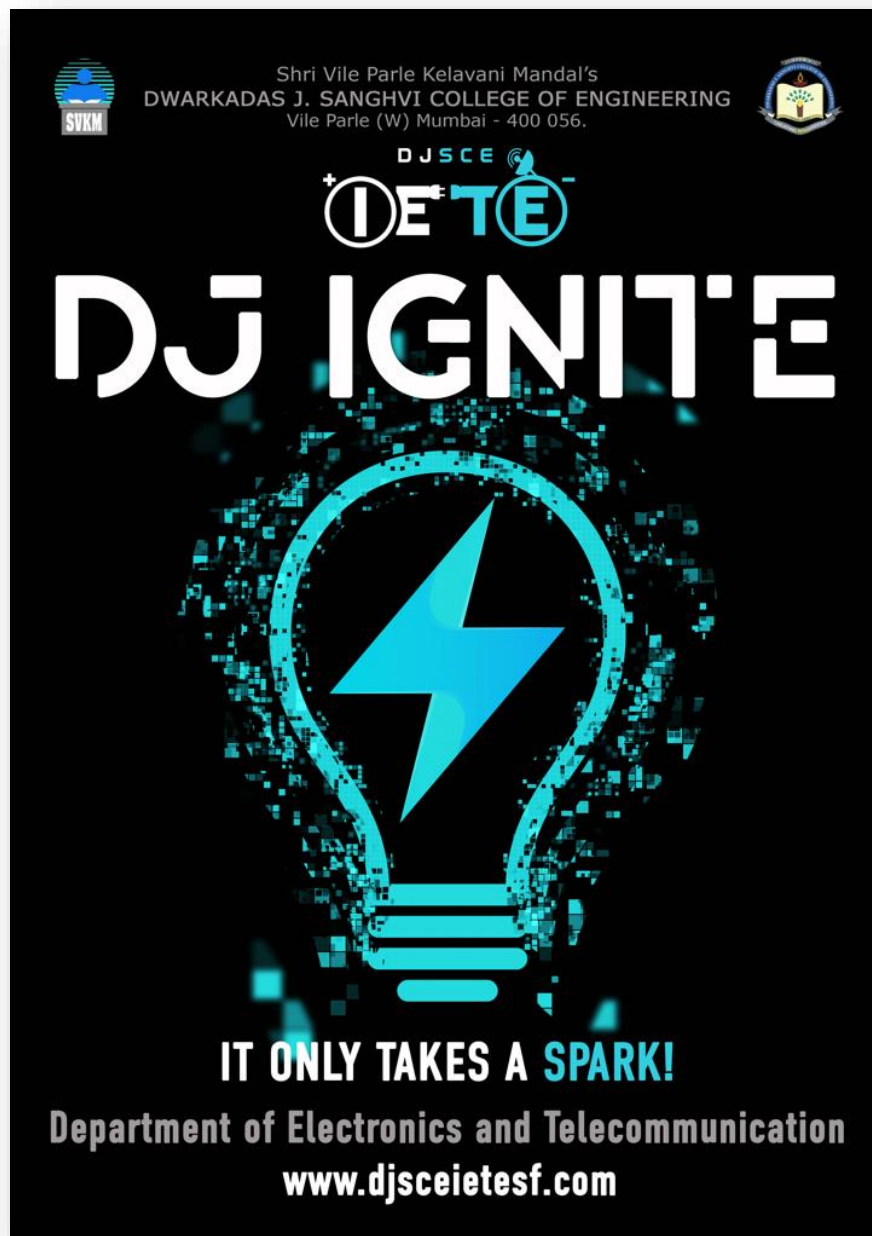
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DJ IGNITE

IGNITE is the official IETE-SF newsletter which contains articles as well as the reports of all the events conducted by IETE-SF throughout the year. Articles on Topics like big data analysis and Google's Keynote 2017 were covered in the 2018 feature. 'Into the future' section of IGNITE has articles dedicated to futuristic technology like augmented reality and automation.

DJ IGNITE has attempted to provide solutions to the modern day problems by focussing on different technologies considering economic sustainability and demographical terms, hence inspiring the minds of our readers.



INTERVIEW SECTION

IETE-SF conducted interviews of experienced professionals with an engineering background, who know the ins and outs of the industry. This included interviews of people who have pursued specialization in different sectors ranging from IES to the management field.

The interviews were conducted with an objective to make the students aware about the current scenario of the industry by the professionals who have first-hand knowledge in their respective areas of expertise.

IETE-SF also conducted interviews of the faculty of EXTC department of DJSCE with a view to know their opinion on how the quality of engineers can be improved and what can be done to ensure that the students enjoy participation throughout their college life.

Teachers provided valuable inputs such as providing more opportunities to students in the form internships and guest lectures.

DJ SPARK 2018

DATE : 13th April, 2018

DJ Spark 2018, organised by the department of Electronics and Telecommunication of D.J. Sanghvi College of Engineering, will take place on 13th April, 2018. The student chapter of IETE has organized this state level project competition, providing a platform to students to build up their technical skills in the form of projects.

The competition has received a wonderful response this year, boasting of having over 300 participants from all over Maharashtra. Around 90 participants are expected to be present on the day of the event and more than 85 papers had been submitted for assessment.

The inauguration ceremony for the event will be felicitated by Dr. Hari Vasudevan, Dr. A. C. Daptardar, Dr. M. J. Godse and Dr. Amit A. Deshmukh. The winning team will be awarded a prize money of Rs.12,000 whereas the first and second runner up teams will receive a cash prize of Rs.6,000 and Rs.4,000 respectively. In fact, DJ Spark's very own technical journal will publish the papers of the winning projects. Also, our magazines, DJ STRIKE and DJ SPARK will be released on the day of the event. Moreover, we will also be releasing DJ IGNITE, a newsletter that enables students to find problems to modern day technological difficulties. The final demonstration of DJ STRIKE 2017-18 will be held on the same day.

We believe DJ Spark will be a huge success this year and all the participants will have upgraded their project building skills and technical writing skills throughout the course of the event.