



CLUSTER INNOVATION CENTRE

(UNIVERSITY OF DELHI)

University Stadium, G.C.Narang Road,
University of Delhi, Delhi-110007, Ph. 27666702

Workshop on “Entrepreneurship Basics & Ideation”

Prowisdom.in is an education management platform designed to establish a sustainable relationship between youth & experience, across the world to build social capital. They enable and establish a valuable connection between learners and professionals/experts. The purpose of their company is to bridge the existing gap between education (academics) and employability (industry) by bringing them together on one platform, on a sustainable basis. At Prowisdom.in professionals, subject experts & industry leaders across the world, step in to network and connect online as well as offline, to share their knowledge, best practices, industry & functional awareness, merits & demerits of a role, industry trends, industry expected skills, & their professional wisdom with the youth, to help them identify their strengths, build capabilities, learn new skills to help them in progressing towards achieving their personal & professional goals.

Mr Puneet Raman, Founder and Director of Prowisdom Growth Private Limited will be conducting a workshop on “Entrepreneurship Basics & Ideation” for the students of Cluster Innovation Centre as per the schedule given below

Date: 22nd February 2016 (Wednesday)

**Venue: Seminar Hall, First Floor,
Cluster Innovation Centre**

Time: 3:00 – 5:00 pm.

All the interested students and faculty members are requested to be seated in the seminar room by 2:45 pm.



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Leadership Lecture Series organised by Prowisdom Growth for CIC

Prowisdom Growth Pvt Limited has started Leadership Lecture series to promote Academia - Industry linkage. The first of these series was organized at Cluster Innovation Centre on 16th August 2017. The session was lead by Mr. Anurag Walia (VP) at Tata Communications Ltd, an industry leader in IT & Innovation.



Mr Anurag Walia has done his B.E (Electronics and Communications) from NSIT in 1996 and has been with Tata Communications Ltd. (formerly known as VSNL) since 2004. He shared his vast experience with the students, focussing on the new technologies being used in the communication industries; use of data analytics in business development and the importance of communication skills to bridge the gap between academia and industry.





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The interaction in an informal environment helped the students to get a wider perspective of different job functions in communication industry. The interaction also generated an interest among the students to explore beyond their knowledge and classroom.





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Interaction with Prof. Manoj Harbola

An interaction of the B.Tech (IT and MI) students with Prof. Manoj Harbola was scheduled on 22nd August 2014. Prof. Manoj Harbola obtained his doctoral degree at the City University of New York, USA and is currently a professor in the Department of Physics.



The session was attended by the first and second year of the B.Tech course in full strength.



He laid stress on hands on learning and demonstrated how students could verify simple principles of physics from day to day experience and materials easily available around us.



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Verifying the principle of angular momentum



Demonstrating the principles of surface tension



Students trying their hands on the experiment



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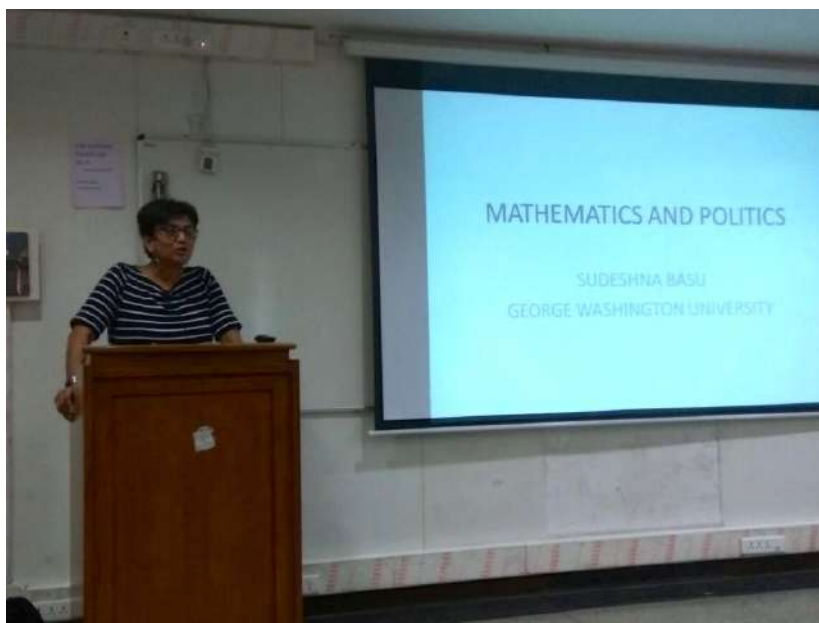
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Talk by Dr Sudeshna Basu on “Mathematics and Politics”

