

# CONVOCATION 2018

## 17 FEBRUARY 2018

**BABA BANDA SINGH BAHADUR ENGG. COLLEGE  
FATEHGARH SAHIB-140407 (PUNJAB) INDIA**

**An Institute Accredited by  
National Board of Accreditation (AICTE)  
Institution of Engineers (India) and IAO**

# Baba Banda Singh Bahadur



With the grace of Guru Gobind Singh Ji, Madho Dass, a Bairagi Saint was transformed into a great Warrior known as Baba Banda Singh Bahadur. The Guru assigned him the holy task of punishing the tyrant rulers of Punjab and bestowed him with five arrows from his own quiver. Under the leadership of this awe inspiring & dynamic personality, the downtrodden and deprived people of Punjab defeated the despotic rulers and rose to power. This opened flood gates of prosperity for the people of Punjab and changed the destiny of India.

# COLLEGE REPORT

**Hon'ble Dr Sarit Kumar Das, Director, Indian Institute of Technology, Ropar,** Dr Shyam Sunder Pattnaik, Director, National Institute of Technical Teachers' Training and Research, Chandigarh, **Hon'ble Bhai Gobind Singh Longowal, President, SGPC and Baba Banda Singh Bahadur Education Trust,** members of Baba Banda Singh Bahadur Education Trust, heads of various institutions, distinguished guests, members of the electronic and print media, my esteemed colleagues, dear graduates, post graduates and their parents, it is a matter of great privilege and delight for me to welcome you all to the Convocation 2018.

It is a matter of great honour for this institute that **Dr Das** has very benevolently accepted our humble request to be among us on this occasion as the Chief Guest. On behalf of the trust, faculty, staff and students of the college, I extend heartiest welcome to you, Sir. Your benign presence is gratifying to the young graduates and all of us present here.

**Dr Pattnaik**, who is also a well known name in the Field of Electronics, very graciously accepted our request to grace this academic celebration as the Guest of Honour. We welcome you Sir and feel honoured to have you with us and bless the graduates.

**Bhai Gobind Singh Ji Longowal**, with his wisdom and support is continually working to take the college to greater heights and is gracing the event with his presence. We welcome you Sir to share your knowledge and experience with the graduates that will be beneficial to them in all walks of life.

Our institute, named after the great Sikh Warrior Baba Banda Singh Bahadur, who laid to rest the despot Mughal rule, was established in the year 1993 through the diligent efforts of Panth Rattan Late Jathedar Gurcharan Singh Ji Tohra. He did a yeoman's service in imparting technical education to the youth of rural Punjab. The college grew in leaps and bounds under his able guidance. The College Trust, headed by Bhai Gobind Singh Ji Longowal, President, Shiromani Gurdwara Prabandhak Committee and comprising eminent scholarly and renowned personalities of the region, is committed to transform the institute into a world-class technical Institution. Under the able-guidance of the Trust, the college is consistently working to fulfill its mission of molding youth into world-class technocrats who would endeavour to enhance the quality of life for human kind.

BBSBEC was the first college among the PTU affiliated colleges to earn the accreditation of its programs by the National Board of Accreditation (NBA) in the year 2004, 2008 and again in 2017. In addition to the NBA accreditation, the programs are also accredited by the Institution of Engineers (I) and International Accreditation Organization.

## **INFRASTRUCTURE**

The college has a sprawling pollution-free Wi-Fi campus spread over 90 acres of land in the heart of District Fatehgarh Sahib. Fatehgarh Sahib has an ideal geographical location with the proximity to three important cities of the region i.e. Chandigarh, Ludhiana and Patiala.

- **Administrative/ Academic Blocks :** The college houses four academic blocks, including the international standard, centrally air-conditioned, seven storey building. This is aimed to provide top class academic facilities – lecture halls, tutorial rooms, well-furnished seminar halls, laboratories, drawing halls and administrative offices.
- **Auditorium :** The college has a state-of-the-art auditorium with a seating capacity of 750. It provides an ideal environment to conduct central extra-curricular activities.

- **Workshop:** The workshop block housing the Machine Shop, Welding Shop, Carpentry Shop, Fitting Shop, Foundry Shop and Smithy Shop has 1500 square meters of covered area. All the required shops are equipped with the modern equipment for all the streams of engineering.
- **Student Center :** The student center comprises a spacious Canteen and a Stationery Shop.
- **Seminar Halls :** There are nine air-conditioned fully furnished seminar halls equipped with the digital projectors, high quality sound systems, computers and Internet access. These seminar halls serve as a platform for conducting various lectures/seminars by eminent personalities from industry & academia.
- **Central Library :** The college library has a stock of 38081 books of a total of 8201 titles and subscribe to more than 5000 e-books. It also has more than 1500 books on general topics on language, personality development and literature. To inculcate and grow the research environment among students and faculty, access to more than 750 International and national e-journals of repute in diverse fields is made available as prescribed by faculty and regulatory agencies. Library can accommodate 125 students having internet access through 100 wired nodes as well as Wi-Fi connectivity.
- **Digital Classrooms :** The college has also set up twelve digital classrooms equipped with modern pedagogical techniques.
- **Guest House :** The guest house has eight well-furnished air-conditioned rooms, a dining hall and a beautiful lawn with all the modern facilities and Wi-Fi internet connectivity. An outhouse has recently been added.
- **Fitness Center and Stadium :** The College houses an international standard gymnasium with the modern exercising equipment. The stadium has ample space for indoor and outdoor games and a 400-metres Athletic track.
- **Swimming Pool :** An indoor swimming pool of international standards is provided for both the staff and the students.
- **Hostels :** The total capacity of four boys' hostels is more than 1100 and that of two girls' hostels is 600. All the hostels have been provided with the Wi-Fi facility. Exclusive facility of air-conditioned rooms is also available.
- **Staff Residences :** To cater to the needs of the staff, the college has sufficient and spacious campus accommodation in the form of 88 Flats in various categories.
- **Power Systems :** The college has its own Electrical Sub Station of 11 KV. In order to ensure uninterrupted power supply to the college, hostels and staff residences, the college has adequate backup provided by the generators. A 500KW solar rooftop plant has been fielded recently in December 2017.
- **Special Infrastructure :** Research and Innovation Centre (RIC), an Information Center and an Entrepreneur Cell have been setup to enhance research and employment opportunities.

### **ACADEMIC PROGRAMS**

The College had started its academic journey in 1993 with the intake of just 90 seats. With HIS blessings and the high quality of the graduates that the college has produced, the college now has an approved intake of 870 in UG courses, 168 in PG courses.



