

Progress Report

2014-15



SHAHEED BHAGAT SINGH STATE TECHNICAL CAMPUS

Moga Road (NH-95), Ferozepur-152004 (PB)

(Established By Punjab Government in 1995)

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FOREWARD

Presenting Annual Progress Report 2015 of Shaheed Bhagat Singh State Technical Campus, Ferozepur is a matter of great pleasure for us. The report summarizes achievements and progress of the institute made over the past a few years.

Institute has procured TCSiON (an ERP solution) from Tata Consultancy Services (TCS) to facilitate automation requirement of the time. Most significant ERP modules such as Accounts Section, Procurement and Inventory, Establishment Section and Fee Collection have been implemented successfully. TCSiON has not only increased the efficiency of the system but also improved the quality of services being rendered to students and staff.

The institute has grown by leaps and bounds during last five years. Its various departments are running many UG and PG courses covering a broad range of engineering domain. The institute faculty is good, however, undergo various training programmes to enhance their domain knowledge from time to time.

Considering the depressing employment opportunities and economic recession, a special thrust is given to bring more number of companies for on-campus interviews resulting satisfactory placement. Activities to strengthen Industry Institute Interaction, Industrial Training, and Industrial Visits, etc. are kept regular that boost the confidence level of our students, and enhance their skills.

We would like to extend our sincere thanks to our faculty, staff, students, and alumni for their continued support and remarkable contributions. Looking ahead, we will continue to work towards realizing our vision to be a leader in engineering education, and advancing research and innovation to support socio-economic development of the region.



Sh. Dinesh Lakra
Chairman BOG



Dr T S Sidhu
Director

INTRODUCTION



The Institute was established by the Government of Punjab in 1995 with the name Shaheed Bhagat Singh College of Engineering & Technology as a tribute to the great martyr Shaheed Bhagat Singh. In the academic year 2011-12, it was upgraded to the status of a technical campus and rechristened as Shaheed Bhagat Singh State Technical Campus, Ferozepur.

The institute is fully promoted by the Punjab Government and is registered as a Society under the Societies Registration Act 1860. Its affairs are administered by a Board of Governors. The Technical Campus, with its lush green state-of-the-art campus spread over 100 acres is situated on Ferozepur-Moga Road, about four Kilometers away from the Ferozepur city

ADMISSIONS

B.Tech. Programmes

Students are admitted in this institute on the basis of JEE merits through centralized counseling conducted by Punjab Technical University, Jalandhar as per the policy of Government of Punjab. Reserved categories seats are filled according to the rules of Punjab Govt./PTU.

Among the total seats, 85% are reserved for Punjab domicile and 15% for outside

Punjab candidates. Admissions are made strictly on the basis of merit of JEE.

B.Tech. Lateral Entry (LEET)

Under Lateral Entry scheme additional 20% students of the sanctioned intake are admitted directly into 2nd year of B.Tech. programmes in accordance with the guidelines issued by the Govt. of Punjab. In addition to this, the vacant seats of 1st year of B.Tech. programmes, if any, shall also be filled under this category.

An Overview of Engineering Departments and Courses

Department Name	No. of Seats		
	B.Tech.	M.Tech.	Ph. D.
Department of Computer Science & Engineering (CSE)	120	18	As per availability of seats with supervisors
Department of Chemical Engineering (CHE)	30	-	
Department of Civil Engineering (CE)	120	-	
Department of Electronics & Comm. Engineering (ECE)	90	18	
Department of Electrical Engineering (EE)	60	18 (AF)	
Department of Mechanical Engineering (ME)	180	18	
Department of Applied Sciences and Humanities (DASH)	Teaching of common courses to all branches		



New Building Block-D that accommodates Administrative Sections and Polytechnic Wing

Post Graduate Programmes

Admissions to PG courses in various engineering disciplines are made on the basis of GATE score. In case sufficient GATE qualified candidates are not available, then admissions are made on the basis of merit of B.Tech. score.

Students in MBA and MCA courses are admitted on the basis of merit in graduation.



Diploma Programmes

Admission in 3-year Diploma courses is made on the basis of Joint Entrance Test conducted by Punjab Govt.

