



ASSOCIATION BROCHURE

2017 - 18



IEEE STUDENT BRANCH
DELHI TECHNOLOGICAL UNIVERSITY



ABOUT IEEE DTU

IEEE DTU Student Branch(formerly IEEE DCE), under the aegis of IEEE(Institute of Electrical and Electronics Engineering) is the oldest student branch in Delhi Section with a glorious history of over three decades.

Under the invaluable guidance of DTU Vice Chancellor Prof. Yogesh Singh, IEEE DTU has emerged as one of the most active and innovative student branches in India.

IEEE DTU organizes a plethora of events round the year such as TECHWEEK, REPERTOIRE and the annual technical festival TROIKA to instill a scientific temperament in students and to cater to the needs of their inquisitive nature.

IEEE DTU is also renowned for its publications- ECHO, a magazine for freshers, IOTA, the annual technical magazine, TRIGGER, the TROIKA souvenir, and The Troika Times.

In the year 2012, one of the commendable feats of IEEE DTU Student Branch was the organizing of ISSET(International Symposium on Standards in Engineering & Technology), which provided a platform for student researchers, besides academic and professional experts, to share and exchange their ideas.

IEEE DTU student members get a chance to be in touch with the latest technical information, research and career opportunities. Not only do they take part in several events, but also get a chance to organize them with their young and capable hands.

“Toil to attain thy heights”. By following this mantra with heart in work and mind in place, and feet firmly on ground, IEEE DTU is poised for a quantum leap forward.

BRANCH COUNSELOR ADDRESS

Dr. J Panda



Branch Counselor,
IEEE DTU

IEEE DTU student branch (formerly IEEE DCE), under the aegis of IEEE (Institute for Electrical and Electronics Engineering) is the oldest student branch in Asia Pacific region and has emerged as one of the most active and innovative IEEE student branches in India, leading Hub 3 in the Delhi Region. It has fostered technological innovation and excellence in its students for over three decades and it still continues to do so. Established in 1983, it has grown so much that now we have strength of over a 500 active student members.

As the branch counselor, I feel proud in saying that the events organized by IEEE DTU cater not only to the inquisitive nature of our students, but also instill a scientific temperament in them, to help them become well rounded professionals. Starting from August, the students organize TECHWEEK, where they demonstrate their skills and successfully teach others too. This is followed by REPERTOIRE, the annual techno managerial extravaganza in October. Then in February, the students organize TROIKA, the annual tech-fest of the branch, setting a higher benchmark for themselves as well as for others as they strive to make the succeeding edition of TROIKA even better. I watch newcomers learning from scratch and getting involved in the organizing and learning process so well that they become capable of taking up larger responsibilities and teaching others what they have learnt. In this cycle of excellence, I am proud to say that the branch evolves and grows every year and each change is for the better.



CHAIRMAN'S ADDRESS

Chandan Barnwal



Chairman
IEEE DTU

Rated amongst the top-notch technical institutions in India, Delhi Technological University (formerly Delhi College of Engineering) aims to create and nurture world class engineers with impeccable technical knowledge; and supporting DTU in this very endeavour, is the DTU student branch of IEEE.

IEEE is the world's largest professional association for the advancement of technology. It is one of the leading standards-making organizations in the world. The IEEE DTU Student Branch is the oldest student branch in the Delhi region which also enjoys the highest membership. IEEE DTU has also received accolades on a global scale for its efforts, including the Darrel Chong Student Activity Award, 2015.

Throughout the academic year, IEEE DTU organizes a string of events, both competitive and educational. The activities not only provide a platform for the students to showcase their innovative ideas, but also help inculcate technical knowledge.

With each passing year, IEEE DTU scales new heights in both conceptualization and execution. We try to balance the core technical aspect of our society with the more management oriented side of things and will continue to do so. We look forward to your honored association with us for the coming academic year and beyond. With your esteemed support, we are sure to continue the tradition of excellence at IEEE DTU.

PAST SPONSORS



MOTOROLA

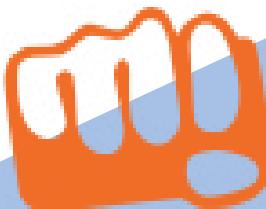
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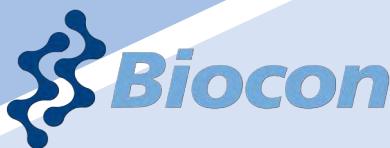


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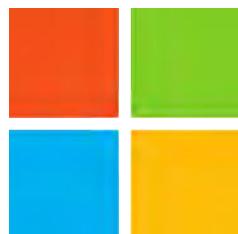
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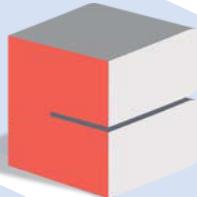
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YEAR LONG EVENTS

IEEE and Delhi Technological University (formerly Delhi College of Engineering) came together in 1983, giving birth to IEEE DTU Student Branch - the oldest student branch in the IEEE REGION 10 (Asia -Pacific) and the largest student branch in the IEEE Delhi Section. IEEE DTU Student Branch has also been awarded the 'Darrel Chong Student Activity Award 2016 (Bronze Medal)'.

