

ROBO MANIA

Department of Mechanical Engineering of Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib have organized Robo Mania, a challenging competition which enables the students to build and operate their own robots on 9th March 2018. Students of various departments participated in different events namely Robo Race and Line Following Robot. Prizes were distributed at the end of the event. Senior faculty members of the department gave feedback and their valuable suggestions to the participating students. Dr. Lakhvir Singh (Prof. & Head-ME, BBSBEC) appreciated the effort of the students. He said that such drives will be planned on regular basis in the campus. Worthy principal Major General (Dr.) G.S. Lamba shared his views regarding the importance of such events for the academic growth of the students





FESTO MOBILE EXPOTAINER

In order to familiarize our students with the various technologies used in Industrial Automation, Department of Mechanical Engineering of Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib in association with Festo, a leading German manufacturer of pneumatic components and electric drives used for automation, organized an exhibition on Low Cost Automation on 9th March 2018. For this purpose, a mobile van called 'Festo Expotainer' which is a custom built fully equipped exhibition vehicle built on Volvo Chassis having a wide range of Static displays of latest products along with Dynamic Application displays, was brought to the BBSBEC campus. It was an interactive and informative exhibition where Festo engineers were explaining the components and their applications. More than 400 engineering students (mostly 2nd, 3rd year and 4th year) visited the exhibition in small batches of 12 students each. In this exhibition the students were introduced to the concepts of pneumatic control. The equipment showcased included Process valves, Ultra compact maintenance unit, Valve terminals and CPX, Miniature drives, Actuator handling technology, Stepper and Servo motor applications, Systematic gripping, Tubings, Part sensing and vision apparatus, and complete range of push-in fittings. It also showcased Mechatronic systems designed for various industrial applications such as purely pneumatic pick and place loop mechanism. Videos were also played showcasing the wide range of R&D projects undertaken by Festo in recent years.

All the students enjoyed the experience and found it informative. The engineer from Festo also mentioned that he was impressed with the students' eagerness to learn about these latest technologies. Overall it was a good learning experience for the students as well as faculty members and many students plan to use the technology for making bigger and better projects.





Industrial Visit to Shreyans Industries Ltd, Ahmedgarh

The Mechanical Engineering Department of BBSBEC has organized industrial visit for 2nd year students of Mechanical Engineering to Shreyans Industries Ltd, Ahmedgarh. The company was established in 1979 and has been promoted by well-known Oswal family of Ludhiana. The company manufactures writing & printing paper from agro-based raw materials, having production capacity of 37000 Mts per annum. The students enhanced their technical knowledge and related their theoretical concepts by observing the working of fluidized-bed-combustion based boilers and its accessories, continuous digester system implemented on wheat straw for paper production and steam turbines. Students thus has seen the working of overall process of manufacturing writing & printing paper.

The visit started with a brief introduction and history about the factory by Mr Bhupinder Singh, Head, HR department. Then Mr Gupta, Manager Pulp Section, gave the information regarding the conversion of biomass (wheat straw) into pulp. He also said the quality of paper is continuously monitored and this process is totally automatic and thus excludes the chances of any human error.

Mr Jatinder Pal Singh, Incharge, Mechanical section, gave practical information about the various important machinery of the plant viz boilers, high and low pressure steam turbines and various boiler accessories.

After the visit is over a feedback was taken from the students by Prof Gurpreet Singh and Prof Ashish Kumar, who escorted the students to this visit. The students told that the visit was very informative and they are able to see in actual the working of boiler, low and high pressure steam turbine apart from seeing the various other technical components.

Dr. Lakhvir Singh, Head of Department, has said the visit is aimed at giving students the technical exposure about various mechanical processes going in Shreyans Industries Ltd, Ahmedgarh. (Dr) GS Lamba, Principal has said that such tailored visit develops the

thought process of our students and helpful in relating their theoretical concepts with practical applications.



Placement drive by Eicher Tractors

Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib is continuously putting its efforts to provide the best placement opportunities to its budding engineers by inviting the reputed companies for the campus placements. Latest to the series is the name of Eicher Tractors, one of the oldest names in the industry, a reputed brand in the agriculture vista. The students of B.Tech (Mechanical) & Diploma (Mechanical & Automobile) appeared for the recruitment process.

