



# **GNIOT TECHCLUB**

**INSPIRE, IGNITE & INNOVATE**

Presents :-



**A Yearly Magazine of GNIOT Tech-Club**

**TechSparks#15**  
**Workshop's**  
**Technical Talks**

# From The Desk



team for unfolding the extravagant talents of the students. Wishing a long and successful journey to all the students with incredible landmarks in their professional career.

**Dr. Rohit Garg**  
( Club Patron)



they can face the real world problems without making a herculean effort.

**Dr. Rajesh Pathak**  
( Club Incharge)



A chief coordinator is an official of various different types. The equivalent in military terms would be "Front line troop". Front line troop would be nothing if they don't have anyone to watch their backs. I can say that the people behind me were the people whom I can always trust and they did the same for me.

Being a chief coordinator was no less than working like a funambulist where you have to mind your every step. It's a show of mental agility, one wrong step and it will

lead you and your team way back. Nostalgia is a good thing, when I look back at the time when our club started there were handful people striving to succeed, during that time I learnt from my seniors and their selfless devotion to the club left a bright mark on me which lifted me to this stage.

The best way to show our gratitude is to make the most of the opportunity we have been given, and go forward into the world with the intention of making it a better place for the generations that follow us. At the end of the day, if someone asks me what I have earned then I can easily say that I earned people and moments, people who showered their love and respect on me and moments which I will always cherish.

**Suyash Srivastava**  
( Chief Coordinator)



**Rajat Saini**  
( Chief Coordinator)



# Workshop on Embedded System & Robotics

On 27th September 2015, a two day workshop on Embedded System & Robotics was conducted in our college by RCPL India Private Ltd. under the supervision of Mr. Vineet Singh. The workshop was volunteered by the members of GNIOT-TechClub. The workshop was attended by the students of all the years and all engineering traits. In the workshop, a group of 5 was made and each group was provided with a robotic kit comprising an IC (AT MEGA-16) and various other components. The student learnt to build robots like Manual, Line-Follower, Object-Follower, Object-Avoider, Edge-Follower and Obstacle-Detector.



On 27th September, Day-I the event was started with an inspiring speech of our Club Incharge Dr. Rajesh Pathak. It was followed by the participants getting basic informations about Embedded System Microprocessors and practical work related to it.

On 28th September, Day-II the participants got experience of building the above listed robots. It was concluded with an enthusiastic speech by our Club Chief Coordinators Suyash Srivastava & Rajat Saini. At the end of the day, a Quiz was organized and the winners were awarded with attractive goodies. The participants were provided with a valuable certificate by RCPL, a premier company in its field with partners like ORACLE, MICROSOFT and REDHAT. Overall, it was recorded as the biggest workshop organized in our college till date!





# TechSparks#15



Ever since its upcoming, the college is providing a sound background to use the talent of the students of the college in technical fields by organising TechSparks, a yearly Technical Fest. This is a big part of college year calendar. This year it was organized on 9<sup>th</sup> & 10<sup>th</sup> of October with various events such as Robo Race, Code Hunt, Spell Bee, Extempore, Momentum etc. Over 1500 participants were there, which in itself proved the success of TechSparks#15. Moreover to keep the enthusiasm alive various cash prizes and attractive goodies were awarded to the winners. TechSparks#15 was a big success with a global sponsor IBM BLUEMIX. It promises to give us more talent and will help us to inspire, ignite, and innovate.



## Robotics

Robo race was the flag event of TechSparks#15. It was a very exciting event with multiple teams showing big gains in terms of racing autonomy. All teams demonstrated true autonomy and completed the entire circuit course loop autonomously. Winners were awarded with cash prizes & goodies. The event proved survival of the fittest.

## Momentum

"An empty bottle, water and Boom!" Momentum was organized for the first time and it was the major crowd pulling event. Participants designed, constructed and launched those rockets from empty plastic bottles. Participants had to focus on stability of rocket, to achieve maximum height and eventually greater displacement. Momentum was enjoyed by each and everybody watching different rockets reaching greater heights.





## LAN-Thrash

From consoles to computer and smart phones, games are more accessible than ever, which gives us a good opportunity to challenge each other in LAN games. A great number of participants gained a new experience by taking part in games like N.F.S, Tekken and Counter Strike. It's a bliss either you are good in team cooperation or solo king.



## I-Q Sector and Quiz

Quiz & IQ sector tested how professional, intelligent, fast, efficient and accurate the participants were. They tailored out their mental capability and produced just what was needed. Students tried answering questions individually or as a team of freelancers. It had over 200 participants and they all had a productive experience.

## Mock Test

Mock test was an event to test the aptitude and confidence of the participants with an aptitude test and group discussion. The event concluded with the personal interview round which was to check the manoeuvre and the ability to present themselves. The participants experienced how the industrial job interviews are actually conducted.