Under-Graduate (4 Year Courses)			Post Graduate (2 Year Courses)		
Bachelor of Technology		Intake	Master of Technology		Intake
a)	Agriculture Engineering	60	a)	CAD/CAM	18
b)	Civil Engineering	120	b)	Computer Science & Engineering	18
c)	Computer Science & Engineering	180	c)	E-Security	18
d)	Electrical Engineering	120	d)	Electronics & Communication Engineering	18
e)	Electronics & Communication Engineering	120	e)	Instrumentation and Control Engineering	18
f)	Information Technology	90	f)	Power Systems	18
g)	Mechanical Engineering	180	Masters in Business Administration		60

The undergraduate engineering students are taught a series of courses in the basic sciences to develop the understanding of scientific principles and methods, analytical ability and rigour. These courses provide a smooth transition to professional engineering courses. The college is committed to the quality of the projects, seminars and thesis being undertaken at the graduate and post-graduate level. Special focus is given on Personality Enhancement Program which is delivered through experts.

### **ACADEMIC RESULTS FOR THE SESSION 2016-17**

It is a matter of great pride for our college that a total of 20 students of Batch 2015 and 2016 have secured Merit Position in University examinations conducted by Maharaja Ranjit Singh Punjab Technical University in the session 2016-17. The students have not only brought laurels but also motivated the others to follow suit and have shown that this is indeed the progressive realization of worthwhile goals.

### **MERIT LIST BATCH - 2015**

<b>Sr.</b>	<b>Course</b>	<b>Branch</b>	<b>Name</b>	<b>Roll Number</b>	<b>Rank</b>
1	Bachelor of Technology	Civil Engg.	Gurbaksh Singh	15111285	2
2	Bachelor of Technology	ECE	Harmanpreet Singh	15111496	1
3	Bachelor of Technology	ME	Maninder Jeet Singh	15111676	1
4	Master of Technology	CAD/CAM	Harpreet Singh	15190212	1
5	Master of Technology	CAD/CAM	Gaganpreet Singh	15190209	2
6	Master of Technology	E-Security	Mandeep Kaur	15190233	1
7	Master of Technology	E-Security	Simrat Kaur	15190238	2
8	Master of Technology	ECE	Kawalpreet Kaur	15190249	2
9	Master of Technology	Power System	Anshu	15190255	1
10	Master of Technology	Power System	Davinder Singh	15190256	2

## **MERIT LIST BATCH - 2016**

<b>Sr. No.</b>	<b>Course</b>	<b>Branch</b>	<b>Name</b>	<b>Roll Number</b>	<b>Rank</b>
1	Bachelor of Technology	Computer . Sci. & Engg.	Neelam Rana	160280838	1
2	Bachelor of Technology	Computer Sci. & Engg.	Manpreet Kaur	160280829	2
3	Bachelor of Technology	Computer Sci. & Engg.	Navjot Kaur	160280836	2
4	Master of Technology	Computer Sci. & Engg.	Manpreet Kaur	160300095	2
5	Master of Technology	E-Security	Rupinder Kaur	160330010	1
6	Master of Technology	E-Security	Amandeep Kaur	160330002	2
7	Master of Technology	Electronics & Comm. Engg.	Gurpreet Kaur Kohli	160400023	1
8	Master of Technology	Electronics & Comm. Engg	Sarabpreet Kaur	160400027	1
9	Master of Technology	Power System	Kiran Bala	160370008	2
10	Master of Business Administration		Hardeep Kaur	160600748	2

Apart from these luminaries, the college is also proud of the students who have secured first divisions and distinctions in the university examinations. The number of such students, itself, speaks of the efforts being put in by the faculty and students together to achieve the greater academic success.

<b>Course</b>	<b>Branches</b>	<b>Distinctions</b>	<b>First Divisions</b>
<b>B.Tech. (Batch2013)</b>	CSE	36	120
	EE	14	44
	ECE	11	48
	IT	08	23
	CE	18	67
	ME	12	99
<b>M.Tech. (Batch2015)</b>	CSE	02	16
	E-Security	01	07
	ECE	04	14
	CAD/CAM	01	03
	Power System	-	03
<b>MBA (Batch2015)</b>	MBA	05	15

The following students are toppers of their respective branches in the college for the B.Tech. Batch 2013, M.Tech. Batch 2015 and MBA Batch 2015.

<b>B Tech Batch 2013</b>			
Computer Science & Engineering	1st 2nd	1302170 1302227	Kamalpreet Kaur Searat Chahal
Electrical Engineering	1st 2nd	1402418 1302301	Hardeep Kaur Kamalbir Kaur
Electronics & Communication Engineering	1st 2nd	1302361 1302423	Agamreet Kaur Sahleen
Information Technology	1st 2nd	1402520 1402523	Amrita Preet Kaur Harpreet Kaur
Mechanical Engineering	1st 2nd	1302253 1302544	Abhishek Parmar Harmanpreet Singh
Civil Engineering	1st 2nd	1301990 1302003	Akshay Parmar Barjinder Singh Johal
<b>M Tech Batch 2015</b>			
E-Security	1st	15190233	Mandeep Kaur
Computer Science & Engineering	1st 2nd	15190220 15190215	Jasleen Kaur Arshdeep Kaur
Electronics & Communication Engineering	1st 2nd	15190250 15190244	Kulvir Kaur Gagandeep Kaur Bassi
CAD/CAM	1st 2nd	15190212 15190210	Harpreet Singh Gurinderjit Singh
<b>MBA Batch 2015</b>			
MBA	1st 2nd	15260176 15260182	Nimrat Kaur Simer Singh

### **FACULTY & STAFF**

The college has highly competent faculty to impart high quality technical education. A total of 32 faculty members are Ph.D. holders and 46 are pursuing Ph.D. in the fields of sciences, engineering and management.