Dr Sudeshna Basu is a professional lecturer at the Department of Mathematics, George Washington University, USA. After doing her Ph.D from Indian Statistical Institute, Kolkata she has held positions in various leading institutes around the world. She holds numerous honors and awards. Her research interests include Geometry of Banach Spaces, Operator Theory, P-adic Functional Analysis, Frame Theory, Wavelet Theory and Applications.

On 24th August 2017 she delivered a talk on “Mathematics and Politics” for the students and faculty members of Cluster Innovation Centre.



In her talk she discussed about the Indian voting system and the alternative methodology to declare a winner. The session was well attended by students and Faculty from all the three streams at CIC.





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Leadership Lecture Series organised by Hashinclude Society of CIC

An interaction of the students and faculty members of Cluster Innovation Centre with Balaji Viswanathan was scheduled on 28th August 2017.

Mr. Balaji Viswanathan is the CEO of Invento Tech - a world class robotics company, a product manager, and entrepreneur with an eye towards new ideas. He was a part of "Windows 7" Core development team and then was a part of the startup factory at Live Labs, Microsoft. Over the past 4 years, he founded multiple startups that were funded by top accelerators. Currently, he is building a product to take corporate training to the next stage.



Also with close to 3,57,000 followers on Quora, Balaji Viswanathan, is the most followed person on Quora. He also has over 3,800 Quora answers to a diverse range of questions in his name.

He shared with the students his journey from working with tech giants Microsoft to becoming a successful entrepreneur. The students were able to grasp many different gold nuggets shared by him from his entrepreneur journey, with major emphasis being given by him on how to not let go our ideas, irrelative of how crazy or weird they sound. The session was well attended by students and Faculty from all the three streams at CIC.

The video of the interaction can be viewed at <https://www.facebook.com/hashinclude.CIC/>



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Workshop on “Introduction to Open Source” by the Alumni of CIC

The computer science society of CIC - HashInclude conducted an introductory workshop on Open Source and Git/GitHub on 28th August 2017. The gist of the workshop revolved around what is Open Source and how is it helpful.

Rajan Maurya and **Pawan Pal**, alumnus of CIC who have also been **successful GSOCers** for past two years took this workshop.



Students, mostly from I and II year, who were unaware on how to start with Open Source development attended this session. The benefits and perks of contributing to open source projects was given the most focus in the session. The attendees were also acquainted with version control systems like GitHub and Bitbucket.



The session concluded with an introduction to the open source competition by Google, namely, Google Summer of Code and how the students can go on acquiring the necessary skills to ace it.



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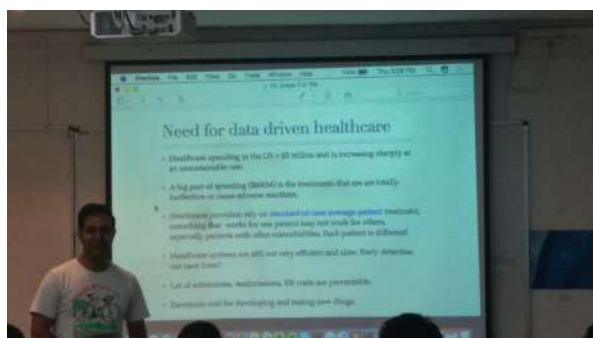
Leadership Lecture Series organised by Autonomi Society of CIC

In the next of the leadership lecture series, an interaction of the students and faculty members of Cluster Innovation Centre with Janu Verma was scheduled on 21st September 2017.