IEEE DTU August- September '16 Activities

The first phase of the journey, i.e. the month of August and September was replete with a huge variety of technical as well as non - technical activities.

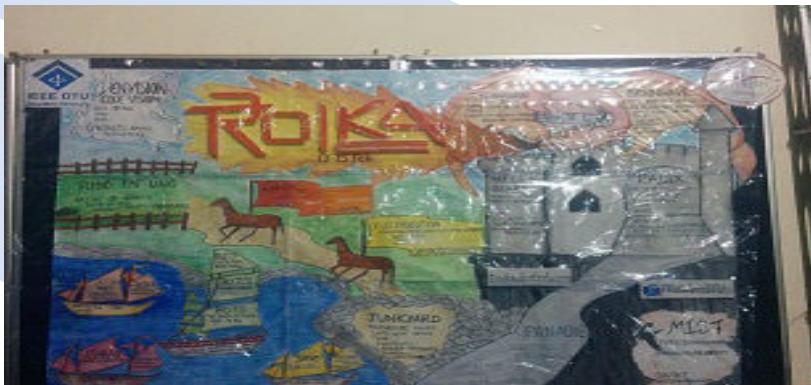
Special Interest Group Workshops (SIGs)

Senior members take special classes for their juniors, mentoring them in various technical skills throughout the academic year. The various SIGs (Special Interest Groups) nurture the skills of a student from beginner to advanced level. The domains of SIGs are Internet of Things, Machine Learning, Robotics, Solid works CAD Modeling, Graphic Designing, Animation, Operation Support Systems, Web Designing, Embedded Systems, Basic Programming Concepts, Advanced Programming Concepts, and VLSI.

IEEE DTU November '16-March '17 Activities

Android Development Workshop

This 16-hour Android Development workshop was formulated by Coding Blocks and was conducted by Arnav Gupta in October 2016. It covered all the details about basic and advanced concepts related to Android app development and consisted of hands-on sessions guiding participants through the various steps in creating an Android app. The participants were provided with exclusive development kits at the end of the workshop.



TROIKA 17

The much anticipated Troika 2017 was held across a span of three days from 10th to 12th February 2017. This momentous fest attracted a record participation of over 10000 students.

T-Hacks, Electrocution, Radix, Brainwave, Design Pro, Technovision, Bits-Bytes-Bots, Mist, S-PAVe, S-PAC, Bulls N Bears, Todo-En-Uno were some of the events that took place.

Mini-events and workshops, which are a run up to the main events of Troika 2017 were organized in the third and fourth week of January to generate curiosity among students about the events. Mini Brainwave, Mini Radix, Mini Bits, Mini Design Pro, Mini Todo and Mini Electrocution were organized.

IEEE DTU April'17 Activities

PROGRAMMING INTERVIEWS BOOTCAMP

An extensive 4-day Programming Boot camp, over 2 consecutive weekends, was organized by the 4th year Student Members of IEEE DTU, who were already placed in leading software companies. They gave out interview tips and focused on practical demonstration of PLC modules and their operation.

IEEE DTU PUBLICATIONS

For the academic session of 2016-17, IEEE DTU student branch released 4 publications:

- IOTA: Acronym for "Incredible Omnibus of Technical Achievements' IOTA is the annual technical journal of IEEE DTU. The aim of this journal is to create a basis upon which further technological advancements can be built for betterment of mankind.
- TRIGGER: Trigger is the annual Troika Souvenir. It gives the complete summary of the happenings of Troika, from statistics such as student participation and footfall, to acknowledgements for everyone involved in making of this technical extravaganza.
- TTT: Short for The Troika Times, it is the informal magazine of IEEE DTU, released on a daily basis during Troika.
- ECHO: Informal magazine published with the aim of welcoming juniors and telling them about IEEE and DTU ..