The college management supports the development and enhancement of skills of faculty and staff through the following schemes:

- Quality Improvement Programme (QIP)
- Study Leave
- Sponsorship for National and International Conferences
- Sponsorship for Short Term Courses
- In-house Faculty Training Programs
- Cash Rewards for publication in International and National Journals
- Grant-in-aid to individual Faculty Members to carry out R & D work

Faculty members who have been awarded PhD in the last one year are as follows:

<b>Name</b>	<b>PhD Topic</b>	<b>University</b>
Dr Harleen Kaur	Lattice Dynamics of Various Phases of Silicates at Different Depths of Earth's Mantle	SLIET, Longowal
Dr R.S.Uppal	New Deployment & Dynamic Shortest Path Routing in Wireless Sensor Networks	IKGPTU, Jalandhar
Dr Narinderpal Singh Deo	Performance Analysis of a Solar Air Heater Roughened with Multi-Gap V-Down Ribs Combined with Staggered Ribs	NIT, Jalandhar
Dr Siddhartha Saha	Study of Hand Arm Vibration Exposure of Indian Male Workers	PEC University of Technology, Chandigarh
Dr Harpreet Kaur Uppal	Receptors based on diphenylether and its aza analogues for ion recognition using Potentiometry	Thapar University, Patiala
Dr Supreet Singh	Performance Evaluation of Spectrum Sensing and RF Energy Harvesting for Cognitive Radios based on SDR.	Thapar University, Patiala
Dr T.S. Panag	Wireless sensor networks using hybrid optimization techniques	SLIET, Longowal
Dr Sukhmeet Kaur	An Empirical Study of Impulse Buying behaviour of Online and Offline Consumers in India. (A Study of Consumers in Punjab, Haryana, New Delhi and Chandigarh)	IKGPTU, Jalandhar

### **BOOKS/PATENTS BY FACULTY**

- Dr Lakhvir Singh, ME, has filed a Patent titled "A Magnetic-Abrasive Powder and a Method for Preparation of the Same". (presently at examination stage)
- Dr Niraj Bala, ME, in collaboration, has filed two Patents titled
  - "Erosion-Corrosion Resistant Cold Spray Coatings for Boilers in NI-20CrTiCr". (presently at examination stage)
  - "Protective Al<sub>2</sub>O<sub>3</sub>-50%Cr<sub>2</sub>O<sub>3</sub> Thermal Sprayed Coating on ASTM-SA210-Grade A-1 Boiler Steel".
- Dr Manpreet Kaur, ME, in collaboration, has filed four Patents titled
  - "Erosion-Corrosion Resistant Coating for Power Plant Boilers 75Cr3-C2-25NiCr88WC-12CoSi". (presently at examination stage)
  - "Holding Fixture for Cylindrical Substrate on Vertical Milling Machine" (awaiting examination)
  - "Energy Efficient Non Electric Lamp with Automatic Fuel Level Maintaining Mechanism".
  - "Ink Refilling Device for Whiteboard Marker Pen and Mechanism of use thereof".
- Dr RS Uppal, ECE, in collaboration, has filed a Patent titled "System for Optimal Deployment of Emergency Vehicles".
- Prof. Simarpreet Kaur, ECE, in collaboration, has filed a Patent titled "Escalator Overload Protection System".
- Prof. Jaspal Singh Khinda, ECE has filed three Patents titled

- “Elliptical Re-Configurable Wide Band Fractal Antenna Design with Enhanced Peak Gain and Gain Bandwidth”.
- “Wide Band Fractal Antenna Design with Improved Return Loss”.
- “Printed Monopole Fractal Antenna with Switchable Attenuation between Wi-MAX and WLAN Applications”.

### **PUBLICATIONS BY FACULTY**

The faculty members of the institute are rigourously working in their respective specialist fields and have cumulatively contributed almost 1400 research articles, out of which 178 research articles were published in International/ National Journals and 76 in the International/National conferences in 2017 itself.

### **EXPERT LECTURES DELIVERED BY FACULTY**

The college faculty has consistently been engaged by the institutions in the region to share the expertise in the respective fields by inviting them to deliver expert talks in International/National level programs.

- Dr Lakhvir Singh, ME, presented a Keynote address on “Micro Machining” during “3<sup>rd</sup> National Conference on Advances in Manufacturing Systems” (CAMS-2017) at Shaheed Bhagat Singh State Technical Campus, Ferozepur, December 16-17, 2017.
- Dr Niraj Bala, ME, delivered expert lectures titled
  - “Role of Cold Spray Coatings for Life Enhancement of Bio-Medical Implants” during “QIP Short Term Course on Optimization, Life Enhancement of Bio-Medical Implants by Additive Manufacturing and Protective Coatings” at Guru Nanak Dev Engineering College, Ludhiana, September 04-08, 2017.
  - “Development of Magnesium based Composites for Tribological Applications” during “National Seminar on Design and Manufacturing” at Institute of Engineering and Technology, Bhaddal, September 28-29, 2017.
  - “Fabrication of Magnesium based Composites for Wear Applications” during “International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering” (AFTMME-2017) at Shaheed Uddham Singh College of Engineering & Technology, Tangori, November 04, 2017.
- Dr Manpreet Kaur, ME, delivered an expert lecture titled “Surface Engineering of Tool Steels through Plasma Nitriding and Thermal Spray Coatings” during “International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering” (AFTMME-2017) at Shaheed Uddham Singh College of Engineering & Technology, Tangori, November 04, 2017.
- Prof. Simarpreet Kaur, ECE, delivered two expert talks titled “3D-FPGA” and “Implementation of 3D-FPGA” at NITTTR, Chandigarh, July 28, 2017.
- Dr Amarinder Singh, AS, delivered expert talks on
  - “Particle Swarm Optimization” in the “DST-Sponsored Workshop on Optimization Techniques & Its Applications” at Chandigarh University, Gharuan, December 23, 2016.
  - “Basics of LaTeX” and “Slides Preparation Using Beamer” in the “MRSPTU-Sponsored Faculty Development Program Effective Technical Writing Using LaTeX” at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, July 04, 2017 and July 06, 2017, respectively.
  - “Optimization and Heuristics” on April 30, 2017 and “Optimization in Real Life” on October 06, 2017, respectively in “DST-Sponsored INSPIRE Internship Camp” at Chandigarh University, Gharuan.

- “Optimization and Heuristics” in the “DST-Sponsored INSPIRE Internship Camp” at ISF College of Pharmacy, October 14, 2017 and at Shanti Devi Ahilya Mahila College, Dinanagar, December 15, 2017.
- Dr Amarinder Singh, AS, and Prof. Harpreet Singh Nagi, ME, delivered expert talks during the “Orientation Workshop for Punjab State School Science Teachers” at Guru Nanak Dev University, Amritsar, and Punjab State Council for Science & Technology, Chandigarh on May 18, 2017 and May 23, 2017, respectively.
- Prof. Gurleen Dhaliwal, CSE, delivered an expert talk on “NBA Accrediation-CO-PO Mapping” at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, July 21, 2017.
- Prof. Perminder Kaur, CSE, delivered expert talks on
  - “Jurisdiction in Cyberspace” in “National Workshop on Cyber Intelligence and Forensics” conducted by BBSBEC-ACM Student Chapter at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, February 23-24, 2017
  - “Cyber Security Threats and Countermeasures” in “National Workshop on Recent Trends in Free Lancing on Internet & Cyber Securities” conducted by BBSBEC-ACM Student Chapter at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, April 03, 2017.
  - “Impact of Social Media on Society” in “National Orientation Programme on The Changing Face of Indian Society, Culture and Linguistics due to Computerization” conducted by BBSBEC-ACM Student Chapter at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, August 09, 2017.
  - “Entrepreneurship as a Career: Earn while Learn” in “National Entrepreneurship Awareness Programme” organized by BBSBEC-ACM Student Chapter at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, September 27-29, 2017.
- Prof. Ravneet Kaur, delivered expert talks on
  - “Basic Digital Forensic Investigation Concepts” in “National Workshop on Cyber Intelligence and Forensics” organized by BBSBEC-ACM Student Chapter at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, February 23-24, 2017.
  - “Cyber Security Standards” in “National Workshop on Recent Trends in Free Lancing on Internet & Cyber Securities” organized under the aegis of BBSBEC-ACM Student Chapter at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, April 03, 2017.
  - “Impact of Social Media on Society” during the “National Orientation Programme on The Changing Face of Indian Society, Culture and Linguistics due to Computerization” conducted under the banner of BBSBEC-ACM Student Chapter at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, August 09, 2017.
  - “Entrepreneurship Education on Entrepreneurship skills and motivation” during “National Entrepreneurship Awareness Programme” organized under the aegis of BBSBEC-ACM Student Chapter at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, September 27-29, 2017.