The company delegation headed by Ms. Ritu Mahajan, HR Manager and Mr Shivam Chawla, Industrial Relationship Officer interacted with students and briefed them about company and its operations in India and abroad. Ms Ritu Mahajan highly appreciated the college infrastructure, departmental labs and teaching learning facilities provided by the college to its budding engineers. In the day long interview process finally 12 students of B.Tech (Mechanical) from BBSBEC got selected .

On this occasion Dr. G. S. Lamba, Principal, BBSBEC said that college has emerged as a leader in placements and every year, the number of participating companies escalate giving students a wider range of opportunities to spring their career. The college Training & Placement head Dr. J S Oberoi also congratulated the selected students and thanked the Eicher Tractors officials for providing the opportunity to the students.







PRADHAN MANTRI KAUSHAL VIKAS YOJNA

The inauguration of 18 Skill Training Programs under Pradhan Mantri Kaushal Vikas Yojna (PMKVY) and a certification course in collaboration with NIELIT (Ropar) at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, was held on 7th Sept. 2018. Principal Major General (Dr.) GS Lamba welcomed the Chief Guest S. Mahinder Singh Ahli (Secretary Trust), the Trust Members S. Karnail Singh Panjoli, S. Ravinder Singh Khalsa and S. Avtar Singh Riya. Heads of various departments including Dr. R.S. Uppal, Dr. Lakhvir Singh and Dr.G.S. Brar were also present. A total of 18 courses are approved, out of which 7 courses were sanctioned for ECE dept., 5 courses for ME dept. and 6 for EE dept. In addition, a certification course DATA ENTRY AND OFFICE AUTOMATION in collaboration with NIELIT (ROPAR) is approved for ECE dept.





Teachers Day Celebrations

To mark the great Teacher & Philosopher, Dr Sarvapalli Radhakrishnan's Birthday, Teachers Day was observed and celebrated by Students of Mechanical Engineering Department of Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib. Both the students & staff of the college gathered joyfully for the celebration.







Patent Granted to Baba Banda Singh Bahadur Engineering College

Quality of any Higher Education Institute can be judged by its Research environment and achievements. Baba Banda Singh Bahadur Engineering College has created an excellent Research environment and a dedicated Research and Innovation Centre (RIC). In its successful efforts, the college has submitted nine Patents, one of those has been granted on September 07, 2018 for an invention entitled “Erosion-Corrosion Resistant Coating for Power Plant Boilers” under the Patent No. 300838 by The Patent Office, Government of India. The joint inventors of this patent are Dr. Manpreet Kaur (BBSBEC, FGS); Dr. Harpreet Singh (IIT Ropar); and Dr. Satya Prakash (IIT Roorkee).





INDUSTRIAL VISIT TO SWARAJ TRACTORS, SAS NAGAR

The Mechanical Engineering Department of BBSBEC has organized industrial visit for Final year students of Mechanical Engineering to Swaraj Tractors Ltd, SAS Nagar on 27th September 2018. The company was established in 1965 as Punjab Tractors Limited (PTL) and has been promoted by well-known Mahindra & Mahindra family. The company manufactures tractors from 15 HP to a 60 HP category, which cater to the farmers need for various agricultural operations. The students enhanced their technical knowledge and related their theoretical concepts by observing the working of the state of art tractor manufacturing plant.

Swaraj Tractors Limited, a leading tractor manufacturer in the country, is located at SAS Nagar, near Chandigarh, Punjab. In the last thirty nine years, the company has developed ten tractor models with a more than a hundred variants. Besides this the company has also diversified in the area of forklift trucks, threshers and the harvester combines. Apart from India the company has also expanded its market overseas to select African and SAARC nations and thus has become the second largest manufacturer of tractors in the whole world.

After the visit is over a feedback was taken from the students by Prof Sanjiv Sharma, Prof Sanjeev Bhandari and Prof Amardeep Singh, who accompanied the students to this visit. The students told that the visit was very informative and they are able to see in actual the working of various technical components.