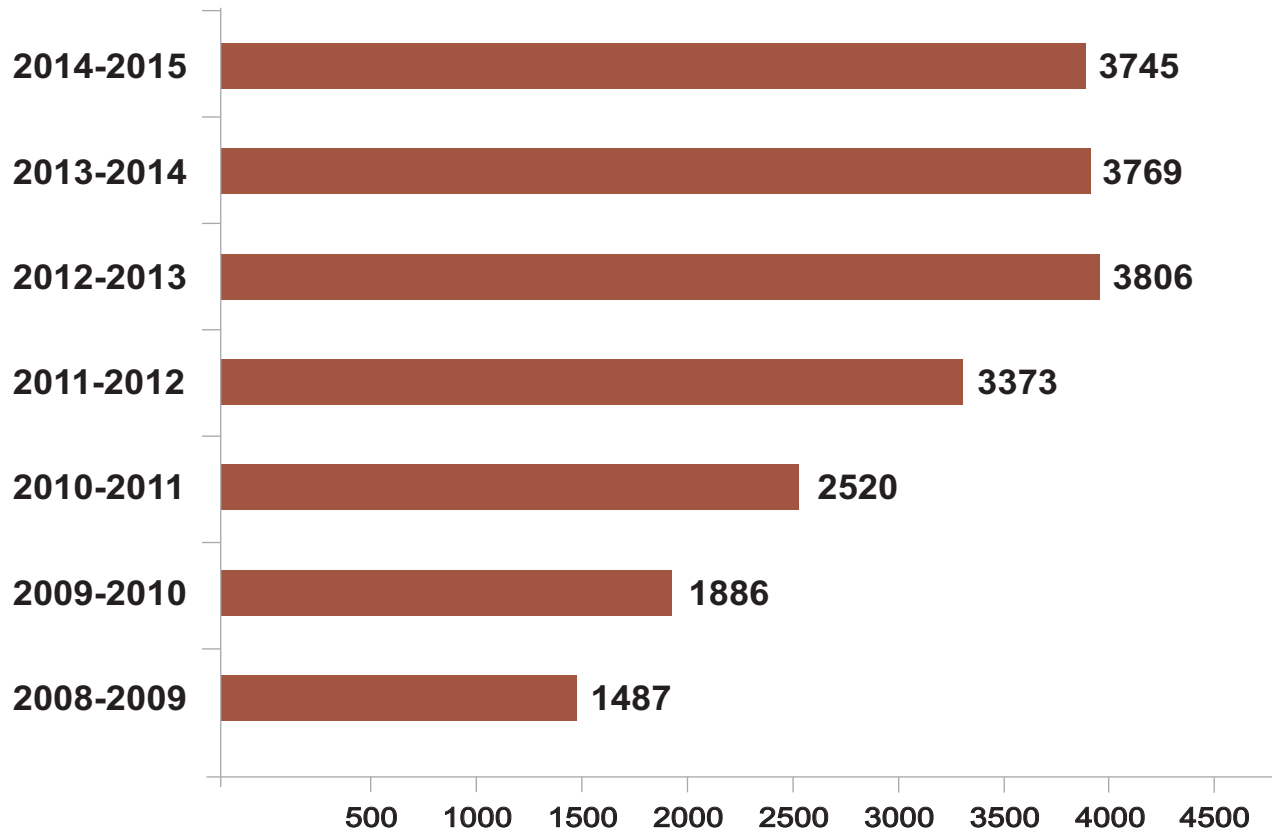
School

The institute is also running a school wing with an annual intake of 50 students. The admission in the school wing is made on the basis of an entrance examination conducted by the institute.

