



# Computer Science & Engineering

ΣΠΕΣΤΑΤΟΡ ΜΑΝΙΑ

**Donation Club**  
Connecting The Unconnecteds

I wish all the youths connected with Donation Club all the best. Their contribution of stationary items would help children of Bal Sahitya achieve their education goal.

Do not hesitate to do what you can do to change the world that is more affectionate and lovely to children.

Subhas  
28/1/17

iOS Lab



Varun Dhawan & Alia Bhatt



Ethical Voting



Hackathon'17



Web Designing



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## Upcoming Events-

- FDP on Statistical Techniques in Month of July' 2017.
- Workshop on Hands on practice on network device in Month of August'2017.
- FDP on Big Data Hadoop in Month of September'2017.

## Alumni Message

# SMART INDIA HACKATHON 2017

Teams from CSE Department, GLBITM, Gr. Noida got selected for the great nationwide Smart India Hackathon 2017, by Government of India.

At the Grand Finale of the event on 1-2 April, 2017, One of our teams, Team VisionArray has bagged the 4th Position along with a cash prize of 10,000 by Government of India. They competed with more than 180 Teams from all over India at Bhopal. Team Leader of VisionArray, Tejas Upmanyu has received "Inspiration Award" from the esteemed panel of judges, intellectuals and cabinet ministers.

Along with this great achievement, Team VisionArray attracted a lot of attention by Senior Officials at NCPCR (The Ministry whose problem they solved.) and are in talks with them for purchasing and developing the solution further, very soon as they say it has a lot of potential to become the official NCPCR Application.



# INAUGURATION OF iOS LAB

iOS Lab was inaugurated on 22 April, 2017 by Mr. Sumal Abraham Varghese, Chief Group Manager-Human Resources Adventz Group (formerly K K Birla Group). Under the banner of iOS Apple Lab the students will be able to learn the following concepts. The Lab is equipped with 30 Mac Installed Machines with Xcode simulator to run, compile and build their App's.-Simple iPhone Application, Learn Objective-C, Memory Management, Target & Action Design pattern, Understanding the Delegates Design and Pattern's, Model View Concepts and their implementation, Advanced UI Table View Programming, Playing Audio and Videos, Sqlite Programming, Core Data Applications, Prepare the App store.



To meet the growing demand of Technologies, department initiated to provide hands on training on IOS development to improve the future prospects in career.

– Dr. A. L. N. Rao (Head)

# NUKKAD NATAK- ETHICAL VOTING



In order to create awareness among the youth, the students of CSE Department along with other students staged a street play or nukkad natak on ethical voting which was a part of “voter awareness campaign” conducted by District Administrator. The students succeeded in presenting their performance with lot of encouragement in various university such as Sharda University and Gautum Buddha University.

# DONATION CLUB : CONNECTING THE UNCONNECTEDS

**D**onation Club is an initiative taken by students of C.S.E (Chirag Batra, Gaurav Rajput, Shubham Shreyas, Paras Ahuja) to help the lesser privileged sections of our society by creating a platform where people who want to help can come and donate. They pick up donations at their convenience and make sure they get delivered to where they were intended to. Main focus is to grow as an idea and bring to light the daily ignored issues. Currently, they do not accept monetary donation, instead focus on the material ones which is usually considered trash. Till now they have done 3 donation events, in the first event on New Year, 17 donated over 4000 clothes collected from our friends and neighborhood. In the second event we changed our style a bit and went on collecting waste paper from everyone like newspapers, copies etc. Over 500 kg of waste was recycled and we bought copies, pencils, colors for poor students and donated them in several free schools around Delhi. **Bal Sahyog** is one such



school in Connaught Place, New Delhi which is directly under the Prime Minister of our country and the Principal of that school gave a congratulatory letter on efforts and encouraged them to keep up the good work. In the next donation we spent a day in an orphanage inspiring the future of our country, talking to them and teaching them. This event was also a cycle rally in which we cycled for 25 km spreading the message of helping each other to achieve a greater harmony.