CONCLUSION

Under the guidance of our highly supportive and dynamic branch counselor, Dr. Jeebananda Panda, our team of enthusiastic and motivated students has always strived to break our own records and create new milestones. The academic year of 2016-17 has been highly rewarding for the entire IEEE DTU Student Branch in terms of the technical knowledge and organizational expertise gained. IEEE DTU shall always endeavour to deliver its best and realize the mission and vision of IEEE with never-ending dedication, sincerity and enthusiasm.

REPERTOIRE



Repertoire is IEEE DTU's annual tech no-management festival that is aimed at bringing out the managerial side of the usual techno-geeks, and giving them a chance to develop their business acumen with a whole new set of technical skills. This 3-day festival comprises of the following events:

- Panache – Multimedia quiz
- S-PAVe – B-Plan and quiz
- Vihaan - An event by WIE
- Junkyard - Work your way out of the junk

Panache

- A one-of-a-kind multimedia quiz, Panache is the biggest event of Repertoire.
- Aimed to test the Quizzer's knowledge based on everything under the sun, the multi-level quiz features questions from fields like science, technology, business, politics, current affairs, mythology, entertainment, literature, sports and history.
- Students in various universities from all across India take part in it, Panache provides a brilliant environment for both beginner and seasoned quizzers.

S-PAVe

S-PAVe is the prime event of the management which consists of several marketing and analytical events, carefully constructed to test your business acumen and push you to your limits. S-PAVe consists of the following events:

- Business Quiz
- Case Study Competition
- Industry Analysis
- Marketing and Investment Strategy Showcase
- Group Discussions

REPERTOIRE

Junkyard

- Junkyard assesses a participant's skill to ingeniously utilize the provided junk and transform it into a mechanically feasible and innovative contraption.
- The team activity is an engaging and interactive experiential instructional game that effectively improves the effectiveness of team and individual innovation skills.
- The event is carried out in levels.
The element of time constraint further adds to the test of creativity and resourcefulness.



Vihaan is organized under the flagship of IEEE DTU Women In Engineering (WIE) Affinity Group, the largest professional organization dedicated to encourage women to take up STEM Fields.

In a one-of-its-kind 24 Hour Hackathon, Vihaan challenged the creative potential of the participants leading to innovative solutions of existing problems.

With at least 1 female developer in each team, **Vihaan successfully opened up avenues for budding technocrats.**



Key Highlights from Vihaan'17



- **Huge Participation**

The event witnessed a participation of 200+ developers and brought out the potential innovator, hacker, maker and designer in the participants.

- **Valuable Partnerships**

We are grateful to our partners for continuously supporting us in our ventures. Having partnerships from Anemoi Technologies, Gitlab, Balsamiq, Flock, AdvantEdge, and numerous other firms helped us in ensuring a unique experience for the participating teams.

•Unique Prizes and Media Coverage

Having prizes worth INR 20 Lakh+, Swag worth INR 1 Crore+, Cash Prizes of INR 40000, Smart Devices and Incubation opportunity for the winners, Vihaan'17 was featured in renowned media portals like Indian Express, Business Standard, NewsX, Millennium Post etc.



• Honorable Judges

We were honored to have Mr. Saurav Tomar, recipient of Amazon's Research Grant, Miss. Dolly Bhasin, one of the first Indian women in the IT Sector, having an ICT Industry experience of 32+ years., Mr. Ashwin Sinha, Investment

Analyst at AdvantEdge and Mr. Kanishk Kumar, Senior Associate Director-Enterprise Sales, Flock as the judges for Vihaan'17. Their vision, enthusiasm and passion for technology acted as an unparalleled guide for the participating teams.

Vihaan'17 created an uproar in the developers' community and carved a niché for itself, and IEEE DTU.

TROIKA



TROIKA is the annual Technical Festival of IEEE DTU Student Branch. It is held in the beginning of February. Lined up with abstract and artistically conceptualized technologically exhausting and entertaining events, TROIKA has witnessed increasingly huge participation from all over India every year.

T-HACKS

- An amalgamation of Software and Hardware 24 Hour Hackathon where all participants are required to develop a product which maybe a Mobile App, a Web App, a Hardware Device or a combination of both of them.
- It is an event that allows hackers of all skill levels to explore their creative and engineering talents. Hackers will be provided the space and equipment (in case they choose to develop a hardware).
- The equipment partners shall be sponsoring the prizes to the teams that develop the best product using the respective equipments of the sponsor.
- Participants, in teams of 2 to 4 shall be encouraged to let their imaginations run wild, using a micro-controller kit or repurposing existing hardware for unique applications.