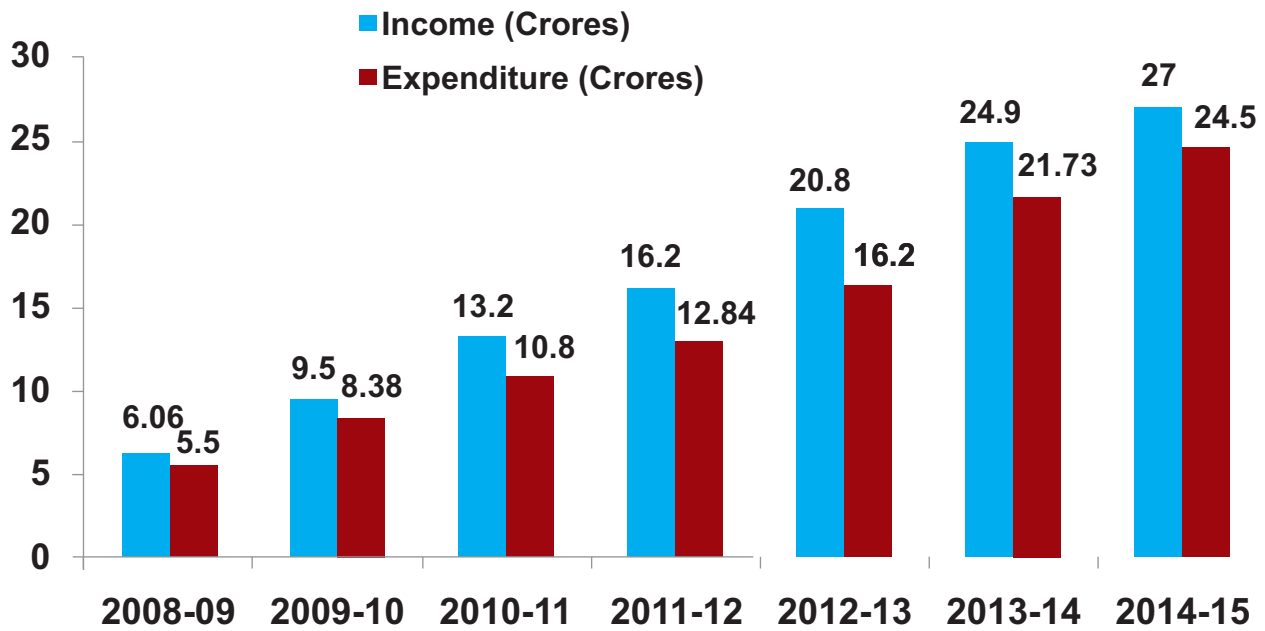


An Overview of Polytechnic Departments and Courses

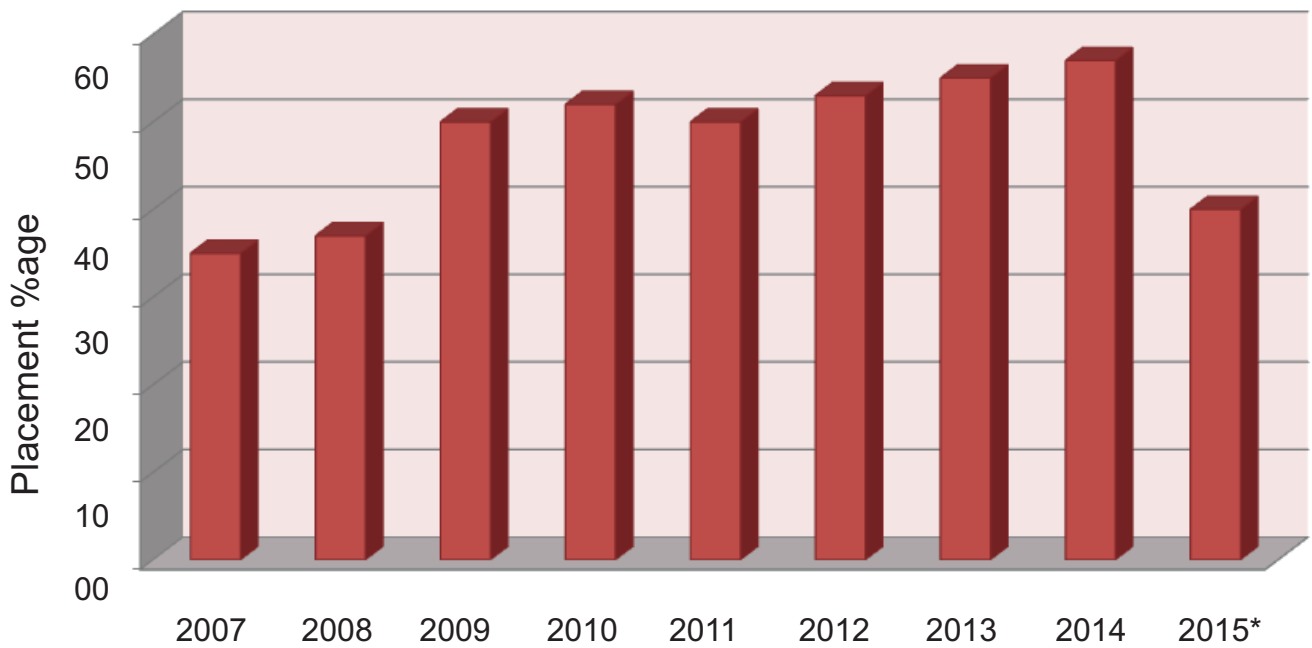
Department Name	No. of Seats
Department of Computer Science & Engineering (CSE)	60
Department of Electronics and Communication Engineering (ECE)	60
Department of Electrical Engineering (EE)	60
Department of Mechanical Engineering (ME)	120
Department of Applied Sciences and Humanities (DASH)	Teaching of common courses to all branches



Year wise Admissions since 2008



Year wise Financial Growth of the Institute



Year wise Campus Placements



Main Recruiters

Accreditation & Academic Autonomy

- a) It is a matter of great pleasure to inform that five B.Tech Programmes of the institute have been accredited by National Board of Accreditation (NBA) in one go.