#### **AWARDS/RECOGNITION EARNED BY FACULTY**

- Dr RS Uppal, ECE, has joined an Indo-German research forum on Neuroscience. Prof. Marco Lehmann-Waffenschmidt, TU Dresden, Germany, led group on the inter-



disciplinary research project “Plasticity Options for Financial Decision Making” has a sub-group led by Prof. Achal Srivastava of AIIMS, New Delhi and is being funded under the IPID4 program of German Academic Exchange Service (DAAD) and GA of TU Dresden.

- Dr Manpreet Kaur, ME, has been awarded a research project, in collaboration with IIT Ropar and GE, Bangalore, titled “Erosion, Corrosion and Deposition Resistant Coatings for Coal Fired Boilers”, under the IMPRINT research initiative of Government of India with a grant of Rs. 96 Lakh.
- Prof. Divya Gupta, EE, was awarded Women Era Award – 2017 by Rashtriya Jyoti Kala Manch, Patiala on March 08, 2017.

## **RESEARCH AND DEVELOPMENT**

BBSBEC has developed a healthy research-oriented learning environment. The state-of-the-art and technologically advanced research facility has been created in the form of exclusive RESEARCH AND INNOVATION CENTRE. The exposure to such facilities helps the budding engineers and research scholars to attain meaningful knowledge and hands-on experience of the research equipments, thus making them industry ready.

The e-subscription to more than 750 international engineering and management journals of leading publishers including IEEE, Emerald, Science Direct, Springer, ACSE and Elsevier are available freely throughout the campus. The access to these journal databases helps the faculty and research scholars to keep their knowledge base updated and unfold the newer areas of research prevailing in the global space. The efficiency and competence of BBSBEC faculty has fetched research grants of more than 10 million in the recent years from various government regulatory and funding agencies including the AICTE, DST, CSIR, PTU and others for undertaking diverse research projects. Key areas initiated for research include Manufacturing System Design, Surface Engineering, Non-Conventional Machining, Bio-Mathematics, Cloud Computing, Medical Electronics, Body Area Networks and Image Processing. The idea of undertaking such research is to think out of the box and to usher in innovations and find their applications in the industrial scenario.

### **Details of the ongoing R&D Projects**

<b>Project/Schemes</b>	<b>Funding Agency</b>	<b>Name of the Coordinator</b>	<b>Amount Sanctioned</b>
Development of Thermal Spray Coatings to Control Wear during High-Temp. Applications-Phase II	DST-SERB	Dr Manpreet Kaur	Rs. 31,84,500/-
Research Promotion Scheme (RPS)	AICTE	Dr Niraj Bala/ Prof. Amandeep Singh	Rs. 21,90,000/-
Fast Track Scheme for Young Scientists	DST	Dr Niraj Bala	Rs. 24,85,000/-
Heliostat based Solar Park (Heating and Generation Combined)	DST	Dr HS Ryait/ Dr RS Uppal/ Prof. Neeraj Sharma	RS. 9,19,844/-
SEED/TIDE Project – Study and Development of SEMG Based Exoskeleton Knee	DST-SERC	Dr HS Ryait	Rs. 32,00,000/-

- BBSBEC has been granted **Pradhan Mantri Kaushal Vikas Yojana (PMKVY)** from the Government of India through AICTE for the second year in running. The objective of the programme is to provide skill to the unskilled persons to prepare them for job or self-employment. The courses offered were Automotive Service Technician, Automotive Electrician, Automotive Lathe Operator and Auto Component Assembly Fitter.
- Two students of final year, Mr. Navdeep Bansal and Mr. Aman Joshi, under the supervision of Dr Niraj Bala and Prof. Birdevinder Singh, successfully fabricated Portable Solar Powered Thermoelectric Refrigerator-cum-Heater under the research grant obtained from The Institution of Engineers (India).

### **Conferences Organized**

- International Conference on Eco-Sensitive Developments in Science & Technology (ESDST-2017) was organized during January 20-21, 2017. The organizing committee received around 150 research papers out of which 98 were selected for presentation, segregated over six different tracks of specialist fields. The conference was sponsored by DST-SERB.

### **Faculty Development Programs/Workshops Organized**

- Department of CSE organized an MRSPTU-Sponsored Workshop on Effective Technical Writing using LaTeX during July 03-07, 2017.
- Department of CSE organized a Workshop on AUTODESK Software on August 02, 2017.
- Training and Placement Cell organized a special activity based faculty development programme organized on “Achieving excellence in teaching & learning synergic actions” in the college. The topics covered were building positive attitude and motivation, refining self, emotional intelligence test, dealing with negative emotions, effective communication, working in team, nurturing the inner leader, developing leadership qualities in students, problem solving, creative thinking, conflict management, making an action plan etc.
- A separate full day workshop on “Achieving excellence at workplace through relationship building” was conducted for Non-Teaching staff. The topics covered are values to make us valuable, dealing with procrastination, communication a tool for building relationship and resolving conflicts win-win strategy.

### **Programs to be Organized**

Prof. G.S. Hura, University of Maryland, USA and Prof. Burak Erkut, Technical University, Dersden, Germany shall be visiting college on February 25, 2018 and March 16, 2018 respectively to interact with the faculty members and share their research experiences.

### **TRAINING & PLACEMENT ACTIVITIES**

The Training and placement cell of BBSBEC is disseminating its professional services to the students by maintaining strong industrial and corporate relationship. The students are groomed in technical and soft skills during the pre-placement sessions conducted from time to time.