Radix

- It is one of the most popular events of Troika.
- It is conceptualized to test the bot engineering skills such as designing, construction and operation of robots.
- Events such as Robo-wars, Robo-Race and Line followers have been special highlights of Radix.
- Last year Radix saw more than 600 registrations from all over the country.



Bits-Bytes-Bots(BBB)

- BBB is meant for programming enthusiasts. It challenges the capability of the best of the programmers. They are judged on the basis of their coding skills.
- Bits-in this competition on-spot challenge is thrown at competitors. They have to solve the problem with their creative solutions within the limited time period.
- Bytes-it is an on line programming challenge.
- Bots-this competition is played in pair of man and computer intelligence. In this participants code for match in which their code compete with their opponent code.



Bulls N' Bears

- BnB is a virtual on line stock market experience which tests one's judiciousness, wisdom, analytical skills and resourcefulness.
- Rules are simple. Who earn the most wins the game. All you need to do is cautiously invest money in shares.
People all across the world compete to get the title of the supreme investor.
- This competition goes on for three days giving you a real-life experience in stock market to try the budding investor inside you.

Mist

- This is the on line treasure hunting event which was introduced in TROIKA'11.
- This event is for those who think that their minds are no less than Sherlock's. This event has several levels that are revealed step by step with increasing difficulties. Around 20,000 participants from over 44 countries use their minds to solve the given mysteries.
- These competitive and challenging levels force the mind to think to a new level and solve these out of the box questions.

Brainwave

- Brainwave is a problem solving event that consists of hardware implementation and software simulation. The name speaks for itself; participants use their grey matter and compete against each other in this stressfully exciting competition. It is based on meticulously crafted problems with real world implications. Brainwave is divided into two parts: 1. Hardware Challenge 2. Digital Image Processing

Design Pro

- Design Pro is a platform where the most imaginative mind clash with each other in the most elegant manner.
- Illustrator, Adobe Photoshop, Adobe After Effects are just a few of your handy tools if you want to make it through the challenge.
- Design-O-Thon, Ani-mission, 3D-Pro and Sketch-It are included under the canopy of Design Pro.

Technovision

- Technovision is the signature event of IEEE DTU. It is a platform for all the engineering and research enthusiasts to present their technical paper and get it published under IEEE.
- The participants can present their research papers, which can range from core engineering to theoretical subjects, and they get a chance to get it published under the renowned journal.
- The students are judged on the basis of the authenticity of the chosen topic, the originality of the research, the experimental confirmations and the practical implementation of the ideas.

Electrocution

- The hardware implementation challenge organized under IEEE-PES, electrocution puts to test the 'potential' of the electrical engineers of tomorrow.
- The participants are given a predefined hardware challenge as well as on the spot circuital challenge.
- The event focuses on practical implementation of the erudite minds in the field of electrical engineering.

S-PAC

- Student Professional Awareness Conference organized to instigate the vast opportunities in the tech as well as non-tech fields open to the fresh minds.
- Various speakers present the students with their life experiences and expertise in the specific field. Students get the opportunity to confer their doubts and dilemma with them in a comfortable manner.
- The experts represent fields such as corporate sector, education and research, entrepreneurship to name some. Eminent speakers like Mr. Sanjeev Arora, Vice president of ABB India Ltd, Mr. Rohan Bhargava, Co-Founder of Cashkaro.com, Mr. Suresh Raj pal, Former President, HP India, Mr Kishore Jayaraman, President Rolls-Royce India and Naveen Kasturia, Actor and Assistant Director graced the event with their presence and showered them with knowledge.



PUBLICITY COVERAGE

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Jamia Millia Islamia University
Jawaharlal Nehru University
Guru Gobind Singh Indraprastha University
NIT-Delhi

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Anna University
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Thapar Institute of Engg. & Technology
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Manipal Institute of Technology
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IMS Engineering College
Krishna Engineering College

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IEC College of Engg. & Tech.
IILM, GNIT, Skyline, MGM, Llyod

ASSOCIATION SLAB

We are looking forward to your co-operation and support to broaden the horizons of our events. For convenience, we are formulating the summarized offers in the following form. The detailed offers are provided later in the draft. With your support, we hope to make our events a huge success.

