



NEWSLETTER 2019

BBSBEC



**BABA BANDA SINGH BAHADUR
ENGINEERING COLLEGE
FATEHGARH SAHIB**

President's Message



Bhai Gobind Singh Longowal
President, SGPC & Trust

To support the cause of technical education in the state of Punjab, the SGPC a religious body, known as the mini parliament of the Sikh community, established its 2nd Engineering College at Fatehgarh Sahib in the year 1993 in the name of Baba Banda Singh Bahadur the great warrior, who laid to rest the tyranny of the Mughals uprooting their empire. The institute is being run by Baba Banda Singh Bahadur Education Trust, Fatehgarh Sahib under the patronage of the SGPC. In a period of 24 years the college has fully developed into a well-known engineering institute and now it is considered as one of the leading institutes in the country for imparting high quality technical education and providing top class amenities & facilities. It has the honour of being the first institute affiliated with PTU to get its courses accredited by the NBA the hallmark of quality education, infrastructure, facilities, amenities etc. The college has state-of-the-art infrastructure highly qualified, experienced and dedicated faculty. It is the first college in PTU to start BTech. Agriculture Engineering To cater to the need of diploma-level technical education in the area, Baba Banda Singh Bahadur Polytechnic College was set up at Fatehgarh Sahib in 2006. The college provides modern infrastructural and technological support to facilitate teaching learning and overall development of students. The college education system looks beyond employment and concentrates on individual development by imparting them skills for life time relevance. Academic excellence and holistic education define learning at the college. Within a period of 10 years, it has become one of the most sought after institutes for admission. Considering the need and demand of the area, Baba Banda Singh Armed Forces Preparatory Academy was established at Fatehgarh Sahib in April 2016 for training the selected young boys and girls from Punjab for permanent commission into the armed forces through the National Defence Academy. From 2017 session, a graduate plus integrated course is commencing for girls preparing them for Women Entry Scheme into Defence Forces as Officers through SSCW (NT) scheme. The students joining these prestigious institutions would get quality education & training with topclass facilities & amenities and, I am sure, they would become good citizens and contribute to the welfare of humanity

Secretary's Message



S. Mahinder Singh Ahli

We have witnessed phenomenal growth in technical education in the country, in recent times. This has been possible mainly by the private sector institutions off-loading the government expenses and contributing immensely to the growth of technical education at diploma, under-graduate and post-graduate level. The massive turnout from these institutions provided the much needed professional manpower to boost the economy. Baba Banda Singh Bahadur Engineering College and Baba Banda Singh Bahadur Polytechnic College, known as top-class Sikh minority institutes, came into existence in the year 1993 and 2006 respectively at Fatehgarh Sahib, the most precious and sacred land in the world, where the younger Sahibzadas of Guru Gobind Singh ji - Baba Zorawar Singh ji and Baba Fateh Singh ji were bricked in alive. The main objective of establishing these institutes, under BBSB Education Trust, by the SGPC was to uplift the regional students, who were deprived of engineering education opportunities as compared to their counterparts in other states. The college campus exhibits professional environment prevailing among the students and the faculty. The labs, equipped with the latest set-ups of international repute, reflect our professional commitment to the industry. You will be amazed to see how beautifully the institution has created the facilities for the students - Every aspect has been taken care of as far as the all-round development of the students is concerned.

I wish all the students achieve excellence in their respective areas and bring name & fame to their Alma mater.

Principal's Message



Awarded Vashisht Sewa Medal by the President of India

In today's world, globalization is rapidly increasing, bringing with it expanded personal mobility; access to knowledge across borders; increased demand for higher education, growing worldwide investment; and increased needs for continuing education. The twenty first century undoubtedly belongs to the men and women of strength and excellence in professional fields.