## Bridge Building

This event was organized, to test knowledge about various types of trusses and their application. Bridge Building is an event which relates to real world engineering concepts. This event was organized to test whether the participants can apply their mind to solve real world applications and build a stable structure.



## Circuit Surgeon

Circuit surgeon tested the capability of participants in the field of electronic circuits both theoretically and practically with MCQs and circuit designing. The participants followed a planned or structured design process for a compact circuit design. Winners of the event were awarded with exciting prizes and goodies.





## T-shirt Designing

This event was conducted to bring out the imaginations of the students on a piece of fabric. The participants gave colors to their creative ideas on a T-Shirt enthusiastically. The event was well balanced. A new initiative taken. The winning t-shirt was enough to work as a stand alone print.



## RJ Hunt

RJ hunt was another competition held during TechSparks#15. The main objective of the event was to find potential radio jockeys among the students. The event focused on improving the communication skills and showcasing the creativity of the students.

## Spellbee

The main objective of Spellbee event was to test the spelling skills of the students and through that improving their vocabulary. In the competition the contestants were asked to spell a broad selection of words with a varying degree of difficulty in each level and finally leading up to the winner.

## Paper Glider

Gone with the wind. Taking this in consideration tech club organised an event paper glider in which participants were given glue, sticks and paper so they literally fly the creation to farthest of land. The participant whose glider traveled the most of the distance was crowned the winner of the event.



## Photomania

Editing the photographs after clicking it is a new trend .Participants in this event got a new way of seeing the world without any changes in the photograph. The participants were able to focus in details of their surroundings by using their cameras. The event had separate winners for regular cameras and DSLR using participants to maintain the fairness of the event.





# Talk on “IBM BLUEMIX”

On 10<sup>th</sup> October a seminar was conducted by GNIOT-TechClub which focused on the latest and the greatest of the cloud platform known as “IBM BLUEMIX”. It was organised under the guidance of our club incharge Dr. Rajesh Pathak and in coordination with chief coordinators Rajat Saini and Suyash



Srivastava . The main focus of the workshop was to familiarise students with IBM's Open CloudArchitecture and its implementation called Bluemix . In addition to providing additional frameworks and services, they were provided a dashboard for themselves to create, view, and manage their applications and services. The seminar was a huge success as it gave the students a new way to implement their ideas using the technology in real time.

## Seminar on Mobility

The seminar was organized by GNIOT-TechClub on 10<sup>th</sup> October 2015. The college student from all their respective years participated in this seminar. Honorable GNIOT-TechClub Patron Mr. Rohit Garg and GNIOT-TechClub Incharge Dr. Rajesh Pathak were Chief Guest at the seminar. The Participants were taught about Mobility. It's a frequent feature of Mobile App Development. A knowledge about Android and application development through android was inculcated to the participants. The participants also learnt the development of softwares on handheld devices that are pre-installed during manufacturing platforms. The participants also learnt about the Interface details that is an essential creation during app-development. The programming languages along with the platforms were also detailed.

## Martyr's Day Celebration

In a joint collaboration of GNIOT-TechClub and GNIOT-Cares, Martyr's day celebration was held in GNIOT campus on 26<sup>th</sup> of January 2016, attended by our honorable vice chairman Mr. B.L Gupta, our directors Dr. Rohit Garg and Dr. Savita Mohan, our dean Dr. Himanshu Rai, all the HODs and all the faculty members. On the account of Martyr's day, we came together to pay tribute to all the Martyrs who sacrificed their lives for the freedom, welfare and progress of our country. On this occasion, the delegates with all other faculties planted over 15-20 trees in our campus.



## Workshop on Hybrid Mobile Application Development

It was Held on 16-february-2016, Venue PGDM Seminar Hall and Attended by Dr. Rajesh Pathak , Dr. Ramveer Singh (HOD -IT), Dr. Deepak Kumar (HOD- ECE) GNIOT – TechClub in association with CSE, IT and ECE department organized a workshop. A total of 210 students attended the workshop in which the trainers awarded the IBM merchandise like T-shirts and Pens to the students who have actually participated in the session and gave the answers to the questions asked by them. The duration of this session was 3 hours 30 minutes in which the trainers gave the demo of hybrid mobile application development and they also conducted a general aptitude test for the students. Those who scored above 75% marks in that test they got a 4-6 weeks training by IBM as a reward.

## Talk on Big Data and Hadoop

In The Never Seizing World of information, data manipulation is a major advantage. Taking this in consideration GNIOT-TechClub organized a seminar on Big Data and Hadoop which focused on Hadoop ecosystem & its features, career path through Hadoop and job role in big data industry. Students actively took part in the workshop and were interested in working with new technologies.





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