Janu Verma works in the HealthCare Analytics Research Group. Previously, he was a Quantitative Researcher in computational genomics at Cornell University. He has held research positions at Machine Learning Lab at Kansas State University, Tata Institute of Fundamental Research, Mumbai, and at Jawaharlal Nehru Center for Advanced Scientific Research, Bangalore. His work has appeared in IEEE Vis, IEEE PacificVis, KDD, Computer Graphics and Applications, Nature Genetics, IEEE Sensors Journals, IEEE International Conference on HealthCare Informatics etc. His current focus is on the development of visual analytics systems for understanding and transparency of machine learning models.



Mr Janu Verma Talked about the need for data driven healthcare. He introduced to the students the application of machine learning and data mining. The application of temporal sequence mining and predictive models were also discussed.



He went on to explain how same concepts can be used to solve problems in Drug discovery and text classification. In his talk, Janu Verma also emphasized the importance of studying various branches of Mathematics like Graph Theory, Linear Algebra, Probability and Statistics and informed the students how the concepts are being utilized in these real life problems.



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Workshop on Artificial Intelligence (AI) Algorithms

A half-day workshop focusing on the process of solving real world problems using AI is being organized as follows:

Date: 27th January 2018 (Saturday)

Time: 12:00 pm onwards

Venue: Seminar Room

Abstract: A brief introduction to AI, focusing on the process of solving real world problems using AI. Walk-through on the importance of data in training AI algorithms to achieve the desired intelligence. Briefing about different text analysis APIs and their real world applications.

About the Speakers:

Rachit Bardia

- Head of Business, ParallelDots, Curated the Product of Dentistry AI at ParallelDots.
- Stanford Ignite Fellow from Stanford University Graduate School of Business.
- Experience in wearing multiple hats over a span of time empowering to have a unique outlook in solving the problem in hand. (Founder, Director, Product Manager, Head of Business, Idea Consultant, Investment Research Analyst, Software Developer)

Prakshal Jain

- Business Associate, ParallelDots, Inc. - Lead Strategist Karna AI
- Experience in wearing multiple hats giving a unique outlook in different situations. (Business Associate, Lead Strategist, Director, Founder, Social Worker).
- Founding team member and Project Manager of “DoGhanta” e-commerce and delivery concept under Arozite Technologies Pvt. Ltd.

About ParallelDots:

ParallelDots, Inc. is an artificial intelligence company developing novel algorithms and high impact solutions for real world problems. ParallelDots, Inc. has three subsidiaries currently that are solving three major real world problems.

- **Karna AI:** Karna AI provides AI solutions for market research. Our solutions enable market researchers to automate mundane and time-consuming data analysis tasks, and also empower them to try radically new research ideas.
- **ParallelDots AI APIs:** Our powerful Deep Learning powered APIs can comprehend a huge amount of unstructured text and visual content to empower your products.
- **Dentistry AI:** Cloud-based artificial intelligence technology to detect dental caries from bite-wings x-rays.

Website: ParallelDots



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Leadership Lecture Series by Dr. Gyana R Parija

Dr Gyana R Parija, Manager, Analytics and Optimization Research, IBM Research - India delivered a talk on "[Cogniculture: Collaborative Cognition in Social Machines](#)" on 16th February 2018 at Cluster Innovation Centre.



Abstract of the talk:

Cogniculture is defined as the art, science, technology and business involved in the cultivation and breeding of cognitive agents (human and machines) living in a complex adaptive ecosystem and collaborating on human computation for producing essential ingredients (food, energy, safety etc) necessary for enhancing [humanity-centric] social goods while promoting sustenance, survival, and evolution (growth) of the agents' lifecycle. Scientific study of Cogniculture can be called Cognicultural Science, as opposed to Cognitive Science which is defined as the interdisciplinary, scientific study of the mind and its processes.