# DONATION CLUB : CONNECTING THE UNCONNECTEDS

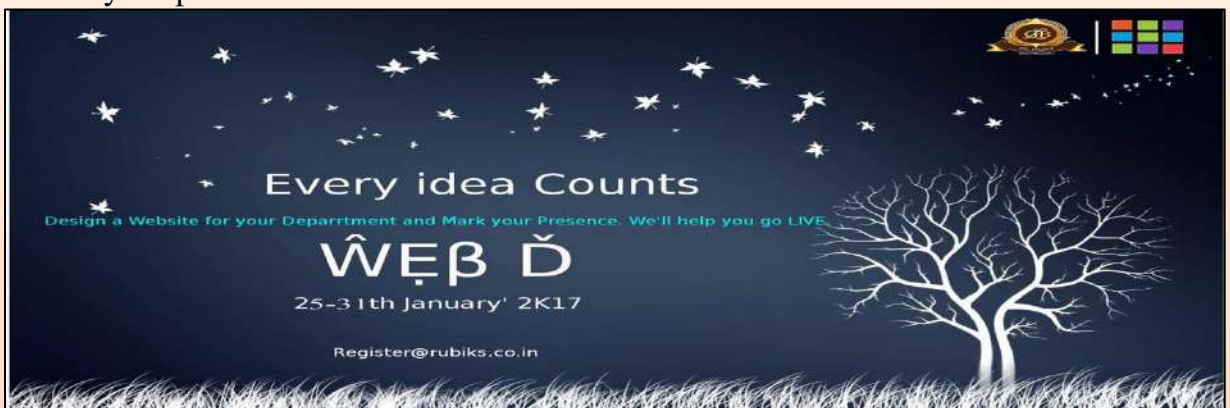
After the end semester exams of May, 17 again collected about 700 kg of waste paper. The official website of our NGO “www.donationclub.info”

Is Currently under recon -struction as they are adding an OPEN LIBRARY to NGO in order to encourage more and more people to read. The idea behind it is that you can leave one book with them and can take any other in exchange, in this way people with a habit of reading can find new books easily in exchange of the ones they read. The team of Donation Club is growing and currently consist of volunteers from GU, Greater Noida, DTU, New Delhi, Galgotias College, Greater Noida, NIFT, Rae Bareilly, Delhi University and several others from GL Bajaj as well. They have been working in collaboration of other NGOs too. The NGO is in the process of getting registered by the government for which some of the formalities have already been finished.



# WEB D : EVERY IDEA COUNTS

This event was held from 25<sup>th</sup> January 2017 to 31<sup>st</sup> January 2017. This was an individual event which focused on developing the front end of the departmental website. Theme for the competition was “Design a website for your department and mark your presence”.

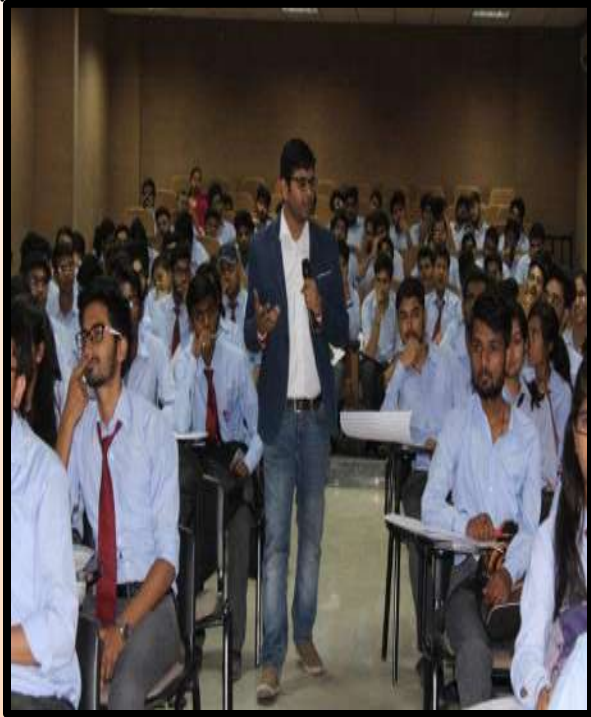


## WINNERS





# IMAGINXP - UX & INNOVATION WORKSHOP



A workshop on ImaginXP - UX & Innovation by Sonam Agrawal Co-Founder, ImaginXP, was organised on 03/04/2017.

Key Topics:

- Introduction to design, technology and innovation.
- Innovative Companies and why we need innovation.
- Introduction to the user centered design process.
- User Centered Design Workshop
  - Identify problems
  - Empathize with user



This workshop act as an awareness building session to get a **preview of UX Design and job opportunites**. User Experience Design is the discipline for the design of digital products such as mobile applications, web portals, IoT, wearables etc (think design for products such as facebook, flipkart, [shaadi.com](http://shaadi.com), makemytrip etc). There were 65.000 UX Design jobs in India, a number that is estimated to grow to 658,000 jobs by 2020. UX designers are highly paid and in high demand in the Indian industry across sectors

# GUEST LECTURE ON AI & EMERGING TECHNOLOGIES

A Guest lecture on Artificial Intelligence & Emerging Technologies, by Mr. Sandeep Arora (Co-founder, FLARRIO), and Mr. Rahul Ghosh was organized on 6-4-2017.



As technologies continue to achieve human and super-human-level intelligence, it's important for us to decode this rapidly evolving world of tech and prepare our next-gen workforce with the skills that are going to be relevant in heavily automated future. Artificial Intelligence is likely to have much larger impact in coming years than Personal Computing, Internet and Mobility revolutions did in past few decades. This impact will have far reaching effects across industries and cause significant churn in job market.



