



# Annual Report

FINANCIAL YEAR: 2018-2019

IEEE Student Branch **NIT Durgapur**

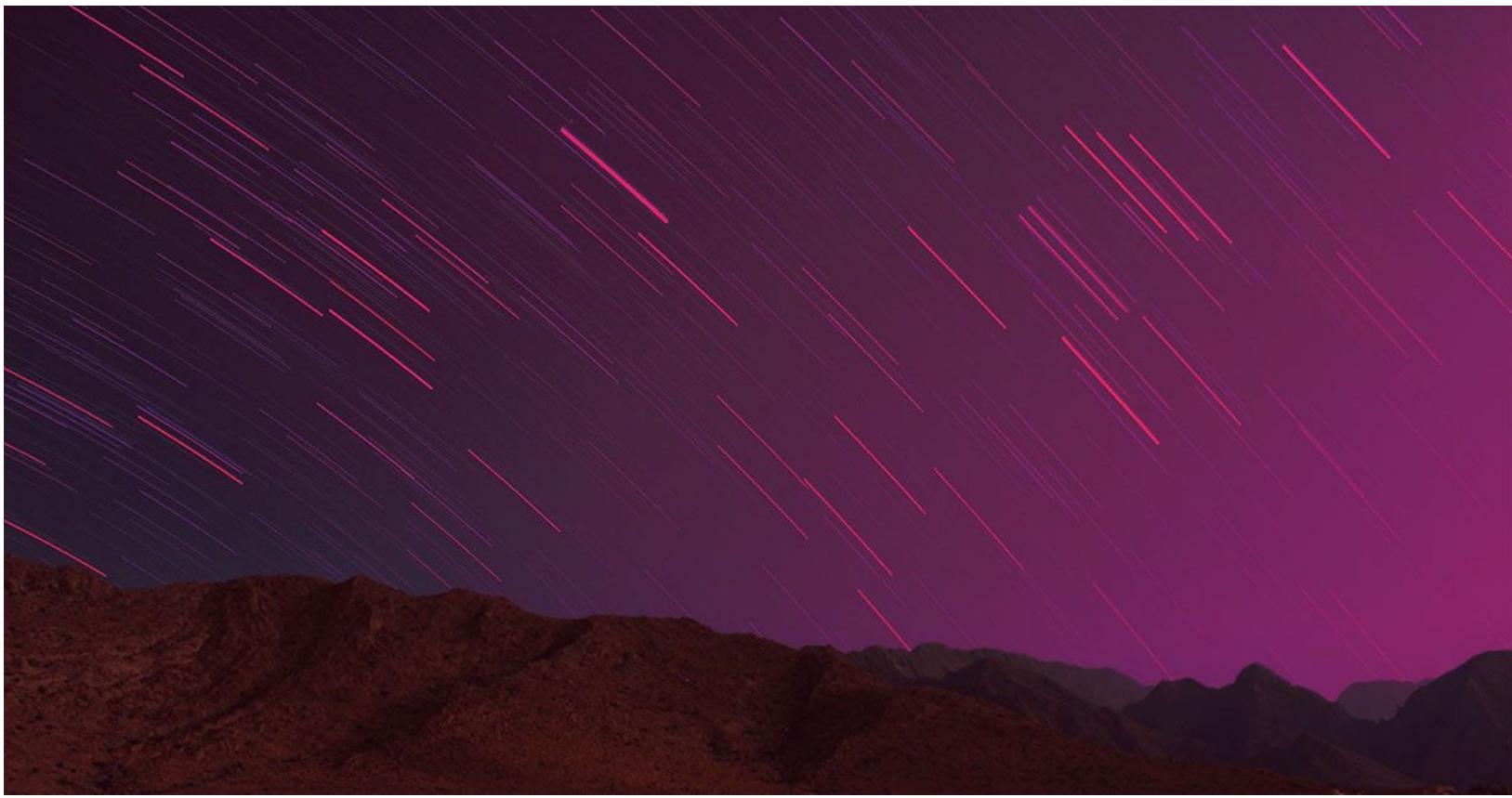


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## IEEE Student Branch NIT Durgapur

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IEEE SB NIT Durgapur is a society which aims to promote research related activities among the youth of the campus. The society as a group comprises of keen researchers, spellbinding speakers, creative designers, and enthusiastic and hardworking members. We are a direct handshake to IEEE, an international organization which, every year, gives young innovative brains worldwide a chance to come forward with their ideas for innovation and present it to the world. We believe knowledge can be the key to revolution. The more we learn the more we can build and mend. Such innovations can help revolutionize human lives and bring forth a new era of technology leading to a better future for the world and the human race.