### **Placement Activities/Drives**

- T&P Department have organized various on and off campus placement drives for 2017 passed out and 2018 passing out students. The students took active part in the placements for various companies of repute including Nestle India Ltd, Anglo Eastern Ship Management Limited, ALPLA India Pvt Ltd, ASAHI India Glass Ltd, Spice Digital Limited, Frisklancer, Athenasoft, Josh Technology, Virtusa Corporation, Daffodil Softwares, JCBL, Suave Automotive Corporation, 75Way Technologies, Iron Networks, Sidel India Gurgaon, NIIT Technologies, Hewlett Packard Enterprise, Sopra

Steria, Cvent India, ADP Pune, Pratian Technolgy, uCertify, Cnet System, Hitachi, Spray Engineering Devises Ltd, S&G Group India, Acezd etc.

- More than 125 students have been successfully placed in reputed national and Multinational companies with a package ranging from 2 Lpa to 5.5 Lpa.
- The institute organized a Mega Job Fest on June 09, 2017 for the diploma students all across India. More than 1000 diploma students actively participated in the Fest from various parts of Punjab, Haryana, Himachal Pardesh, Madhya Pardesh, Uttar Pardesh, Jharkhand, Bihar, Uttarakhand and J&K and 152 students got placed. The fest started with various company presentations followed by written tests and HR interviews. More than 15 reputed companies had participated in this mega event, includes John Deere, Mahle Filters, Eicher Tractors, EESPL, Deltron, Iron Networks, ALPLA India, Asahi India Glass, Sona Group, Krishna Maruti, Suave Automotive Corporation, Talbros, Steel Bird, Ajitgarh Engineering, Zedstart, Supertech, Techlive etc.
- More than twenty students across all branches successfully cracked the GATE/CAT examinations and secured the entry into leading national organisations. Three students also cleared the Civil Services Exams and brought the laurels to the college.

### **University Entry Scheme for Defence Services (UES)**

- The passion for joining the defense services is duly taken care of by enrolling the pre-final year students under the University Entry Scheme (UES).
- The students actively participate in this scheme so that they can formally join defense services as their career.

### **Entrepreneurship Initiatives**

- T&P department strive to promote entrepreneurship and to energize the entrepreneurial ecosystem with knowledge sharing Initiatives by involving Thought Leaders, Business Icons, Successful Entrepreneurs, Professionals, Educationalists and Students.
- The workshops on Entrepreneurship have been conducted by the renowned entrepreneurs such as Ms. Manjula Sularia (Life skills coach & Knowledge entrepreneur), Ivneet Singh (Founder of Ivnox) Mr. Ranjodh Singh (GS Radiators) and Mr. Jatinderpal Singh (Guru Nanak Industry) shared their experiences and motivated the students to venture their ideas into the businesses.
- The BBSBEC arranged an entrepreneurship awareness program at BBSBEC. The motive of the program was to encourage the entrepreneurship among the science and B.Tech students. The Incubation and Entrepreneurship Centre at the Institute level has been planned in association with Department of Science and Technology, Gol and TIE, Chandigarh.

### **AMCAT National Eligibility Test**

- The comprehensive employability evaluation test AMCAT covering language, cognitive, behavior and skills have been conducted on January 31, 2017, April 11, 2017 and October 10, 2017 for all engineering students in association with M/s Aspiring Minds, India.

### **Training Activities**

- The Training & Placement Department has taken a range of initiatives for the professional grooming of budding engineers and transforming them to an industry fit engineers.
- The institute has developed strong Industry tie-ups, MoU's with quality institutions and corporate, association with personality enhancement companies and to nurture the entrepreneur capability among students.
- Skill enhancement for faculty and staff has been done through various Faculty/Staff

Development Programs and workshops from the leading resource persons of national repute.

### **Personality Enhancement Program (PEP)**

- The T&P department has been conducting the in campus personality enhancement program under which the students are trained holistically through unique activity based experiential training programs. The motive of these programs is to provide best of technological grooming and inculcate soft skills, aptitude training, logical reasoning and social responsibility aspects so that students can improve their employability skills.
- The Engineering and MBA students need to be trained for this program to help them face the upcoming challenges with full zeal and zest. The confidence and the knowledge level of the students is checked and enhanced through Group Discussions and Personal Mock Interviews sessions under this PEP program.
- Special auditorium sessions have been regularly organized under this PEP program. Best of the leadership and motivational speakers from the speaking industry including Mr. Sandeep Wadhwa (National Motivational repute), Ms Himani Aggarwal (Corporate Trainer), Mr Arvind Mishra (A Guinness Book of World Record holder for delivering the longest lecture for 139 hours), Mr Akashdeep Kumar, Col Urinder Singh (famous story teller and glass walker), Ms Harman Mangat, Ms Isha Singh, Mr Narender Agarwal, Mr Ketan Bhagat have been invited for conducting workshops/seminars so as to further strengthen the employability of the budding engineers.

### **Industry Academia Interaction**

- T&P department observed an Industry Academia Interaction to bring Industry and Academia closer in terms of having productive discussion about the opportunities where they can work for the mutual benefits and to discuss about the current need of industry in terms of manpower and how academia can help them to bring desired skill set.
- The college has arranged industrial tours to Kandhari Beverages, John Deere, NFL Nangal, GNA Duraparts Ltd Hoshiarpur for the students to experience the work culture and latest technical trends happening currently in leading industries.
- Various technical workshops and seminars conducted for students by renowned experts from leading companies e.g. Mr. SPS Oberoi (Sr. HR Anglo Eastern Ship Management Hongkong), Mr. Surendra Babu (Vice President ALPLA), Mr. Rishi Pratap Singh (Manager Delivery Infosys), Mr. Sandeep Sharma, Dr. Rajesh Mehra (HOD ECE, NITTTR), Mr. Jatinderpal Singh (Guru Nanak Industries Ltd), Mr. Japjit Singh Arora (ACC Cements Ltd), Mr. Vikram Grover (NYX Design Pvt Ltd, USA), Ms Manpreet Kaur, Ms Trupti (TCS ION).

