


### **Innovations in Robotics (Workshop)**

A workshop on Innovations in Robotics was organised by LEGO. Workshop was conducted on LEGO Mindstrom kit on 2<sup>nd</sup> December, 2014. Teachers and students of all departments participated in this workshop. The team of LEGO demonstrated the working of various kits. Hands on training was given by the team in order to understand the mechanism related to the kits.

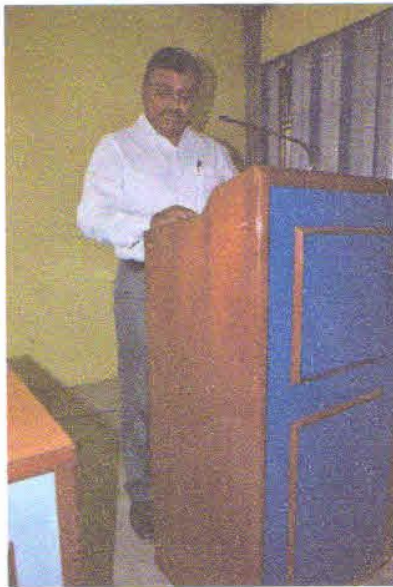
The students and the teachers found the workshop very knowledge. Prof. S. Saha coordinator of the workshop expressed his thanks to the team for conducting the program. He highlighted that such types of innovative workshops are necessary for the students as well as staff.





  
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### **Advancements in Mechanical Engineering**

A lecture on Advancements in Mechanical Engineering was conducted by Dr. R.K. Garg Professor in Mechanical Engineering Department of National Institute of Technology Jalandhar on 7<sup>th</sup> November, 2015. Dr. Garg shared his vast experience in the field of Mechanical Engineering. He motivated the staff members and students to keep on track with the advancements in Mechanical Engineering. He highlighted that keeping in view the advancements in the global market there is need to update the students. For this the students as well as staff members need to keep themselves updated and they require to do new projects and also patent their work.



  
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### Research and Innovation Centre Inaugurated and Seminar

Research and Innovation center was inaugurated by the honourable SGPC President. S. Avtar Singh ji on December 2015. The trust members, Principal Major General (Dr.) GS Lamba, VSM. Heads of various departments and deans were present during the inauguration function.

The inauguration function was followed by a lecture on INTELLECTUAL PROPERTY (IP), "CREATE INNOVATIONS - BUILD ASSETS by Dr. Harpreet Singh, from IIT Ropar. The staff of the institute and the guests attended the seminar. Dr. Harpreet congratulated the team BBSBEC for the inauguration of the Research and Innovation center. He retreated that there was a dire need of Innovation Center in the institute in order to keep pace with the changing technical environments. His lecture was followed by vote of thanks by the HoD (RIC) Dr. Niraj Bala.



*Niraj*  
(Dr. Niraj Bala)

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### Industry Academia Interaction Program

With an initiative to apprise the students about the trends and practices which are currently ongoing in the industry, BBSBEC successfully organized an Industry Academia Interaction Program from 2nd March to 4th March 2016. The partner companies who have signed a MOU were invited to deliver the interactive workshops/Seminars in this regard. The details of the same is given below:

- 2nd March 2016: A team from TCS ION visited the college to deliver the workshop on Android and Python 4th & 6th Sem students of CSE/IT and ECE were present for this workshop. Ms Manpreet Kaur & Ms Trupti delivered the workshop.
- 3rd March 2016: Mr Vikram Grover, Head NYX India Operations and Alternate Director of NYX Software Design PVT Ltd visited BBSBEC to deliver the workshop for Mechanical Engineering students of 4th & 6th Sem. Mr Grover shared various cost reduction strategies, multi-tasking and cross-functional techniques. He also briefed about the cost-effective manufacturing and tooling processes based on lean manufacturing.
- 3rd March 2016: Under Industry Academia Interaction Program Mr Japjit Singh Arora, Territory Sales Manager – Punjab from ACC Concrete, ACC Limited visited the BBSBEC campus to deliver an expert lecture for 4th & 6th semester students of Civil Engineering.
- Mr Jatinderpal Singh Manchanda, Guru Nanak Industrial Corp along with Ms Baljit Kaur Managing Director VMAD visited the college to mentor the 1st Year students. They effectively motivated the students about entrepreneurship setting their goals to achieve the excellence in their professional life.