## Events at a Glance

#	Event Name	Speakers	Code	Date	Venue	Count
1.	Demystifying the World of Research	Prof. Rowdra Ghatak, ECE Prof. Aniruddha Chandra, ECE Prof. Nirmal Kumar Roy, EE Prof. Animesh Datta, CSE	DTWR	11/04/2018	CV Raman Auditorium, NAB	80+
2.	The Internship Bootcamp	Saurav Paul, ME Gaurav Kumar, MME Ushasi Ghosh, ECE Anushka Ghosh, BT Arunava Manna, EE Biswaranjan Pati, ME Aniq Ur Rahman, ECE	IBOOT	09/08/2018	DM Sen Conference Hall	140+
3.	Ideathon	Mr Abhishek Nandy Prof. Nirmal Kumar Roy, EE Aniq Ur Rahman, ECE	IDEA	31/08/2018	CV Raman Auditorium, NAB	90+
4.	Self Driving Vehicle Workshop (Collab: SAE)	Wasiquul Haque, EE (SAE) Aniq Ur Rahman, ECE Abhishek Singh, CSE	SDV	30/09/2018 - 01/10/2018	Student Activity Centre	180
5.	MATLAB Mastery	Monsij Biswal, ECE Animesh Datta, ECE	MM	22/01/19, 29/01/19, 05/02/19, 12/02/19	LG 21, EC 31, EC Seminar Room	150+
6	Online Tech Quiz (Collab: QuizInc)	Subhayan Akhuili Rohan Choudhary	OTQ	01/02/2019 - 02/02/2019	Online	200+
7.	Art of Scientific Writing	Prof. Aniruddha Chandra, ECE Aniq Ur Rahman, ECE	AOSW	31/01/19	CV Raman Auditorium, NAB	80+
8.	Game Engineering (Collab: GLUG)	Abhilash Majumder Mr. Khagendra Kumar Mr. Mihir Solanki, Student Ambassadors Unity Technologies	GE	07/03/19	Albert Einstein Auditorium, NAB	150+
9.	Google Cloud Jam	Mr. Abhishek Nandy Mr. Risab Biswas Ms. Debasree Chanda Mrs. Sumitra Bagchi	JAM	14/03/19	Albert Einstein Auditorium, NAB	120+

## Executive Member List

### Final Years: Executive Officers

SI No.	Name	Email-ID	Membership ID.	Dept.	Post
1	<b>Aniq Ur Rahman</b>	aniqurrahman@ieee.org	93892320	EC	Chair
2	<b>Arunava Manna</b>	arunava2210@gmail.com	94502133	EE	Vice Chair
3	<b>Jeet Sen Sharma</b>	jeet.sensarma@gmail.com	94754198	EC	Secretary
4	<b>Neeraj K. Prajapati</b>	nkp@ieee.org	95090624	EC	Treasurer
5	<b>Akash Pratim De</b>	akashpratim_de@yahoo.com	94724349	EE	Webmaster
6	<b>Ushasi Ghosh</b>	ushasighosh@ieee.org	94409195	EC	Convener
7	<b>Arindam Dutta</b>	arindamdutta1996@gmail.com	94798604	EE	Sponsorship Chair
8	<b>Phaneendra C.</b>	chaduvulaphaneendra@ieee.org	94792725	EC	Logistics Chair
9	<b>Sankalita Chakraborty</b>	sankalita97@gmail.com	94753687	CS	Events Chair
10	<b>Sohom Mukherjee</b>	sohom31011997@gmail.com	94551688	EE	Joint Secretary
11	<b>Tanya Barnwal</b>	tanya.tanyabarnwal@gmail.com	94790020	EC	Co-Convener
12	<b>Madhurima Paul</b>	madhurima.paul19@gmail.com	94816239	EC	Publicity Chair