### **PROFESSIONAL SOCIETIES**

In an endeavour to provide the practical knowledge and the latest research being carried out in the different fields of engineering, the college has setup various professional societies in the college. Faculty members and students are encouraged to become members and participate in the activities of professional bodies that have established various chapters in the college, such as:

- Computer Society of India (CSI)
- The Institution of Engineers (India) (IE(I))
- Association for Computing Machinery (ACM)
- Indian Society for Technical Education (ISTE)
- The Institution of Electronics and Telecommunication Engineers (IETE)
- The Institute of Electrical and Electronics Engineers (IEEE)

**ACM Student Chapter** in collaboration with the Department of CSE organized the following programs:

- Workshop on Cyber Intelligence and Forensics during February 23-24, 2017.
- National Level Orientation Program on Recent Trends in Freelancing on Internet and Cyber Securities on March 03, 2017.
- Expert talk on The Changing Face of Indian Society, Culture and Linguistics due to Computerization on August 09, 2017
- National Workshop on Entrepreneurship Awareness Program (NEAP-2017) during September 27-29, 2017 that was jointly conducted with Regional Centre for Entrepreneurship Development (RCED) and sponsored by Department of Science & Technology (DST). More than 100 students from various institutes participated in the program in which two BBSBEC students, Mr. Sanjeet Singh and Mr. Amardeep Singh, were honoured with Dr Gurpal Singh Memorial Educational Award.

**IE (I) Student Chapter** has organized the following programs:

- Quiz Competition on January 08, 2017.
- Technical Antakshri on February 09, 2017
- Android Workshop during March 27-29, 2017
- Workshop on Big Data and Hadoop during March 27-29, 2017.
- Brainstorming Quiz and Techakshri on September 13, 2017.
- World Energy Conservation Day on December 14, 2017.
- All India Seminar on Recent Innovations in Wireless Communications & Networking during February 23-24, 2017.

**CSI Student Chapter** organized an interactive session with Mr Subhash Chander Jain, Chairperson of CSI Chandigarh Chapter and Dr Sushil Kaura, Chief Scientist, CSIR-CSIO on October 24, 2017.

**IEEE Student Chapter** organized a programming event Code Phisher 2K17 on October 26, 2017.

### **STUDENTS' ACHIEVEMENTS IN TECHNICAL EVENTS AT NATIONAL AND INTERNATIONAL LEVEL**

- Amandeep Singh, EE, was selected as a Trainee at IIT Ropar for an EEG Based Project during June- December 2017.
- Inderpreet Kaur, EE, was awarded Kala Devi Award by The Institution of Engineers on October 31, 2017.
- Mankaran Singh, EE, was awarded ISTE Section Best Student Award 2017, at the Indian Society for Technical Education Students Zonal Convention held at Rayat Institute of Engineering and Information Technology, Railmajra, on November 02, 2017.
- Aermodelling Team, comprising of Harmandeep Singh, Gagandeep Singh and Harpreet Singh, won the Third Prize at the Boeing IIT National Aero Modelling Competition held at IIT Delhi on April 22, 2017.

### **SPORTS ACTIVITIES**

The college boasts of excellent facilities for indoor games and sports. Two Lawn Tennis Courts, two Basketball Courts, two Cricket Practice Pitches and grounds for track & field events and for almost all the games such as Badminton, Hockey, Football, Handball, Kabaddi and Kho-Kho are available.

The department has maintained its record to hold inter-branch and inter-batch competitions of various sports. Some of the major achievements in the last session by the college in

MRSPTU Inter College Tournaments are mentioned below:

**MRS-PTU Inter College Tournaments:-**

Sr. No.	Name of Student/Team	Title of the Event	Venue	Dates	Achievements
1.	Cricket (M) Zonal IC	MRSPTU IC Tournament	BBSBEC, FGS	13-19 Feb 2017	1st
2.	Cricket (M) Inter-Zonal Tournament	„	AIET,Faridkot	22-23 Feb 2017	2nd
3.	Mehakpreet Singh, ME	Discuss Throw	MRSPTU Bathinda	30-31 Mar 2017	2nd
4.	Vikram Saini,CSE	High jump	„	„	3rd
5.	Vikram Saini,CSE	Long Jump	„	„	2nd
6.	Rupinder Singh Saini,EE	Hammer Throw	„	„	3rd
7.	Jaismeet Kaur,CSE	Shot Put	„	„	3rd
8.	Anamveer Kaur,CSE	4x400 MTR Relay	„	„	3rd
9.	Manpreet Kaur,CSE	„	„	„	„
10.	Karanvir Kaur,CSE	„	„	„	„
11.	Simaranjeet Kaur,CSE	„	„	„	„
12.	Badminton (M)	MRSPTU IC Tournament	MRSPTU Bathinda	9-10 Oct 2017	1st
13.	Badminton (W)	„	„	9-10 Oct 2017	1st
14.	Lawn Tennis (M)	„	MIMIT Malout	7-8 Sep 2017	3rd
15.	Hockey (M)	„	BBSBEC, FGS	12-13 Oct 2017	3rd

**Inter University Selections:-**

Sr. No.	Name of Student/Team	Title of the Event
1.	Karan Yadav ,ME	Badminton
2.	Preetkanwar Singh Kalra,CSE	„
3.	Vishal,CSE	„
4.	Shweta Singh Bora, ECE	„
5.	Navneet Kaur,CSE	„
6.	Maninderpal Singh,EE	Handball
7.	Sukhsimran Singh Virk,ECE	Basketball
8.	Lovepreet Singh,ME	Hockey
9.	Amninder Singh,CE	„
10.	Ramanjeet Singh,CE	„
11.	Gurwinder Singh,CSE	„
12.	Amanpreet Singh,CSE	„
13.	Gurpreet Singh,ECE	CHESS
14.	Bawandeep Kaur,CSE	CHESS
15.	Tarkeshwar Singh,CE	Table-Tennis
16.	Hitesh Pahuja,ME	Basketball
17.	Sahib Singh,CSE	Basketball
18.	Harshit Sabharwal,CE	Cricket
19.	Sarbjeet Singh,CE	Cricket
20.	Kuljeet Singh,CE	Cricket



**Khalsai Games:-**

Sr. No.	Name of Student/Team	Title of the Event	Venue	Dates	Achievements
1.	Table -Tennis (M)	Khalsai games	Mata Gujri College, FGS	14 -16 Oct 2017	2nd
2.	Gatka(M)	"	"	"	3rd
3.	Handball (M)	"	"	"	3rd
4.	Basketball (W)	"	"	"	3rd
5.	Badminton (W)	"	"	"	3rd
6.	Rupinder Singh Saini CSE	Hammer Throw	"	"	2nd
7.	Amrinderpal Singh CE	Shot put	"	"	2nd

**STUDENT'S EXTRA-CURRICULAR ACTIVITIES**

The students of Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib actively participate in the co-curricular and extra-curricular activities and have achieved excellency in the activities at both State and National level and is showcased by the following events:

S.No	Event	Dates
1	Participated in North Zone Inter University Youth Festival at Chhatrapati Shahu Ji Maharaj University, Kanpur. Seven students represented MRSPTU in Mime, Mimicry, Skit and On-the-spot Photography.	January 02-06, 2017
2	Participated in Sikh Naujawan Chetna Samagam at Sri Anandpur Sahib.	January 10, 2017
3	Human Chain Activity (on GT Road 120 km long) Participation by 500 students + 100 staff	January 31, 2017
4	Sports Season cum Annual Athletic Meet	March 02-04, 2017
5	Celebrated Sikh Environment Day	March 14, 2017
6	Participated in 3rd Khalsai Sabhyacharak Utsav 2017 at Khalsa College, Gardhiwala. Won First prize in Dumala Tying Competition	March 21-22, 2017
7	International Yoga Day	June 21, 2017
8	Freshers' Party	September 08, 2017
9	Engineers Day Celebration	September 15, 2017
10	Most Aware Singh & Kaur	September 27, 2017
11	Seminar on Baba Banda Singh Bahadur	October 13, 2017
12	Fateh Marathon	October 14, 2017
13	Participated in Khalsai Khed Utsav at Mata Gujri College, Fatehgarh Sahib	October 14-16, 2017
14	Performed Cultural Programme during Alumni Meet 2017	November 11, 2017
15	Participated in MRSPTU Youth Festival 2017 and won: (a) 1st Position in Skit and Debate (b) 2nd Position in Mime, Quiz, Essay Writing, Cartoon Making, Poster making, On the Spot Painting and Western Vocal Solo	November 14-15, 2017
16	Participated in North Zone Inter University Youth Festival at Maharishi Markandeshwar University, Mullana. Seven students represented MRSPTU in Mime, Skit and debate and won: (a) 1st Prize in Mime and got selected for National Youth Festival to be hosted by Ranchi University, Ranchi from February 16-20, 2018.	January 12-16, 2018

### **BBSBEC ACTIVITIES TOWARDS CSR**

- Two Blood Donation Camps were organized in the campus on April 03, 2017, dedicated to Panth Rattan Gurcharan Singh Tohra, the Founder President of Baba Banda Singh Bahadur Education Trust, in collaboration with Department of Transfusion Medicine, PGIMER Chandigarh, and, on October 12, 2017, in which the students and staff participated with vivacity.
- A tree plantation drive was organized on August 18, 2017 at the premises of senior secondary school of village Ghumandgarh. The college donated 350 trees of various varieties to the school. The computer/electronic/electrical related models were demonstrated to the students which plays a crucial role to enhance the knowledge of students.

### **GURU GOBIND SINGH STUDY CIRCLE**

Guru Gobind Singh Study Circle has been constituted in the college with an aim to inculcate moral, spiritual and universal values in the budding engineers. The students participated in different events organized by the Study Circle and SGPC.

- Two students, Harminder Singh and Gursimran Singh, won 2<sup>nd</sup> Prize in the Dumala Tying competition held during "Sikh Yuva Chetna March" organized by SGPC on January 10, 2017 at Anandpur Sahib.
- Sehaj Path is organized twice by the college staff and students. In the last year, the Bhog ceremonies were conducted on March 08, 2017 and October 4, 2017. Bhai Rai Singh Ji and Bhai Amandeep Singh Ji from Sri Harmandir Sahib, Amritsar Sahib recited Gurbani Kirtan and Bhai Harpal Singh Ji motivated the students with Vichar.
- GGSSC-BBSBEC Chapter organized "Most Aware Singh and Kaur Competition" for the newly admitted students on September 27, 2017. S. Jatinder Pal Singh, Secretary General, GGSSC, was the Chief Guest of the event.
- Continuing the college tradition, the Fateh Marathon, dedicated to the Birth Anniversary of Baba Banda Singh Bahadur, was organized on October 14, 2017 in which more than 800 participants across all age groups participated. The students, staff, families of staff members, students of various schools and colleges of the adjoining area and the local residents participated in the event with great zeal. The aim of the program is to rejuvenate the youth and to kindle their thoughts by realizing the sacrifices of Baba Banda Singh Bahadur. Chief Guest Lt Gen H.R.S. Mann distributed the prizes to the winners of the day. Ms Kanwalpreet Brar, Deputy Commissioner and Ms Alka Meena, SSP Fatehgarh Sahib graced the occasion.
- Gatka Team won Bronze Medal in Khalsai Games held during October 14-15, 2017 at Mata Gujri College, Fatehgarh Sahib.
- The students and staff get together once a week and recite Gurbani and meditate (Simran).

### **NSS ACTIVITIES**

NSS plays a vital role in the development of the quiescent aspects of the students. Some of the activities carried out by the NSS Unit of the college in the last session are:

- Visit to CSIO Chandigarh to celebrate National Science Day on February 28, 2017.
- Educational-cum-Industrial Visit to Bhakra Dam, Kotla Power House and Gurdwara Tibbi Sahib on March 15, 2017.
- Observed Swachh Bharat Pakhwada during August 01, 2017 to August 15, 2017.

- Organized a Declamation contest dedicated to the 75<sup>th</sup> anniversary of Quit India Movement on August 30, 2017.
- Organized an Essay Writing and Slogan Writing competition, in collaboration with Red Ribbon Club, on November 16, 2017.
- Observed National Voter Day on January 25, 2018, in collaboration with Red Ribbon Club, in which students presented view on democratic setup of the country and also took oath of casting vote in a free and fair manner.
- Observed Anti Drug Awareness Day and conducted activities on February 05-06, 2018 in which students took part in Group Discussions, presented their views on the subject and pledged to start a drug abuse awareness campaign.

### **ALUMNICELL**

Dr Manpreet Kaur, ME, heads the Alumni Cell that is in regular engagement with the Alumni of the college comprising of 10000 professionals over the previous 20 batches. Some of the activities carried out by the Alumni Cell in the last session are:

- The annual Alumni Meet was organized on November 11, 2017. It was a proud moment for the college as a large number of alumni participated, interacted and gave career guidance to the incumbent students.
- The alumni eagerly associates themselves with the college and deliver expert lectures for the benefit of the students. Er Vipul Mehta, Batch 1998, and Er Mubarak Sandhu, Batch 2008, delivered technical talks and personality development talks, respectively, to the college students.

### **SIGNIFICANT ACTIVITIES @ BBSBEC**

**Punjab State Level Children's Science Congress-2017:** Department of Applied Sciences organized the “25<sup>th</sup> Punjab State Level Children's Science Congress (CSC-2017)” sponsored by the Punjab State Council for Science & Technology (PSCST), Chandigarh during November 28-30, 2017. More than 500 students accompanied by 50 teachers from all the districts of Punjab State participated in the silver jubilee state event and presented their project work that was evaluated by experts of the respective fields. Eight projects of Junior and Senior level each were selected to be presented at the 25<sup>th</sup> National Level Children's Science Congress held at Science City and SAL College of Engineering & Technology, Ahmedabad, Gujarat.