This workshop act as an awareness building session to get a **preview of the new opportunities and job-oriented learning**. Among other things, it will cover the importance of core AI constituents like Data Science, Machine Learning, Statistical Analysis, R and Python programming, Big Data elements like Hadoop and Apache Spark, and the latest uses of AI in **Arts, Finance, Analytics, Science, Healthcare, Transportation, and Smart Cities**.



# FDP ON ALGORITHMIC THINKING & ALGORITHM DESIGN

**A**n approach to make the computers learn how to treat humans right, by Prof. (Dr.) S. R. Subramanya, Professor – National University, San Diego, CA. 10-05-2017 to 11-05-2017.

Workshop Outcomes:

- Problem formulation and representation.
- Better understanding of some problems and their Complexities.
- Brute-force v/s systematic solutions.
- Understanding of some data structures and algorithm design techniques.



“Nothing happens by magic only clear definition of the step lead to a solution and this excellence goes on next level when it allows the solution to be automated rather than having to learn how to use your computers, your computers will have to learn how you would like to use them”.

# WORKSHOP ON MACHINE LEARNING

**W**orkshop on Machine Learning in collaboration with Atti vitti Pvt. Ltd was conducted by Prof. A.K. Sinha from 13<sup>th</sup> June to 16<sup>th</sup> June for faculty member and students of final year. The main focus was MATLAB and R Systems. In MATLAB and R Systems he told various problem with solution like drawing pie charts , finding histograms, and various other mathematical functions.



He also taught how to implement Regression. In which the following major things in R

## 1. R-operations

(a) Arithmetic Operators (b) Relational Operators (c) Logical Operators (d) Assignment Operators

## 2. R - Matrices

(a) Example (b) Accessing Elements of a Matrix (c) Matrix Computations

## 3. R - Arrays

(a) Example (b) Naming Columns and Rows (c) Accessing Array Elements

(d) Manipulating Array Elements (e) Calculations Across Array Elements

# ARTICLE ON BIG DATA ANALYTICS & RENEWABLE ENERGY



Mr.Laxmikant Sagar

Associate Professor,CSE Dept.

[“Let us turn to the Sun to power our future”](#): [PM Narendra Modi said these words at the launch of International Solar Alliance in Paris](#) on 30 Nov 2015. This is because of ever increasing demand of electricity and convection power generators are not in position to meet the demand; in that case India would never come out of problem of blackouts. The convectional generators cannot meet the demand due to some non-negotiable factors such as: depletion of fossil fuels, CO2 emissions, environment factors etc.

The only alternate left with us is integration of non-renewable and renewable energy such as solar and wind power. Solar Photovoltaic (PV) is widely used as renewable source to provide electricity without carbon di oxide emission or any other air pollutants. But reliability and performance are the main challenges that have to be work upon i.e. if no sun light, no electricity. The output of solar plants is also very low.

The only solution for the above problems is Big Data Analytics i.e. big data; machine learning, artificial intelligence and data mining which can increase reliability and performance to great extent.

# UPCOMING EVENT

## **FDP on “Statistical Techniques” by Dr. Paras Bhatnagar on 14<sup>th</sup> July 2017.**

“Sometimes we don't have that hint and it is most important to know when to use what statistical technique”.

It is based on optimization and statistical computing techniques which help computer professional to work better for the real time problems.

Key Point of Workshop :Correlation, Least Squares Method, Curve of Regression, Skewness and Kurtosis, Mean, Median, And Mode.

## **Workshop “Hands on practices on network device” by Mr. Naveen Chauhan On 12/08/2017.**

Key Point of Workshop : Router Configuration ,Web Server Configuration, Protocol (FTP,SMTP), Scaling Network ,Wire Shark – Filtering & Scripting, Introduction of NS2 ,etc.

## **FDP on “Big Data Hadoop” by Mr. Vikas Kumar On 09/09/2017 .**

Key Point of Workshop : Revision of Analyzing and Handling the data, Role of Parallel Computing, Hadoop Content Management & Process, Hadoop Distributed File System (HDFS), Monitoring Hadoop cluster.

# ALUMNI MESSAGE



**Rakhi Sharma**

**B.Tech –CSE (2013-17 Batch)**

Academics are certainly challenging, but rewarding, and students usually are not excessively stressed about grades. Professors are, for the most part, incredibly knowledgeable and care about the students. With world class teaching facilities and environment to learn new things. I am not only excelled in my academics but also secured a reputed job on campus in KPIT technologies limited. Everyday here was filled with growth, excitement, responsibilities, learning, and most amazing friends I could ever ask for. 4 years at G.L. Bajaj has been the most exciting time of my life - canteen, friends, lectures, bonding, co-curricular activities, means the entire atmosphere is unforgettable. Here is the ample scope of personal development in technical and arts etc.

# OTHER ACTIVITIES

Students share stage with Badri ki Dhulania team while promotional activity for movie @GLBITM.



Students participated in 26<sup>th</sup> Jan'2017 function @GLBITM.