Dr. Lakhvir Singh, Head of Department, has said that the visit is aimed at giving students the technical exposure about various mechanical processes going in Swaraj Tractors, SAS Nagar. Dr Lakhvir said that BBSBEC was organizing such events from the last 25 years and will also organize such events in future also to enrich the learning of the students. Dr GS Lamba, Principal has said that such tailored visit develops the thought process of our students and helpful in relating their theoretical concepts with practical applications.



IEI Student's Mechanical Chapter BBSBEC successfully organized College level Quiz Competition'18

IEI Student's Mechanical Chapter of BBSBEC successfully organized College level Quiz Competition'18 on October 9th, 2018. Around 100+ students from various departments of the college has registered for Quiz prelims, out of which 5 teams accompanying 2 students in each team, were shortlisted on merit for the finals. This Competition comprised of technical, social, general science, politics & GK related questions. All the present dignitaries appreciated the efforts and encouraged student's spirit and enthusiasm. Principal Sir, specially congratulated the participants who have participated and also to the winners; He also congratulated the student volunteers who successfully conducted this whole event by their effective leadership & event management qualities. He wishes that in future more such type of events should be organized with a mass participation from the students. Winners of this quiz competition were facilitated by secretary trust S. Mohinder Singh Ahli, college Principal Maj. Gen. (Retd.) (Dr.) G.S. Lamba, Dr. Lakhvir Singh HOD Mechanical Engineering Dept. and Dr. Niraj Bala HoD (RIC) BBSBEC. During the valedictory ceremony. Dr. Lakhvir Singh, Dr. H. S Bhatti, Dr. Niraj Bala, Dr. Manpreet Kaur and Dr. Amandeep Singh gave participation certificates to all the participating students & wished them good luck for the upcoming opportunities.





ALL INDIA SEMINAR
ON
MICRO MACHINING

Department of Mechanical Engineering of BBSBEC, Fatehgarh Sahib organized 'All India Seminar on Micro Machining', in association with the IEI (India) from October 25th & 26th 2018.

The convener of the Seminar Dr. Lakhvir Singh (Head of Mechanical Engineering Department) welcomed Chief Guest Dr. Alakesh Manna, Senior Professor, Mechanical Engineering Department, Punjab Engineering College, Chandigarh, Er. Sukhvir Mundi, Honorary Secretary of the Institution of Engineer (India), Dr. Tara Singh Kamal, Council Member (IE) and Retd. Maj. Gen. Dr. G S Lamba, Principal, BBSBEC in the Inaugural Session and released the proceedings of the seminar.

The key note speaker Dr. Alakesh Manna, shared his views on the latest research on the smart materials and their application in the micro machining domain.

Dr. N P Singh Deo, Co-convener of the seminar, highlights about the seminar theme. Almost 45 research article have been received in the seminar from all over the state, out of which 25 research papers were screened out by the review committee. The presentations were made in four sessions over a period of two days.

Worthy principal Major General (Dr.) G.S. Lamba shared his views regarding the importance of such events for the academic growth and acknowledged the benign presence of the distinguished guests and appreciated the zeal of the organizers.

Dr. Lakhvir Singh, Professor and Head, ME, BBSBEC, Fatehgarh Sahib and convener of this two days seminar conveyed his heartiest thanks to all the dignitaries, delegates, young researchers, organizers and college staff members for their efforts and participation in making the seminar a remarkable journey which came to an end with fruitful gains to the like-minded engineering community.

Er. Sukhvir Mundi, Honorary Secretary of the Institution of Engineer (India) thanked Baba Banda Singh Bahadur Engineering College for organizing such an important seminar based on the theme which is need of the time.

During the valedictory ceremony, Dr. Lakhvir Singh, Dr N P Singh Deo, Er. Sukhvir Mundi, Dr. Tara Singh Kamal and Dr G S Lamba gave participation certificates to all the participating students & wished them good luck for the upcoming opportunities.



Placement drive by Madhav Udyog, Gobindgarh

04 Graduates of Mechanical Engineering, Batch 2018 pass-out, have been selected in Madhav Udyog, Gobindgarh a company of Madhav Group in In-campus Placement Drive held on 26/10/2018.