  
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## Industry Academia Interaction Program

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### **Importance of Patenting**

A workshop on the importance of patenting was held on 19<sup>th</sup> April, 2016 in the auditorium of the institute. The morning session constituted of a presentation by Miss Kompal Bansal (Patent and Trademark Attorney) of Corporate Consultants. The students of first year attended the workshop. Through her presentation she motivated the first year students to carry out innovative research followed by the patenting of the same.

She expressed her concern that though we have many new ideas and sometimes we also make some new products through those ideas, but we don't go for protecting our rights. So she emphasized that we need to protect our rights by filing our work through patents. Followed by her lecture principal also gave a motivational speech to the students. Dr. Niraj Bala head of Research and Innovation center delivered her vote of thanks in the end.

After lunch the team from the Patents consultants had one to one interaction with the students and staff willing to patent their work. The Patents inventors willing to file patents interacted with the consultants in the RIC Lab. They discussed the problems they were facing in the documentation of the patent work.



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### **Academia innovative Practices**

Dr. Niraj Bala, Head of Department (Research and Innovation Center) gave a presentation on Academia Innovative Practices to the first year students on 29<sup>th</sup> July 2016. She explained the importance of innovative practices in Academics. She also highlighted the requirements of innovations in academics. Her presentation highlighted the importance of Innovations in the following points.

- Understating different types of IP and their significance.
- How to innovate: how to figure out a particular topic or technology to work on further in order to create innovations based on existing Patents database worldwide.
- Monetizing innovations: this included discussion on the importance of conducting prior art searches before filing a patent application, the importance of accurate drafting, filing of patent application in India as well as abroad. How to approach industries for commercialization of the innovation. Also, understating the concept of Technology Transfer with the example of few case studies.



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### **National Entrepreneurship Awareness Programme**

A Regional Centre for Entrepreneurship Development (RCED) and The Department of Science and Technology (DST) sponsored three-day National Entrepreneurship Awareness Programme being held at Deptt. of CSE, BBSBEC Fatehgarh Sahib on 27-29, September 2017 in which about 100 students from various state institutes participated. The session started with the talk of Mr. Satvinder Singh, consultant RCED. He emphasized the importance of entrepreneurship in today's world. Major Major General (Dr.) GS Lamba, VSM, principal addressed the students and encouraged them to participate in these kind of program. Dr. Baljit Singh Khehra, Head of Department (CSE) gave vote of thank. After that there was valediction of the program where certificates were distributed to the students. The program ended with an industrial visit to Sebiz Chandigarh. During this program two BBSBEC students Mr. Sanjeet Singh, and Mr. Amandeep Singh were honoured with Dr. Guralp Singh Memorial Educational Award. The program was coordinated by Er. Ishpreet Singh Virk under ACM student chapter program and hosted by Er. Perminder Kaur. Dr. Kanwalvir Singh Dhindsa, Dr. Niraj Bala, Er. Ravneet Kaur, Er. Gurleen Kaur Dhaliwal, Dr. Jaspreet Singh Oberoi, Dr. Lakhvir Singh, Dr. Gursewak Singh Brar, Dr. Bhupinder Singh Bhullar, Er. Deepak Aggarwal, Er. Gurbahar Singh, Er. Simrat Walia and Er. Sukhwinder Sharma were present at the occasion.



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## All India Seminar on Recent Innovations in Wireless Communication & Networking

All India Seminar on Recent innovations in Wireless Communication & Networking was held in collaboration with The Institution of Engineers (India), Madhya Marg, Sector 19-A, Chandigarh at Baba Banda Singh Bahadur Engineering College Fatehgarh Sahib (Punjab), on February 23-24, 2017. The students and staff members of the institute participated enthusiastically in the two day program. They interacted with the delegates of other institutes. Dr. Tara Singh Kamal Council member IEI (Punjab, Chandigarh Chapter) also participated in the event. Er. Sukhvir Singh Mundi honorary secretary IEI (Punjab, Chandigarh Chapter) delivered vote of thanks.