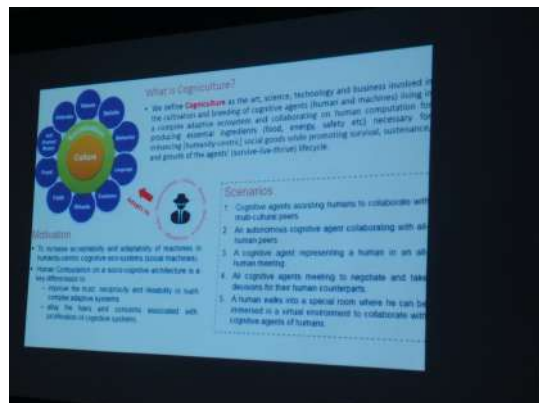
As social machines begin to become all pervasive, it's imperative that they need to acquire and exhibit the traits that vastly improve their acceptability and adaptability in humanity-centric complex adaptive eco-systems. Human computation is the key differentiator to not only improve the quotient of trust, reciprocity and likeability but also allay the fears and concerns associated with proliferation of cognitive systems. In this initiative, we aim to develop next-gen social machines to acquire necessary socio-cultural adaptability skills to survive (e.g. protect from environmental threats), live (e.g. achieve self-sustenance), and thrive (e.g. co-create far superior social welfare) in such a civilization. The innovations and development in this area entail cross discipline research including Sociology, Psychology, Cognitive Sciences, Neuro Sciences, Physiology, etc.



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The talk was attended by the students and faculty members of B.Tech (IT and Mathematical Innovations). A number of queries raised by the students were answered by the speaker.



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Line Following Robot Workshop A Workshop by Autonomi for students of Ramanujan College, DU

Line Following Robot is considered to be the beginning for people entering the vast field of robotics. It plays one of the crucial role in a students life to inspire them to learn more about the robots and helps them to learn the basics of the robotics and mechatronics of such vehicles.



On 10th of February 2018, a workshop was organized for students of Ramanujan College, the University of Delhi on the grounds of the Cluster Innovation Centre, DU by AUTONOMI. A workshop dedicated upon the robots, the main basics behind the robotics, specifically focusing upon the construction of the LFR, its basics, its hardware modules to guide students to give them a start to use their knowledge about robotics practicality and make them familiar to work with bots.





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The students, around 20, were given the talk about the robotics and the motives behind focusing on the robotics, their practicality in the real work environment. The students were interested to learn about the hardware modules and their working. They were mentored about the Arduino, it's complete basic structure and usage, along with the other hardware modules, circuit structures, connection points, everything which would construct up the LFR. The students were grouped with 3 students each and each team was constructing up an LFR all on their own but under the guidance of the AUTONOMI. Each student showed tremendous result and most of them were completely able to construct a working LFR.



The LFR construction workshop ended in the high tides with the students have built an LFR on their own and with the knowledge, they needed to advance and dive deep into the robotics. They were taught by the mentors who guided and helped them at every point they needed such.