We staunchly believe that freedom of individual development is the basis of democracy. Intellectual progress demands the maintenance of the spirit of free inquiry. The pursuit & practice of truth regardless of consequences should be the only ambition of institutions of higher education. Education, one of the human resource development strategies, is a powerful tool for peaceful social transformation, overall development and prosperity of any nation. It should be free from the shackles of ignorance, prejudice and unfounded belief. Education is an important index of human development. Higher Education is indeed a vital tool for intellectual, cultural, aesthetic development and a means for achieving wider social aspirations. Baba Banda Singh Bahadur Engineering College is a premier institution of higher education. We endeavor to nurture our biggest asset; our students as holistic world citizens driven by human values and wisely equipped to excel on a global stage. We focus on each student, to bring out their full potential and empower them with a winning attitude.

Major General (Dr.) Gurcharan Singh Lamba, VSM (Retd), Principal

OUR MISSION

To evolve as an eminent Centre of Learning with total commitment to provide career focused technical training aimed at excellence in interdisciplinary education, research and innovation in order to produce socially responsible and synergetic leaders with a global profile.

OUR VISION

The Baba Banda Singh Bahadur Engineering College seeks to enrich the academic experience of students to help them meet the evolving needs of society. We aspire to realize our vision as follows:

- Conduct UG programs that integrate global awareness, communication skills and team building across the curriculum.
- Run Graduate education programs to prepare students for interdisciplinary engineering research and advanced problem solving with focus on career advancement.
- Provide an atmosphere to facilitate personal commitment to the educational success of students in an environment that values diversity and community.
- Inculcate a high regard for ethical principles and an understanding of human and environmental realities
- Provide state-of-the-art facilities and effective delivery of high quality content by qualified faculty members to build the notion of lifelong learning.
- Conduct scholarly activities that create and transfer cutting-edge knowledge in the area of engineering and technology.
- Create a highly successful alumni base that contributes to global society

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- Alumni Meet – 2018
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DEPARTMENTS

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- Civil Engg
- Computer Science Engg
- Electrical Engg
- MBA
- Admission Workshops

Faculty Achievements: Doctorates in 2018



Dr. Navneet Kaur

Dr. Navneet Kaur, Asstt. Professor, Deptt. of Computer Science & Engineering , completed her Ph.D. titled "Design of Energy Efficient Framework for Wireless Body Area Networks (Supported by One SCI Publication) from Panjab University, Chandigarh.



Dr. Raju Sharma

Dr. Raju Sharma, Asstt. Professor, Electronics & Communication Engineering Department for successfully completing her Ph.D. titled "Efficient Routing Protocol in Wireless Body Area Networks" from IKG Punjab Technical University, Kapurthala.

Faculty Achievements: Doctorates in 2018



Dr. Amandeep Singh

Prof. Amandeep Singh, Asstt. Professor, Mechanical Engineering Department for successfully completing his Ph.D. titled "Development and Characterization of Stir Cast Magnesium Metal Matrix Composites" from IKG Punjab Technical University, Kapurthala.



Dr. Harmesh Kumar

Prof. Harmesh Kumar, Asstt. Professor, Mechanical Engineering Department for successfully completing his Ph.D. titled "Experimental Investigation during CNC Machining of Aluminium Matrix Composites for Parametric Optimization and Fault Diagnosis" from SLIET (Deemed University), Sangrur.



Dr. Jaspal Singh Khinda

Prof. Jaspal Singh Khinda, Asstt. Professor, Deptt. of Electronics & Communication Engineering for successfully completing his Ph.D. titled "Design Simulation and Fabrication of Broadband Fractal Antenna for Wireless Communication Systems, from Amity University, NOIDA.

Research & Development: Patents



A patent 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 patent was successfully filed by Technology Information Forecasting and Assessment Council (TIFAC), New Delhi in January 2013. It has been granted a full term of twenty years starting from 23 Jan 2013. The joint inventors of this patent are Dr. Harpreet Singh (IIT, Ropar); Dr. Manpreet Kaur (BBSBEC, FGS); and Dr. Satya Prakash (IIT, Roorkee).