### Third Years: Senior Executives

SI No.	Name	Email-ID	Membership ID	Department
1	<b>Abhishek Singh</b>	abhishek.nitdp.98@gmail.com	94422413	CSE
2	<b>Amitava Das</b>	amitava507@gmail.com	--	EC
3	<b>Animesh Datta</b>	animesh.suman98@gmail.com	95063999	EC
4	<b>Anumoy Ganguly</b>	anumoy99@gmail.com	95090451	MME
5	<b>Tamoghno Das</b>	tamognodas21@gmail.com	95087522	EC
6	<b>Subhadeep Chandra</b>	subhadeepchandra67@gmail.com	95087628	EC
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8	<b>Ishani Nag</b>	nagishani2@gmail.com	--	EC
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## Second Years: Junior Executives

SI No.	Name	Email-ID	Ph. No.	Department
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## First Years: Volunteers

SI No.	Name	Email-ID	Ph. No.	Department
1	<b>Mohit Kumar Kochar</b>	mohitkochar0203@gmail.com	6291159423	EE
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9	<b>Shalini Satapathy</b>	satapathyshalini21@gmail.com	8280636281	CE

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## Administrative Body

### Chief Patron:

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Director, NIT Durgapur  
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### Counselor:

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### Faculty Advisor:

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Dept. of Electrical Engineering  
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**Dr. ANIRUDDHA CHANDRA**  
Dept. of Electronics and Communication Engineering  
(+91)9434788106

### Student Officers:

<b>Mr. Aniq Ur Rahman</b>	Chair
<b>Mr. Arunava Manna</b>	Vice Chair
<b>Mr. Jeet Sen Sarma</b>	Secretary
<b>Mr. Neeraj K. Prajapati</b>	Treasurer
<b>Mr. Akash Pratim De</b>	Webmaster

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Coming together is a beginning. Keeping together is progress.  
Working together is success.

-Henry Ford

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## Demystifying the World of Research

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IEEE Student Branch NIT Durgapur conducted its very first edition of a one-day seminar, ‘DEMYSTIFYING THE WORLD OF RESEARCH’ on 11th of April 2018 in C.V. Raman auditorium from 4:00 PM to 8:00 PM that aimed for the Development of a scientifically literate society. The seminar was attended by numerous undergraduate, postgraduate and some Ph.D. students from different colleges including the institute itself. The response was overwhelming as it spotted more than 115 enthusiastic participants.

The event was started by our chair Aniq Ur Rahman who gave the complete layout of the seminar and cleared the objective of IEEE SB NIT Durgapur for hosting this technical symposium. We had really knowledgeable speakers with us, who have made outstanding contributions in the field of technical research and innovations.

The first presentation was given by Prof. Rowdra Ghatak from electronics and communication engineering department, who made students understand what research is and introduced the critical issues related to research. He introduced to research as a

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non-philosophical, uncertain, warm and involving world which feeds on curiosity and stated that those are the things that make it interesting. He also gave a brief idea about different research methods and procedures for designing and conducting scientific research.

Our second speaker was Prof. Aniruddha Chandra again from the department of electronics and communication engineering who helped students to gain an overview of different types of research designs and methods (quantitative, qualitative, and mixed methods research), and develop the competencies to design and conduct research. His presentation was really informative and helpful for the students.

Next speaker was Prof. Nirmal Kumar Roy from the Electrical Engineering department, he is also the counselor of IEEE SB NIT Durgapur. He highlighted how to develop the ability to critically analyse research literature, gain the competence to analyse research reports, and also how to develop the ability to write research proposals and research papers. He also shared his experiences in the field of research with the students.

We then had Prof. Animesh Datta from the computer science department who gave presentation on ‘Think Beyond Clerical Job: As an Engineer’, it aimed at familiarising students with different research opportunities and facilities, which can help them to determine an area of interest, discover their passion for research and help them to jump-start their careers as researcher or pursue higher studies, unlike most of the engineers.