Events	Troika	Repertoire + Techweek
Title	5L <ul style="list-style-type: none"> • 6 Premium event sponsors • 6 Associate event sponsors • troika.ieeedtu.com & and souvenir presentation • SYNERGY (Canopy) & Prize Sponsor during troika'18 • Troika'18 as 'Company Presentation' • S-PAC* Presentation (45 min.) • 3 Premium event sponsors • 3 Associate event sponsors • Troika in 'Association with the Company & souvenir presentation • troika.ieeedtu.com • SYNERGY (Canopy) & Prize-Sponsor during troika'18 • S-PAC Presentation (35 min.) 	3L <ul style="list-style-type: none"> • 3 Premium event sponsors • SYNERGY (Canopy) & Prize Sponsor during repo'17 • Repo 2017 as 'Company Presentation' • Premium event sponsor of Panache • Premium event sponsor of S-PAVe & Bulls N Bears • Repo in 'Association with the Company' • Premium sponsor of Panache • Premium sponsor of BnB • Premium sponsor of S-PAVe
Premium	3L <ul style="list-style-type: none"> • 2 Associate event sponsors • 1 Premium event sponsor • troika.ieeedtu.com & souvenir presentation • SYNERGY (Canopy) & Prize Sponsor during troika'18 • S-PAC presentation (25 min.) 	1.5L <ul style="list-style-type: none"> • Workshop organised by the company during tech week • Subsequent workshops all across the year • Publicity
Associate	2.5L <ul style="list-style-type: none"> • 2 Associate event sponsors • 1 Premium event sponsor • troika.ieeedtu.com & souvenir presentation • SYNERGY (Canopy) & Prize Sponsor during troika'18 • S-PAC presentation (25 min.) 	1.5L <ul style="list-style-type: none"> • Workshop organised by the company during tech week • Publicity

Year Long Association

Title

5.5L

- Troika'18 as IEEE-DTU 'Company Presentation'
- Premium Sponsorship in 3 events of Troika , 2 of Repertoire and 1 workshop in Tech week.
- Associate sponsor of Repertoire.
- S-PAC* Presentation (45 min.)
- SYNERGY (Canopy) and Prize Sponsor during Troika'18.
- troika.ieeedtu.com and souvenir presentation.
- Year long publicity(banners, pr board, question papers, covering all social medias including FB, Twitter, Insta etc).
- Troika'18 in association with Company.
- Premium Sponsorship of 2 events in Repertoire and 1 in Troika.

Premium

3.5L

- Associate sponsor of 5 events in Troika'18.
- S-PAC* Presentation (30 min.)
- SYNERGY (Canopy) during Troika'18.
- www.troika.ieeedtu.com and souvenir presentation
- Year long publicity(banners, pr board, question papers, covering all social medias including FB, Twitter, Insta etc)

Associate

3L

- Premium Sponsorship of 2 events in Troika'18.
- Associate sponsor of 4 events in Troika'18.
- S-PAC* Presentation (15 min.)
- troika.ieeedtu.com and souvenir presentation.
- Prize Sponsor during Troika'18.

EXTRAS



S-PAC

S-PAC (Student Professional Awareness Conference) is a special interaction facility with students from elite technical and non-technical colleges from all over India during our international industry event during TROIKA.

It aims at equipping students with the knowledge of how the industry functions, personal experiences from which the students can learn and also helps students become aware not only of the new technologies of that company but also about the skills that they are required to develop to find a place in the company.

Trigger

It is our annual Troika souvenir, which is sent to all participating colleges, industries and academic institutes.

About 3,000 copies are printed every year.

SYNERGY (Canopy)

During Troika, about 10,000 students participate in addition to representatives from the industry and academia.

The following clauses are offered:

- A stall is setup for display of products and services of the Company during Troika 2018.
- The Company can distribute promotional material to the participants during Troika 2018.

ASSOCIATION DETAILS

- The TROIKA, REPORTOIRE and TECHWEEK posters, banners and every other promotion including social media like FB, Twitter, Insta shall carry the name of the company.
- All event specific promotion and invitations shall carry the name and/or logo of the company.
- The media promotion of the Company shall be associated with the promotional campaign conducted by IEEE Student Branch, DTU.
- The Company shall get a mention with a company logo and a link in the sponsors' section of our website troika.ieeedtu.com.
- The company shall be provided with access to the student database compiled during the academic year and shall be given access to advertise on the IEEE mailing groups of DTU till the end of academic year 2018.
- The Company shall be provided with special features on our web-site troika.ieeedtu.com to support its products and services.
- Experts & officials from the Company shall be invited on the judging panel of the event (if any).

S-PAC Presentation & SYNERGY (Canopy) with Souvenir Ad	1,00,000/-
S-PAC Presentation	50,000/-
SYNERGY (Canopy)	50,000/-
Souvenir Ad (TRIGGER)	50,000/-



IEEE DTU
Student Branch

**Delhi Technological University
(Formerly Delhi College Of Engineering)**

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IEEE STUDENT BRANCH
DELHI TECHNOLOGICAL UNIVERSITY