Research & Development: Patents



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 filed nine Patents. One patent titled **EROSION CORROSION RESISTANT COLD SPRAY COATINGS FOR BOILERS Ni-20CrTiCRe** (Patent No. 305383) has been granted on 4th January 2019 by The Patent Office, Government of India. The joint inventors of this patent are Dr. Niraj Bala (BBSBEC, FGS); Dr. Harpreet Singh (IIT Ropar); and Dr. Satya Prakash (IIT Roorkee). In the present invention new coatings have been designed to be deposited on the boiler tubes used in thermal power plants which would ultimately lead to an increase in efficiency of power plants. Maj. Gen. Dr. G.S. Lamba, Principal of the college congratulated the inventors for their successful innovation and reiterated that the research environment will be further enhanced with active partnership of college with Industry.

Foreign Visit



Dr Baljit Singh Khehra, Head of Computer Science & Engineering Department, presented his paper in 3rd international conference on Image Processing Application and System (IPAS) on 12-14 December 2018, Inria Saphia Antipolis



Dr. Raminder Singh Uppal, Head of Electronics & Communication Engineering, visited to Technische Universität Dresden(Germany) under DAAD funding research project of German Academic Service.

Alumni Meet 2018---BBSBEC FGS

Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib organized the Alumni Meet 2018 on 3rd November, 2018. About 100 alumni of different streams from batches 1993 to 2014 attended the reunion of their alma-mater. The alumni interacted with faculty and students and shared their expertise and experiences. The Principal, Dr. G. S. Lamba inaugurated the alumni meet and acquainted them with the various achievements of the college. Dr. Manpreet Kaur, Convener, Alumni meet delivered the welcome speech and appreciated the participation of alumni. She briefed the alumni about the new initiatives that are being taken by BBSBEC Alumni Cell. The alumni cherished the pleasant and memorable experiences they had, while being students at BBSBEC, Fatehgarh Sahib. The institute also invited and collected feedback from the alumni regarding the changes in the curriculum taught to students. Various Heads of Department and Deans (Dr. Lakhwinder Singh, Dr. APS Sethi, Dr. Lakhvir Singh, Dr. Baljit Singh, Dr. R S Uppal, Dr. GS Brar, Dr. B S Bhullar, Dr Anshu Tomar. Prof. J A Ratol) conducted the interaction programs of the present students with the alumni. The distinguished alumni motivated the students and provided guidance in the area of career growth and building successful career. The interaction with the alumni, touched upon various topics including contribution of alumni in placement, conduct of knowledge sharing sessions assistance for internships and other social service activities. The alumni enjoyed the cultural program by students of the college, which proved to be a great entertainer. Our Alumni Sunil Sharma, Batch 1997, ME from United Kingdom and Mohit Kharbanda, Batch 2005, EE shared their views through Skype. The Dean Academics, Dr. Lakhwinder Singh ended the cultural function with proposing the Vote of Thanks. The meet came to an end at 3 pm.



Sports Club Activities



HOCKEY TOURNAMENT



SWIMMING COMPETITION

Sports Club Activities



2nd prize Badminton in khalsai games goes to BBEBEC (women)



1st prize 1500 meter in khalsai games goes to BBSBEC (mens) by Tarsem

Sports Club Activities



Khalsaikheduttsav 2018



2nd Prize in khalsai games goes to BBSBEC (women)

Fateh Marathon

Fateh Marathon was organised by Baba Banda Singh Bahadur Engg. college on 13-Oct-2018 to celebrate birth anniversary of Baba Banda Singh Bahadur.



Cyclothon

Cyclothon was organised by Baba Banda Singh Bahadur Engg. college on 13-Oct-2018 to celebrate birth anniversary of Baba Banda Singh Bahadur.