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## **Innovation and Research**

Innovation and Research is an important aspect for the engineering students. Dr. Niraj Bala HoD (RIC) while addressing the newly admitted students conducted a brain storming session on 18<sup>th</sup> July 2018. In her presentation she explained to the first year students how they can patent their ideas or inventions. She told them that the institute has collaborated with a consulting agents who help in the entire process of patenting and also in full examination. All the expenses of the patenting are borne by the institute. She explained in detail how the students need to fill a pie form if they have any new idea regarding a new product or design. After they have filled the pie form the pie form is evaluated by the consultants and then they inform us weather the work can be patented or not. The presentation was followed by brief discussion with the students.



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## Entrepreneurship Awareness Camp 2018

A 3-days Entrepreneurship Awareness Camp was inaugurated on 23 August 2018 at department of Computer Science and Engineering at BBSBEC in collaboration with Science and Technology Entrepreneurs Park (STEP-GNDEC), Ludhiana for boosting the spirit of entrepreneurship among the final year students of the college.

Day 2 of "Entrepreneurship Awareness Camp" was successfully concluded at the Department of Computer Science and Engineering at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib which was held in collaboration with Science and Technology Entrepreneurs Park (STEP-GNDEC), Ludhiana for boosting the spirit of entrepreneurship among the final year students of the college.



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### Technical Seminar on "Latest Trends in Mechanical Engineering"

Training & Placement department organized a Seminar on "**Latest Trends in Mechanical Engineering**" for the third year & final year students of Mechanical Engineering. Mr Neeraj Mahay (Sr. Design Engineer) & Mr Kuljeet Singh (Asth. Design Engineer) from GNA Gears delivered the session, where in they enlightened the students about the role of CAD, CAM, FDM, Computer Aided Engineering and Robotics in Mechanical Engineering field. Students were also explained about the CNC Programming (Manual & Automatic), Shop Floor Process, running in industries like Forging, Heat Treatment, Die department and Standard room etc. The company is also recruiting the final year students of Mechanical Engineering for their facility hence invited all the final year students of BBSBEC to appear in the Walk in Interviews to be held on 8<sup>th</sup> September 2018.



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## Innovation and Research

Head of Department of Research and Innovation Center (Dr. Niraj Bala) of Baba Banda Singh Bahadur Engineering College informed the first year students that they have a strong patent portfolio. In order to further strengthen Research and Innovation in the institute Dr. Bala motivated the newly admitted students to bring forward their innovative ideas so that these may be patented. She explained in detail the pie form which needs to be filed and sent to the consulting agent. The presentation ended with the discussion on how to develop a patent portfolio of BBSBEC- roadmap.



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## Entrepreneurship awareness camp

The 10<sup>th</sup> edition of **Entrepreneurship Awareness Drive** was conducted in association with Baba Banda Singh Bahadur Engineering College in the auditorium of Mata Gujri College on 4<sup>th</sup> October, 2019 in collaboration with **Entrepreneurship Cell, IIT Kharagpur**, a non-profit student organization, since its establishment in 2006. The **Entrepreneurship Awareness Drive (EAD)**, covers thousands of startup enthusiastic students and foster the spirit of Entrepreneurship among them.

The magnificent event saw a participation of over 400 students coming from various colleges across the city. The words of celebrated entrepreneurs and industrialists like Mr. Bhavish Sood, and Mr. Subinder Khurana, were remarkable. They both shared their experience as successful entrepreneurs. Students participated enthusiastically by asking various questions like how to get funding for the startup? What problems they face while working on a startup and many more. The speakers responded to their queries in a very remarkable way and inspired them a lot. A huge support was provided by **Major General (Dr.) GS Lamba, VSM**, Principal, BBSBEC, Dr. Kashmir Singh, Principal, Mata Gujri College, Dr. Niraj Bala HoD (RIC) and Mr. Peeyush

Entrepreneurship Awareness Drive, conducted by the E-Cell, IIT Kharagpur, comes every year to reinstate the spirit of Entrepreneurship among the college students of India. Starting from **10 cities** and **15,000 students** it has grown exponentially to **22 cities** and over **30,000 students** in its **10th edition held in 2018**. And the impact of this very Drive can be understood through the number of college-student-startups that participate in the annual global business model competition, Empresario conducted by E-Cell itself.

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