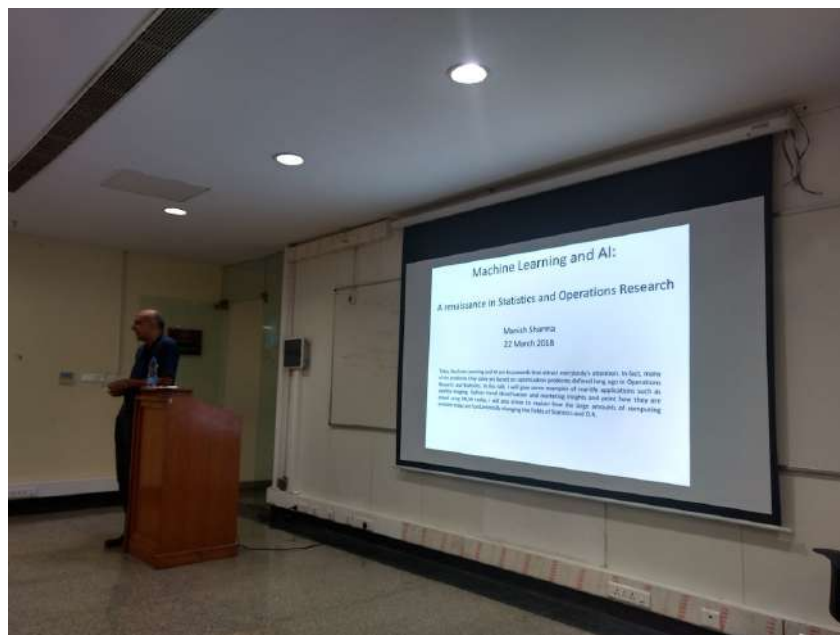
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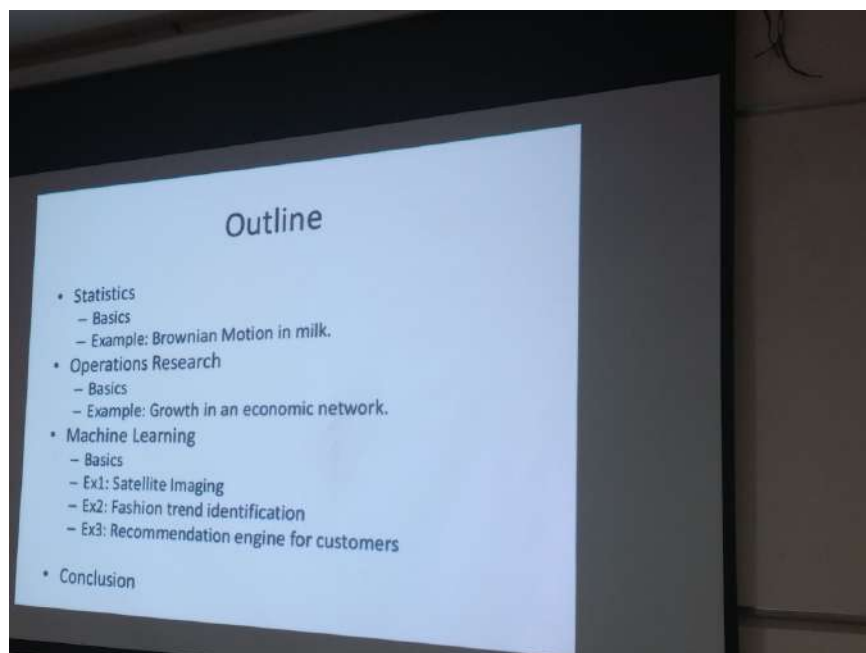
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Leadership Lecture Series by Dr. Manish Sharma

In the next of the Leadership Lecture series, Dr Manish Sharma, Principal Architect at Piney Bowes, gave a talk on "[Machine Learning and AI: A new renaissance in Operations Research and Statistics](#)" on 22nd March 2018 at Cluster Innovation Centre.



He talked about Machine Learning (ML) and Artificial Intelligence (AI) that are the buzzwords today attracting everybody's attention. He illustrated that many of the problems that are solved by these tools are based on optimization problems defined long ago in Operations Research and Statistics.

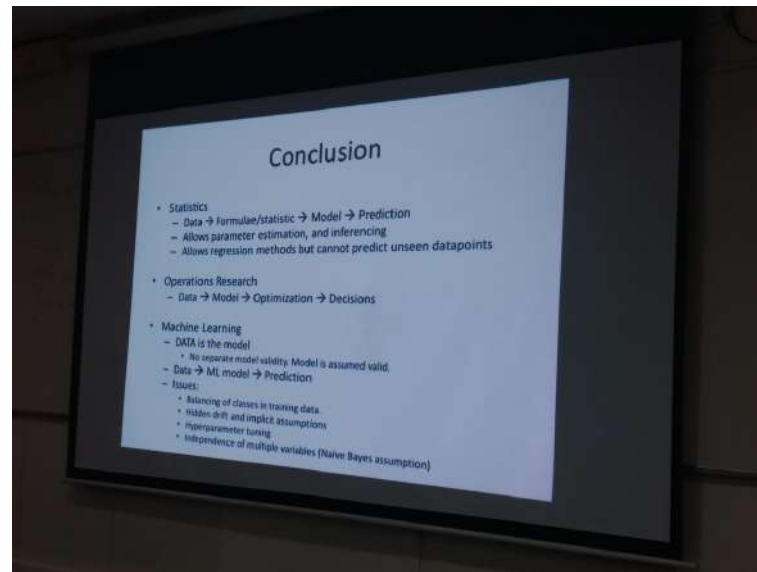




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In his talk, Dr Manish Sharma gave some examples of real-life applications such as satellite imaging, fashion trend identification and marketing insights and pointed how they are solved using ML/AI today.