Guru Gobind Singh Study Circle: Activities

Most Aware Singh and Kaur-2018



Gakta on Most Aware Singh and Kaur -2018

Sehaj Path Sahib



Sikhi Kids Holiday Camp



Personality Development Camp



Departmental Activities

Mechanical Engineering Department

ROBO MANIA



INDUSTRIAL VISIT



FESTO MOBILE EXPOTAINER



INDUSTRIAL VISIT TO SWARAJ TRACTORS, SAS NAGAR



Industrial Visit to Shreyans Industries Ltd, Ahmedgarh

PLACEMENTS



Placement drive by Eicher Tractors



Placement drive by MadhavUdyog, Gobindgarh

PRADHAN MANTRI KAUSHAL VIKAS YOJNA



Patent Granted to Baba Banda Singh Bahadur Engineering College



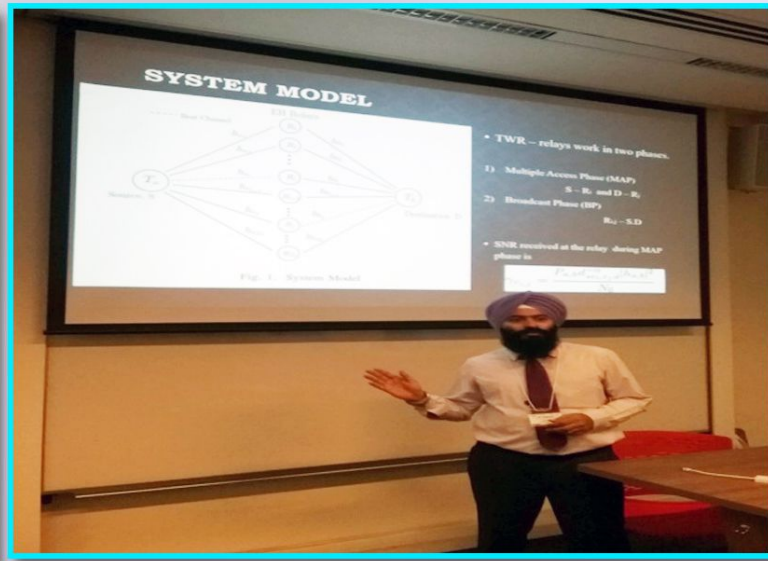
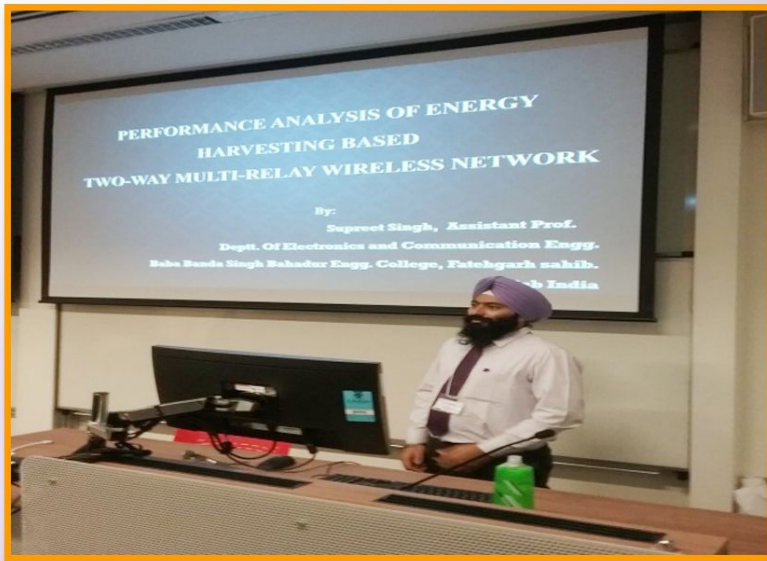
ALL INDIA SEMINAR ON MICRO MACHINING



TEACHERS DAY CELEBRATIONS



Electronics & Communication Engineering



Dr. Supreet Singh Presented Paper in international conference at Sydney Australia
Inauguration of PMKVY courses approved by AICTE under skill development program



Dr R S Uppal (HOD ECE) giving the brief introduction S Mahinder Singh Ayali (Hon. Secretary) congratulated about the PMKVY courses being started in ECE Deptt and encouraged the faculty and staff.