In the end, the event was a great success as it successfully catered possibilities so that one can start dreaming or take leaps of imaginations, because “*... Dreaming, after all, is a form of planning*”.

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*Clockwise from top:* Founding student members of IEEE SB NITD [1]. Prof. Rowdra Ghatak delivering the inaugural speech [2]. Attendees at the event [3].

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## Internship Bootcamp

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The internship you pursue is going to be one of the most important building blocks of your career foundation. So shouldn't it match up to your expectations?

IEEE Student's Branch NIT Durgapur organised "The Internship BootCamp", for consecutive two days on the 8th and 9th of August 2018 at DM Sen Conference Hall NIT Durgapur. The workshop aimed at establishing a rigorous exposure of students to research, undergrad projects, and internships in India and abroad. On the first day, the workshop started off with a brief introduction about the IEEE society, its objectives and its impactful mission in providing students a platform to establish their careers.

It was followed by a brief presentation on the various foreign internships open to Indian students, their eligibility criteria, and the respective procedures. Having spiked the audience's attention with the right amount of motivation, we launched our 'Experience Talks' session where we brought in some of our Final Year students who had bagged foreign internships last year and were associated with multiple research projects. Sourav Paul from the Mechanical Engineering Department enlightened the audience on his experience of achieving the prestigious DAAD WISE scholarship to intern with a public university in Germany. Similarly, Gaurav Kumar from the Metallurgical and Materials Engineering Department interned with University of Parma, Italy and Anushka Ghosh from Department of Biotechnology interned with the University of Edinburgh, Scotland. Then Ushasi Ghosh of Electronics and Communication Engineering and Biswaranjan Pati from Mechanical Engineering spoke about their experience of doing their project through the SURGE programme of IIT Kanpur. Arunava Manna from the Electrical Engineering department who is also the vice chair at IEEE SB shared his experience of interning with NTU Singapore. Lastly, Aniq Ur Rahman, the chair of IEEE SB NIT Durgapur shared his experience of his internship at the CERN, Geneva.

The second day began with the workshop on SOP writing for the various research internships and further fine-tuning points on a good resume. The workshop was the first of many milestones set out ahead in order to establish proper undergraduate research in our college.

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**Clockwise from top:** Attendees listening to our speakers [1]. IEEE Chair Mr. Aniq Ur Rahman delivering a talk on resume writing [2]. IEEE Executives helping out attendees [3].

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First comes thought; then organization of that thought, into ideas and plans; then transformation of those plans into reality. The beginning, as you will observe, is in your imagination.

-Napoleon Hill

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## Ideathon

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Every great thing in this world came from a simple idea, whether you take any invention, discovery or even any theory came from an idea. Every great scientist, leader or personalities gave importance to ideas because they know how these ideas only create chances for great revolutions.

Keeping this in mind IEEE STUDENT BRANCH OF NIT DURGAPUR had organised an event called “IDEATHON”. This event was conducted to give a platform to our students to put forth their innovative ideas of creating a good future.

This event was conducted on 31st August 2018, at CV Raman Auditorium, NIT Durgapur. The topic that was to be discussed was “TECHNOLOGIES FOR A SUSTAINABLE FUTURE”. The seminar was led by Mr. Abhisek Nandy, who is an Application Architect AI and IoT at Prescriber.360. He is also an Intel Black Belt Developer awardee, only the 2nd in India. He threw light on various topics of his field. He discussed topics like implications of IoT and on open Vino toolkit. He really got all the students present there interested and had formed a new enthusiasm for learning the skill of artificial intelligence and IoT within them.

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He also discussed how we can inculcate new skill and sharpen our already existing skills in the domain of technological development. He also told us about various national and international competitions and conferences where we can learn, grow, develop and show our talent to the world.

Another great speaker graced us to share his knowledge and exploration within his domain of research Prof. N.K. Roy. He shared his experiences. He also gave importance to education and how to get better educational resources. He spoke about using IoT for E-learning resources which would provide better accessibility of the educational resources all over India.

The next phase of the seminar was the most exciting part. It was the part where students came and put forth their ideas for the given theme. The students came up with amazing ideas which put our guests in amazement of the power and imagination of young minds. This interactive session was really helpful for the student to know how good and realistic their ideas were. What problems are there in their ideas and how can they improve it.