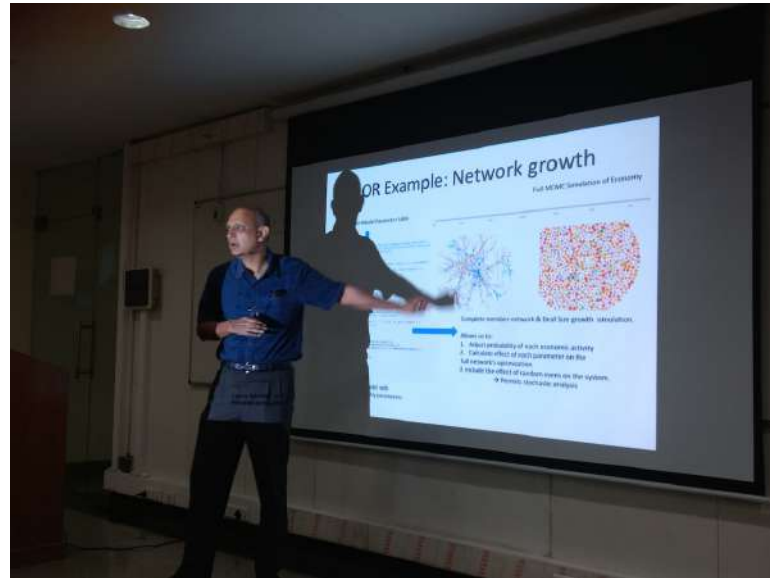
He also strived to explain how the large amounts of computing available today are fundamentally changing the fields of Statistics and O.R.



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All the problems he described in his talk were solved using Machine Learning by CIC interns working in his group.





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Visit of the delegation from Fulton School of Engineering, ASU

Dr Sohum Sohani, Associate Director, Indo Universal Collaboration for Engineering Education (IUCEE) and Niky Chokshi, Recruitment Advisor visited Cluster Innovation Centre on 6th April 2018 to interact with the students and faculty members.

The session started with a brief concept of CIC, the students providing information of their internships, projects and the societies at CIC.



The team members from ASU then informed the students of their university and the opportunities available to them.

The presentations were followed by animated discussions between the students and the visitors. The students were keen to know in which all areas the faculty members at ASU worked and internship options. They all asked questions related to the research work of Dr Sohum.



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After the interaction with students, Dr Sohumi and Ms Niky had an interaction with the faculty members of CIC. The discussion was mainly focused on the possibility of collaboration between the two organisations.





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Visit of the Principals and Teachers from the Govt. School of Delhi

Principal of SKV Shakti Nagar, No. 1 Mrs Manjula and Vice principal of Shamnath Marg Pratibha Vikas, Mr Devender along with their teachers in Mathematics and Science visited the Maths Lab and the Robotics Lab of Cluster Innovation Centre on 26th March 2018. They had expressed their desire to take help of the students at CIC to set up the tinkering labs in their respective schools.





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Workshop in Mathematics for Class XII Students

A workshop for 40 students of Class XII from the science stream of Springdales, Pusa Road was organised on 6th April 2018 at Cluster Innovation Center, Delhi University. The aim of the workshop was to enhance the conceptual knowledge of the students and introduce them to the application of Mathematics in everyday life. The workshop for these students was conducted by Prof Shobha Bagai.