Principal Maj Gen (VSM) DR. G S Lamba facilitating Dr. Ajay Sharma (V C IKGPTU) at the Valedictory



Certificate distribution Ceremony at IEI Chandigarh for the workshop.

Workshop on Role of Embedded System in Wireless Sensor Networks



On the dais during inauguration: Er. Mandeep Kumar, Dr. T.S. Kamal, Dr. Prashant, Er. S.S. Mundi

Chief Guest
Dr. Prashant Being Honoured



Dr Prashant Kumar delivering expert lecture during the workshop



Dr Tripatjot Singh Panag (convener) delivering the vote of thanks



One Day workshop On Robotics



Inauguration of one day One Day workshop On Robotics



Students during practical session



Paper Presentation

Civil Engineering

Inauguration function of Institute of Engineer's, Student Chapter 28 March 2018. An expert lecture cum inauguration session of Institute of Engineer's, Student Chapter, was organized by Civil Engineering Department on 28th March 2018.



Expert delivering the lecture on importance of GATE Exam



Expert delivering the lecture on basics of structural Engineering

Expert, HOD and IE faculty and student team members having a group photograph



Speaker facilitated by guest of honour on behalf of Civil Engineering Department BBSBEC Fategarh Sahib





A session was organized on 5th Feb. 2018, by Bentley's for Civil Engineering students at BBSBEC campus. Two way conversation session was organized for a duration of 75 minutes in which students from 2nd, 3rd & final year participated. In this session Mr Rominder Singh Bedi along with his team mates discussed the role of various software and their use in different fields as a Civil Engineer.



Teacher's Day is celebrated on September 5 every year throughout India in memory of Dr. Sarvapalli Radhakrishnan on his birthday. Student of civil engineering organized a special event to celebrate the day. Dr. Anshu Tomar HOD Civil Engineering Department addressed the students and encouraged them to become successful and fulfill their dreams.

BRICK SOCIETY 2018

Civil Engineering Department organized a 2-day competition on 30-31 October 2018 in the department. The event is managed by B.R.I.C.Ksociety. The society organize various competitions for the Civil engineering students only. Following activities were done in the two day event.

- Science Innovative Model
- Slide Making
- Collage Making
- Quiz Competition
- Best out of waste
- CV Writing



SURVEY CAMP 2018

Survey Camp has been organized by the department of Civil engineering at Shogi (Himachal Pradesh) from 02-07-18 to 12-07-18 for the purpose of providing practical knowledge and fulfilling the requirement of 5th semester syllabus. Working in actual field conditions enhances student's theoretical and practical knowledge and increases their confidence that will be beneficial to their professional practice in the near future.



INDUSTRIAL VISIT

Department of Civil Engineering of BBSBEC, Fatehgarh Sahib organized a Industrial visit on 15 September, 2018. This Visit is designed to impart knowledge to students regarding advancement in concrete technology and structure engineering.



Computer Science & Engineering



IIT-Bombay Spoken Tutorial Online Tests successfully conducted at BBSBEC on 5th April 2018



2-days Python workshop for Faculty and Research Scholars from 22-23rd March, 2018

Digital Marketing Workshop held on 11th -12th September, 2018 in association with The Institution of Engineers (India).



Wireless Sensor Network Workshop held on 20 August, 2018 in association with The Institution of Engineers (India).



Linux Essentials & Administration Workshop held on 4th October, 2018 in association with student chapter of ACM.