Overall this event was full of learning, creating new leaders in the field if technological advancement and explore some interesting and amazing fields of technology.

“If you haven't found it yet, keep looking. Don't settle. As with all matters of the heart, you'll know when you find it. And, like any great relationship, it just gets better and better as the years roll on.” – Steve Jobs. So keep looking for new ideas and don't settle because maybe your idea can be the next one to create a revolution and you present it in our next chapter of this event “IDEATHON”.

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**Clockwise from top:** IEEE Student Branch Executives with our guest speaker Mr. Abhishek Nandy [1]. Mr. Abhishek Nandy speaking about applications of IoT [2]. Attendees listening to the speech from guest speaker [3].

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## Self-Driving Vehicle Workshop

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The Self Driving Vehicle Workshop jointly hosted by SAE and IEEE Student Branch NIT Durgapur was held on the 29th and 30th of September 2018 in the Student's Activity Centre, NIT Durgapur. It was an immense success due to the diverse participation rates from in and around Durgapur. Calls came in from interested candidates of Burdwan and Behrampur too. Other colleges who sent participants includes NSHM Knowledge Campus, Durgapur and also B.C. Roy Engineering College.

Around 130 students participated in this SDV Workshop- 33 teams comprising of around 4 students each. On the first day, the first years of college were escorted in from their hostels by 9.30AM, and the workshop began sharply at 10 AM. An introductory presentation on what actually is a Self Driving Vehicle and its prospects and scope of evolution were given by SAE Final Year student Wasiqul Haque. Then we proceed with the main explanation of the technology behind a self-driving automobile.

A brief introduction to algorithm, functions, and basic C, C++ code was given by pre-final year IEEE Core Member Abhishek Singh. The Arduino UNO kits were then distributed to the teams and their attendance was marked. A brief one hour gap followed for lunch purposes. Following which, pre-final year ECE student and IEEE Core Member Monsij Biswal gave a presentation on Arduino UNO- it's detailed architecture, power requirements, modes, and uses. A sample blinker code in Arduino IDE was shown and the students were asked to try it out. Further, the wooden chalices were provided which would form the outside framework and structure of the SDV Bot.

On Day 2, that is 30th of September, we began at 10 AM and the first presentation of the day was the motion Calibration Algorithm taught by Aniq Ur Rahman, Final year ECE Student and Chair IEEE Student Branch. Following which the students were asked to interact and clear their doubts if they had any. After the lunch break, we got back with the assembling of the bot. The students began their hands-on work, as they loaded the motion calibration algorithm onto the Arduino and assembled the motor fitted chalice pieces together. Almost 60-70%

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of the bots run and were successfully tested, a rest few had committed some connection anomalies which were being attended to by SAE and IEEE volunteers effectively.

A quiz session was conducted to test how much the students had taken in the past two days' teachings. The last presentation was given by Abhishek Singh, on the stage 2 possibilities of such a basic SDV prototype as was built in the workshop. Many interesting features of AI and Neural Networks were discussed and the possibilities that such technologies could bring forth. Overall students were highly interested and intrigued about the whole workshop. The feedback form brought in many positive reviews from students saying how new and innovative such a venture like this workshop was. The event was a huge success for the two societies.



**Clockwise from top:** IEEE and SAE members with attendees [1]. Attendees taking notes from our presentations[2], IEEE Executives helping attendees with Arduino code [3].

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## MATLAB Mastery:

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IEEE Student Branch NIT Durgapur with its very aim of organising events and workshops that engage, inspire and delight, conducted a series of tutorial classes titled ‘MATLAB MASTERY’. This provided the students a platform to learn the software which is well known for its power to integrate computation, visualization, and programming in an easy-to-use environment, in its entirety. The response was overwhelming as it witnessed 215 enthusiasts geared up to learn, explore and discover irrespective of their departments, that resulted in the booking of two lecture rooms, LG 23 and EC 31 to carry out the session. The software was already circulated to the participants with a guideline of how to install it in their laptops before the session.