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CRIP CIC Robotic Internship Programme

AUTONOMI, the Robotic Society of Cluster Innovation Centre announces its Summer Internship Programme **CRIP 2018** for undergraduate students. The duration of the Internship Programme is from 21st May 2018 to 20th July 2018. The important dates are as follows

Start of student's registration process	25 th April 2018
Last date of student's registration	17 th May 2018
Announcement of accepted interns	20 th May 2018

For details of the projects and registration students are advised to visit <http://crip.ml/>

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Prof Shobha Bagai



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Visit of students and Faculty members from Maitreyi College

70 students accompanied by 4 faculty members visited Cluster Innovation Centre on 11th October 2018. The students of the Maitreyi College from B.Sc Physical Sciences with Computers Science interacted with the B.Tech students of Cluster Innovation Centre. As the students at CIC had their poster presentation of their summer internships it was a good opportunity for the girls from Maitreyi to understand the projects that they could undertake at college level.



They later interacted with the students of Autonomi, the robotics society of CIC. These students demonstrated the projects that they have done. It was decided that the Autonomi students will conduct a workshop for the students of Maitreyi College in the coming semester.





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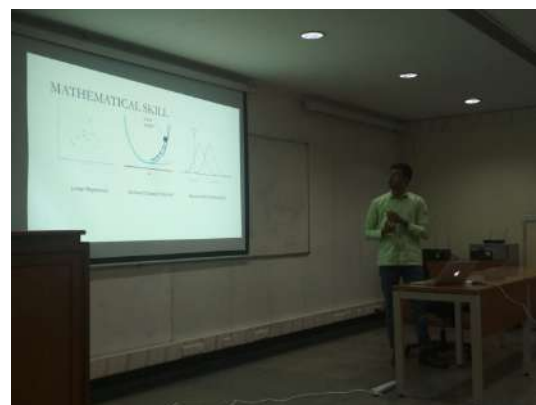
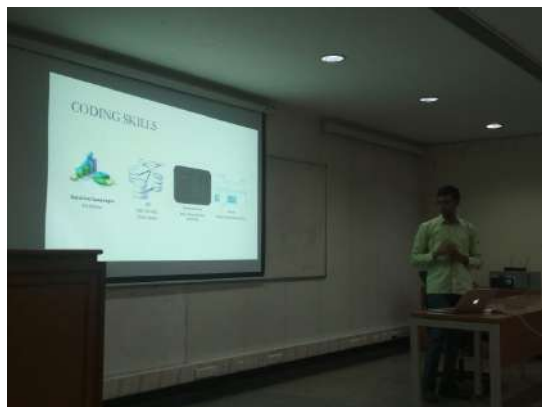
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Leadership Lecture Series by Md Danish Kalim

Md Danish Kalim, Senior Data Scientist at PayTm Labs, gave a talk on "[Machine Learning in Industry](#)" on 11th October 2018 at Cluster Innovation Centre.



He discussed the Mathematical tools and the coding tools needed for the application of Machine Learning and Artificial Intelligence in the Industry.



He also discussed the various problems that they are working on in their lab.





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NOTICE

Talk on India's Leapfrog into the 4th Industrial Revolution

Cluster Innovation Centre is organizing a talk on **India's Leapfrog into the 4th Industrial Revolution** by **Ms Vasudha Thirani**.

Date: 1st Feb 2019 (Friday)

Time: 11:00 am

Venue: Seminar Room, 1st Floor, Cluster Innovation Centre

Abstract:

Over 99% of Indian Adults now have a unique digital identity number. As the world enters the 4th Industrial Revolution, Indian platforms and agile policymaking have allowed India to leverage digital for holistic development. This lecture focuses on India's innovations that have allowed the country to make a quantum leap into the 4th IR.

About the Speaker:

Vasudha is a Senior Policy Associate in the Digital India Foundation and is affiliated with MyGov, the Government of India's participative governance platform. Her work with these institutions has been focussed on Tech-Policy and Industry Engagement, especially on the Digital Economy, Media, and Identity.

Vasudha has been a panelist and a thought leader at various discussions on Digital India and is a member of the WEF's working committee on 'Mitigating Risks in the Innovation Economy'. Prior to her work with the government, she has had experience in Impact Investing and Sales.



She completed her B.A. in History and Economics at the National University of Singapore, Young India Fellowship from Ashoka University and studied Public Policy, Digital and New Technology from Sciences Po.

All the faculty members and the students are invited to attend the talk.