**IIT Bombay Remote Centre:** BBSBEC has been selected as IIT Bombay Remote Centre under the Train 10000 Teachers Programme of NME-ICT of IIT Bombay. The College faculty and students will be able to utilise various courses and workshops offered by IIT Bombay.

**IIT Bombay FOSS Centre:** BBSBEC is associated with IIT Bombay as Free Open-Source Software (FOSS) Project Centre, wherein an Open Source Lab has been setup in the Department of CSE with a view to transform the entire campus into an Open Source hub in future. The video lectures of the experts on the Open Source Softwares, such as SciLab, Python, QCAD, LaTeX, etc, from IIT Bombay are being used to train the students and faculty in the FOSS Centre.

**IIT Bombay Spoken Tutorials Lab:** BBSBEC has continued with the practice of training the students with the free softwares and the IIT Bombay Spoken Tutorials Online tests are

conducted in the Department of CSE, the certification of which shall be an added advantage for the students.

**NITTTR Remote Centre:** Department of CSE/IT has setup a remote centre of NITTTR, Chandigarh at the CSE Conference Hall and organized the undermentioned Faculty Development Programs through ICT in the last session:

- Cloud Computing during December 05-09, 2016.
- PHP and MySQL during January 23-27, 2017.
- Cyber Crime & Forensic Tools during February 06-10, 2017.
- Wireless Networks during May 22-26, 2017.

### **Industrial Visits**

- The students of Mechanical Engineering visited Diesel Loco Modernisation Works, Patiala during March 07-09, 2017.
- The students of Computer Science & Engineering visited Diesel Loco Modernisation Works, Patiala during August 23, 2017.
- The students of Computer Science & Engineering visited National Institute of Pharmaceutical Education & Research, Mohali on September 06, 2017.
- The students of Computer Science & Engineering visited Kandhari Beverages Private Limited, Nabipur on September 27, 2017.
- The students of Mechanical Engineering visited GNA, Mehtiana on October 27, 2017.

### **Programs Organized**

- Department of ME organized a workshop on Product Design Using FEM during February 18-19, 2017.
- A public outreach and awareness programme was organized under the aegis of Department of Telecommunications (DoT) on Electromagnetic Field (EMF) Emissions and Telecom Towers on February 23, 2017.
- Department of ECE organized a Workshop on Wireless Sensor Nodes in IoTs on March 09, 2017.
- Department of CSE and Hanumayamma Innovations And Technologies organized a Startup in Hackathon Talent Hunt On March 30-31, 2017.
- Department of Management Studies organized a Workshop on Use of SPSS for Analytical Framework on April 04, 2017.
- An Expert Talk on the topic Corporate Ethics Mandate was organized on July 11, 2017.
- Department of Management Studies organized a Workshop on Goods and Service Tax on July 28, 2017.
- Department of CSE organized an Expert Talk on the topic Project Planning and Management using ORACLE PRIMAVERA Software on August 2, 2017.
- NITTTR Chandigarh Sponsored one day Workshop for students on How to Prepare for Interviews on August 11, 2017.
- Department of ECE conducted a Paper Presentation Competition PRAGATI on August 19, 2017.
- Department of Management Studies organized a Workshop on Photo Essays and Stories on August 24, 2017.
- Department of EE organized a Workshop on Solid Works on September 15, 2017.
- Department of ECE organized a Seminar on Role of Engineers on September 15, 2017.

- Department of CSE organized an Expert Talk on the topic Role of modern technology in Industry on October 9, 2017.
- Department of ECE organized a Seminar on Wireless and Optical Technologies on October 11, 2017.
- Department of EE organized expert lecture on Entrepreneurship to start up small scale industry on October 25, 2017.
- Department of EE organized expert lectures on PLC, HMI, SCADA, Motors and Drives on October 26, 2017.
- An exhibition of the projects made by final year students of Mechanical Engineering Department was organized on November 17, 2017. Students of final year demonstrated and explained their projects in the exhibition. A total of 23 projects fabricated by final year mechanical engineering students were show cased. Mechanical engineering students of I, II and III year were benefited from this exhibition. Senior faculty members of the department gave feedback and their valuable suggestions to the participating students.
- Department of ECE organized a Fun with Technology competition on January 24, 2018.
- Department of ECE organized a Group Discussion on February 05, 2018.

Ladies and Gentlemen, I am thankful to all of you for your patient hearing, especially to the dignitaries of the day. It was really my proud privilege to present the college report in the presence of such an enlightened gathering of young graduates and technical educators from all over the region.

Thank You.

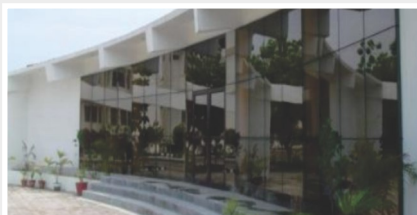
**Gur Fateh and**

**Jai Hind**





# About College



Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib was established in 1993 by Baba Banda Singh Bahadur Education Trust formed under the patronage of the Shiromani Gurdwara Prabandhak Committee with the approval of the Govt. of Punjab. The college is approved by the AICTE, New Delhi, Ministry of HRD, Govt. of India and is affiliated to the IKGPTU, Jalandhar. The college has earned



accreditation from NBA (AICTE), IE (India), International Accreditation Organization for various programs. Presently, the college is offering seven B.Tech. Programs, six M.Tech. Programs and an MBA Program.

The college is situated in an environment conducive to academics. It is housed in a sprawling pollution-free campus of 90 acres and is located in the sacred surroundings of historic Gurdwara of Fatehgarh Sahib. The college is named after Baba Banda Singh Bahadur, a great Saint and Warrior, who conquered the Sirhind Fort and laid to rest the tyranny of the Mughal Empire.

BBSBEC is one of the leading institutions in Engineering & Technology and is most sought-after for admission by the students. BBSBEC has also made a significant presence in the Techno-Educational field at the international level.

More than 75 crore have been spent on the buildings and equipment alone for this gigantic project. The college is in close proximity to Patiala as well as Chandigarh. The college has state-of-the-art laboratories in all these departments.

**BABA BANDA SINGH BAHADUR ENGG. COLLEGE FATEHGARH SAHIB**

Telephone Nos.: 01763-503067, 503056, 503139 (Fax)

Website: [www.bbsbec.edu.in](http://www.bbsbec.edu.in) | E-mail: [principal@bbsbec.ac.in](mailto:principal@bbsbec.ac.in)