The first session was held on 22nd January 2019 at 5:30 PM in both the classrooms simultaneously by the members of IEEE SB NIT Durgapur Monsij Biswal and Animesh Datta from the Dept. of Electronics and Communication Engineering. The class started with an introduction to MATLAB software followed by how to work with mathematical operations and create, design and use variables in MATLAB. Our counselor Prof. N. K. Roy also addressed the students, shared his experiences and told the benefits and importance of learning MATLAB.

The second and third sessions of the series were held on the last Tuesday of January and 5th of February 2019 at the same time in the evening with the same level of enthusiasm. The topics covered by Monsij Biswal on the respective days were Matrices, and functions and flow of control, whereas Animesh Datta cleared the concepts related to MATLAB plotting and scripts in the corresponding sessions. Assignments were also distributed to the students in the third session.

In the final session held 13th of February 2019, a surprise test was conducted for the students to check how much were they able to learn from the previous sessions and assignments. Certificate of completion was provided to the participants and the top five students who attended all the sessions and scored well in the test were awarded Certificate of Distinction.

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Overall the series was a great success. Interactive sessions between a curious crowd and the adept members of our society who together constituted an environment called ‘CLASSROOM’. The series was extremely well-received by the crowd.



**Clockwise from top:** Attendees listening to our speaker Mr. Monsij Biswal [1]. Attendees running their first code on MATLAB [2]. IEEE Executives helping out attendees regarding MATLAB Codes [3].

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## The Art of Scientific Writing:

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IEEE Student Branch NIT DURGAPUR conducted the “The Art of Scientific Writing “ on 31st January 2019 at the C.V.RAMAN Auditorium, New Academic Building. The response was overwhelming and numerous students irrespective of their branch attended it.

We were privileged to have with us, Dr. Aniruddha Chandra, associate professor of Electronics and Communication Engineering (ECE) Department and our newly appointed faculty advisor.

The event kick-started with the welcome speech by Pritish Singhal, first-year Electronics and Communications Engineering Department who introduced the audience to the importance of a scientific paper.

The following item on the agenda was, our special guest of the evening, Dr. Aniruddha Chandra's speech to enlighten everyone in detail on the topic. He started with sharing the experiences and works of his research undergraduate students who are extremely successful in their lives currently. He discussed in detail the format in which a scientific paper should be written and the various aspects related to it. He mentioned the importance of one's research work getting accept in a reputed journal and the boost it will provide to one's career. He then moved on to the psychology of the reviewers and the editors of journals when they review your work and various hacks to get the work done. He also laid stress on the struggles involving in getting your work published even after severe criticism from the reviewers of the journals and your peers. He also stressed on the importance of funding and sponsorships for carrying out the research. He concluded with a takeaway session which was followed with an interactive session with students in the audience.

He was followed by Aniq Ur Rahman, Chair IEEE Student Branch NIT Durgapur, who shared the journey of publishing his research work. He shared some valuable key points like the importance of maintaining a research notebook, organizing one's thoughts, getting constant feedback and improving the work until its ready.

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Finally, the event was concluded by Animesh Dutta, Electronics and Communications Department. In a nutshell, the event was a great success involving sensational speakers and an interactive audience. The event covered all the aspects of The Art of Scientific Writing one can possibly think of.



**Clockwise from top:** Prof. Aniruddha Chandra giving lecture on Art of Scientific Writing [1]. IEEE Chair Mr. Aniq Ur Rahman speaking on how to proceed for research work [2]. Attendees listening to our speaker [3].

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## Game Engineering:

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IEEE STUDENTS' BRANCH NIT DURGAPUR conducted an interactive session on Game Engineering and Design in association with GNU LINUX USERS' GROUP powered by Unity, Unreal engine WA, Ubisoft and Oculus on the 7th of March, 2019 in Room 404, New Academic Building from 5:30 PM onwards. The event witnessed an overwhelming crowd of enthusiasts from different years, irrespective of their branches.

The event was kickstarted with a presentation by Mr. Abhilash Majumder, a student ambassador at Unity Technologies and an Android developer, on topics like shaders, Light-Weight Rendering Pipeline (LWRP), Machine Learning and Unity Engine. Several demos were interspersed in the presentation, like a demo on the use of VR which kept the crowd engrossed.