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NOTICE

Leadership Talk Series – Talk on “Art of Decision Making”

Under the Leadership talk series of MHRD Innovation Council, talk on **Art of Decision Making** will be delivered by **Shri Ajit Doval** (National Security Advisor, Govt. of India). The Live session will be telecast as per the following schedule

Date: 14th Feb 2019 (Thursday)

Time: 11:30 am

Venue: Seminar Room, 1st Floor, Cluster Innovation Centre

INDIA FIRST LEADERSHIP TALK SERIES
Talk on: Art of Decision Making
Thursday, 14th February 2019, 11:30 AM

Watch on

Shri Ajit Doval
National Security Advisor, Govt. of India

Send Your Questions for
Shri Ajit Doval on www.mic.gov.in/questions.html
till 11th February 5:30 PM

Top 10 questions will get T-shirts

All the faculty members and the students are invited to attend the talk.



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Interaction with International Trademark Association

Cluster Innovation Centre is organizing an interaction with executives from International Trademark Association (INTA).

Date: 20th Feb 2019 (Thursday)

Time: 3:00 pm

Venue: Seminar Room, 1st Floor, Cluster Innovation Centre

The interaction will be a one hour session that would include Question and Answers from students and presentation. The presentation will explore the impact of counterfeit goods on students, their friends, families, and their communities; tips on identifying fake products; and actual counterfeit products for students to interact with, as well as information about the value of trademarks.

About the Speakers:

Rachna Bakhru Partner with RNA, Technology and IP Attorneys, IP specialist law firm. She currently heads the Dispute Resolution team of the firm, heavily involved in IP enforcement work including civil and criminal litigation. She qualified as a Science graduate from Delhi University, followed by a Diploma in Business Administration and Bachelors Degree in Law from Delhi University.



Natasha is an engineer, law graduate from Indian Institute of Technology, Kharagpur, advocate and registered patent agent who primarily deals with the prosecution of patent applications pertaining to the fields of software, electrical/electronics and mechanical engineering. Her work includes drafting patents, reporting examination reports issued by the Patent Office, advising clients on how to overcome prosecution hurdles and drafting responses to such reports based on client instructions. She has been advising clients on global patent strategy including PCT applications and national phases in designated countries.



All the faculty members and the students are invited to participate in the interaction.



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NOTICE: Webinar on **“Are digital innovation opportunities around the corner?”**

Cluster Innovation Centre is organizing a webinar on “Are Digital Innovation Opportunities Around the Corner”

Date: 8th May 2020

Time: 11:00 am – 11:40 am

Why digital innovation or transformation? is not a question anymore. Real questions are - What are the digital opportunities near us? Where are these digital opportunities? and How can we innovate? These 3 key questions will be explained through proven frameworks, leading global practices and case studies.

About the Speaker:



Dr. Dheeraj Bhardwaj

Group CEO

Arnab Mobility / Mawared Energy

Dheeraj Bhardwaj is Group CEO of Arnab Mobility & Mawared Energy Group based in UAE. Unique blend of experience ranging from intense R&D, technology start-ups through to large corporates and Strategy Consulting. Advised and consulted for a number of Government departments and businesses in the UK, India and Middle East on Strategy, Innovation and Technology implementations. Dheeraj's main areas of expertise are development and operationalization of strategies primarily for Real Estate, Retail, Oil & Gas and Transport sectors.

Played a major role in the development of India's Supercomputer PARAM and its applications, instrumental in transforming construction industry in the UK and Middle East, developed Innovation Strategy for \$25 bn Crossrail project in London and award winning “Dubai Innovation Index”. As a digital & innovation consulting lead of PwC, Dheeraj has developed a number of strategies for both public and private sector organisations across Middle East.

Dheeraj holds a PhD from IIT Delhi and MBA from Imperial College London, UK. Published c.50 research papers in reputed journals. Recipient of two Young Scientist Awards from the Government of India for his innovations and was invited to present his Innovations at NASA, USA.

All the faculty members and the students are invited to participate in the webinar. The link will be provided on the facebook page of CIC.