Android Workshop on 27-28th , August 2018

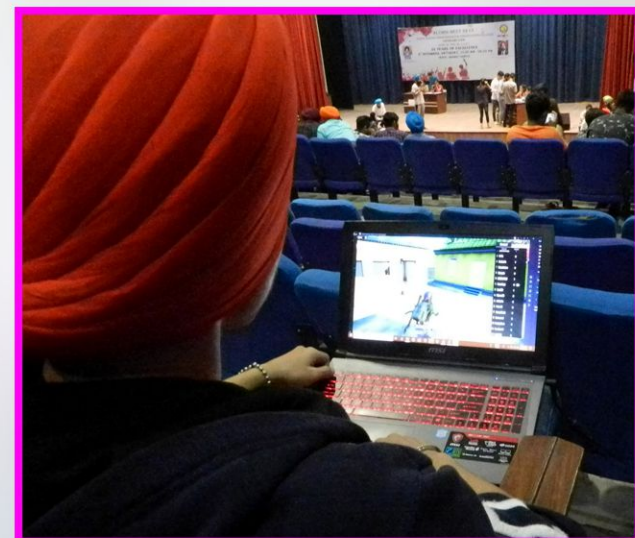
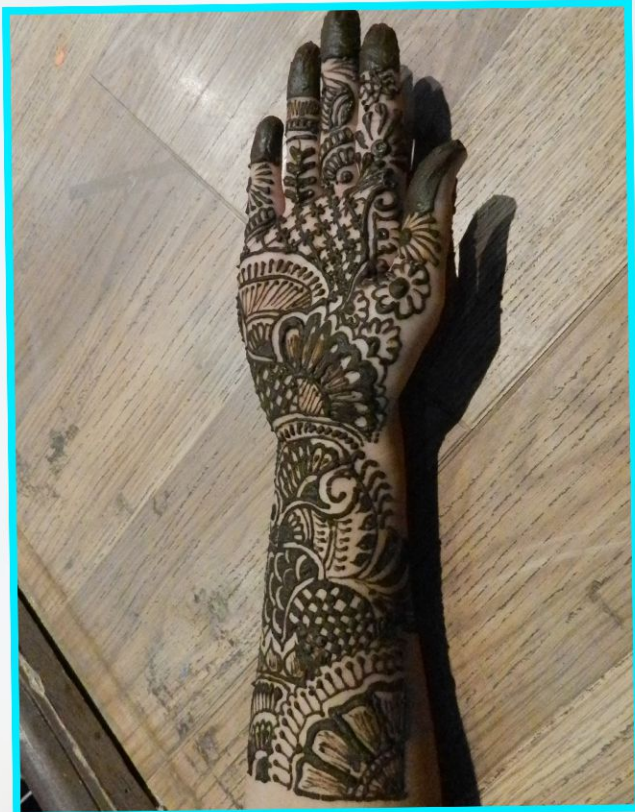