Moving on, we had Mr. Khagendra Kumar, Student Ambassador at Unity Technologies, AR/VR Developer and ML engineer, who stressed on fundamental topics like prototyping, primitive and structured content and levels. Once again, several demos related to the content kept the participants glued to the presentation screen.

Our next speaker was, Mr. Mihir Solanki, Student Ambassador Unity Technologies, Hyderabad, who explained the need for the level of detail in games, object pooling and caching, Modularity and Decimation along with a handful of interesting demos yet again.

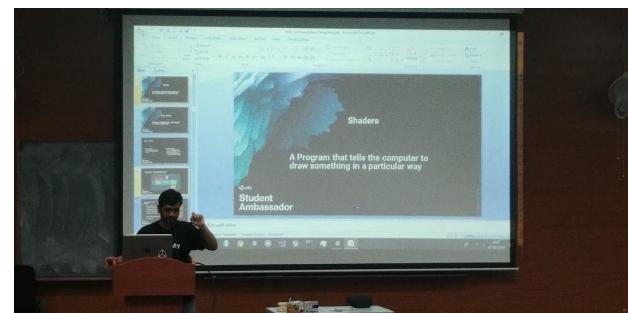
We finally had, Mr. Vinesh Bhatulla, a final year CSE undergraduate student, NIT Durgapur and Tech Head at Planet Spark, who presented an idea of online multiplayer gaming. He talked about different libraries utilized in online gaming like WebGL, JavaScript and so forth. He then showed a simple demo of an online game that he made himself, to the participants. Keeping the audience captivated, he finished off by sharing his experience working as a game developer with the audience.

Overall this interactive session was a grand success and was concluded with a vote of thanks by Mr. Arindam Dutta, IEEE SB NIT Durgapur member. Contestants were left feeling satisfied and encouraged to delve deeper into the world of game development. A proposal for the

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formation of a game development society in the college was also introduced by Mr. Majumder. Unity-powered kits were given out to participants which included stickers, t-shirts, certificates, badges and other exciting goodies. This event was another feather in the cap for IEEE Students' Branch and we hope to continue this streak of success in the upcoming events as well.



**Clockwise from top:** Attendees listening to our speakers [1]. Mr. Mihir Solanki, Student Ambassador Unity Technologies, Hyderabad speaking on the importance of modularity on games. [2]. Unity Student ambassador Mr. Abhilash Majumder speaking on shaders [3].

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## Google Cloud Study Jams:

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IEEE Student Branch NIT Durgapur along with Google Cloud developer community Kolkata organised Google Cloud Study Jams sponsored by Google which provided the students a platform to build concepts, techniques, and applications at the furthest extent on artificial intelligence, machine learning, deep learning and many other interesting aspects of science and technology.

The event was started by Mr. Abhishek Nandy, AI Architect at prescriber 360, with a small interaction with the students to check their prior knowledge about the topic. He gave a brief idea about Tensorflow: its installation using Anaconda windows and application.

The mike was then passed to Mr. Risab Biswas, Data Scientist at Prescriber 360, who gave a brief idea about AI, machine learning, deep learning and neural networks with different and relatable examples making the technical terms easy to understand for the students. He then shared his experience about his project based on plant disease detection, in which he shared his codes based on CNN to detect diseases like a citrus canker.

Our Next speaker was Ms. Debasree Chanda who gave a brief idea on AI and its wide range utilisation in today's world followed by Mrs. Sumitra Bagchi who guided the students to get free access to the cloud labs using Qwiklabs.

Overall the event was a great success witnessed by a good crowd of enthusiasts who were left feeling satisfied and encouraged to build, innovate and scale with ease and interest. Another event with the very aim of educating the society came to an end with the distribution of Google study jam badges, Food and Beverages, sponsored by Google to the participants.

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**Clockwise from top:** IEEE Executives and attendees with our guest speakers. [1]. Mr. Risab Biswas, speaking on AI, Machine Learning [2]. Guest speaker Mr. Abhishek Nandy speaking about tensorflow [3].