INDUSTRIAL VISIT

Industrial visit to BeBo Technologies ,Chandigarh on 7th September 2018



Funista: Pub G, Luddo, Mehandi, Painting

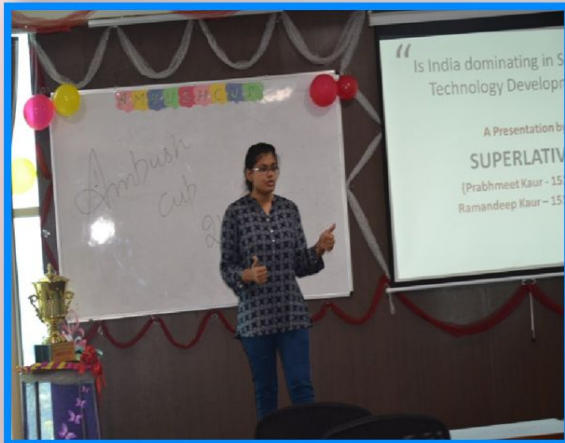


Seminar on Saragarhi Day 12th Sept. 2018



Electrical Engineering Department

Ambush Cup 2018



All India seminar on Renewable Energy Technologies: Perspective and Challenges

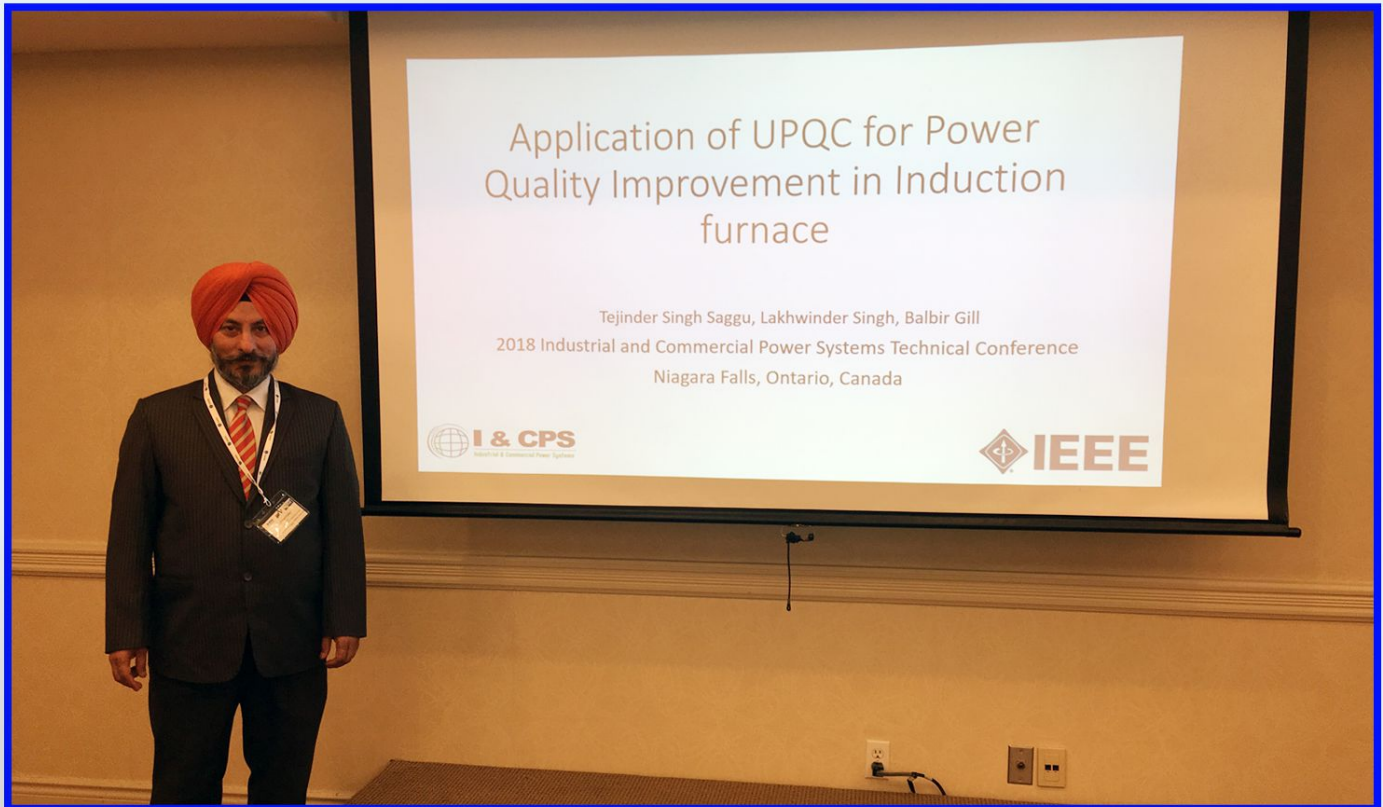


World Energy Conservation Day



IEEE 54th TECHNICAL CONFERENCE

Dr. Lakhwinder Singh presented his paper in prestigious IEEE 54th Industrial and Commercial Power Systems Technical Conference at Niagara Falls Ontario, Canada in May 2018



Master of Business Administration (MBA)

MBA Fresher Party



State Level Debate Competition on Energy Conservation and Energy Efficiency



INDUSTRIAL VISIT



Industrial Visit at Verka Milk Plant, Patiala



Industrial Visit at Blue Star Ltd, Kala Amb

Admission Workshops



Admission Workshops



Admission Workshops



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