A team consisting of 11 members had visited the institute for three days during 29-31 August 2014 and examined various aspects as per international accreditation standards regarding quality of faculty, laboratories, academics, infrastructure and other facilities for evaluating B.Tech programmes for accreditation. All faculty and staff members were working day and night from last 6 months for preparing the institute and departments for getting accreditations.



- b) The Institute had also applied for NAAC Accreditation. Institute has prepared itself for visit of NAAC team, which is scheduled on 20-22 April 2015.
- c) The institute has also applied to UGC through PTU Jalandhar for getting academic autonomy. Expert committee is likely to visit in the month of May 2015.
- d) With the active contributions of its faculty, staff and students the Institute is making all round efforts to become deemed University.

Conference and Technical Events

- a) The Institute has organized first International Conference on “Communication Computing and Systems, ICCCS-2014” during 8th and 9th August 2014. More than 100 research papers were received, out of which 58 were selected after the review process for presentation and publishing in proceedings.

The proceedings of the conference, published with ISBN number, were released by the eminent educationalist of the region Prof. (Dr.) T.S. Kamal (Retired professor, SLIET Longowal). Keynote speaker Dr. Shakti Kumar Director Yamuna Group of Institutes, Haryana and 10 more eminent professors from the fields of Electronics & Communications Engineering and Computer Science & Engineering such as Dr.Sandeep Arya, Dr. Surinder Singh, Dr.Vijay Banga, Dr.Arun Khosla, Dr. Amarpal Singh, Principal, Khalsa College Amritsar have shared their valuable knowledge and also have Chaired different Session of the conference.

The conference was jointly organized by Electronic Engineering, Computer Science and Electrical Engineering departments of the



campus based on Communication, Computing and System

- b) Two-days' National Level Conference on 'Advances in Manufacturing Systems' "CAMS-2014" was organized during 5th and 6th September 2014. Candidates from reputed institutes of 18 states have contributed research papers in the conference. In all 63 papers were finally included in the proceedings, out of which 40 were presented in 4 sessions held in the conference. The proceedings of the conference, published with ISBN number, were released by the eminent educationist Prof. (Dr.) Alakesh Manna (Head, Mechanical Engineering Department, PEC University of Technology, Chandigarh).



"CAMS-2014 was planned to provide an interdisciplinary platform to professionals, academicians and research scholars to deliberate on all related issues.

- c) Another Two-days International Conference on Frontiers in Materials Research & Applications' was organized on 30-31 October 2014. Ravi Gupta, Chairman, Dev Raj Group of Industries and Institutions and Member BoG was chief guest of the function.

Prof. M.E. Brito from Clean Energy Research Centre University of Yamanashi, Japan delivered keynote address. Prof. O.P.Pandey, Thapar University Patiala, Prof. Dilip Sharma, NIT Jaipur, Dr. Sushil Kumar, Dr. Dharavir and Dr. Garim Jain subject experts gave technical knowledge on the concerned subjects.

This was the third conference organized in the campus in year 2014 with a motive to encourage the faculty and post-graduate students for research in the technical field.

In this conference, 58 research papers have been presented by the research scholars from various technical institutions which have been published after thorough review and gradation.

- d) Three days Student Personality Development Camp was organised during 25-27 September 2014. In all, 250 students participated in this personality development camp. The key note speakers at the camp were Prof. N.P.Singh, Prof. Gurpreet Singh, Dr. A.P.Singh, Inderpal Singh, Inderpreet Singh, Dr.Harjinder Singh and Jatinderpal Singh who delivered their speech on different topics such as Best Way of Life, Secret of Success, Stress Management, Science & Religion, Happiness, Man Jheetey Jag Jeet and Bande Khoj Dil Har Roz.



The inspirational movies like “Anndata” and “Empty Inside” were also shown in the camp

- e) The three days Techno Opus-2014 Seminar was organized by the Student Chapter of Indian Society for Technical Education during 4-6 March 2014. Sh. Dinesh Lakra Chairman BOG had inaugurated the Techno-Opus 2014 and in his inaugural speech hon'ble Chairman said that such programmes play a vital role in developing the skill of the engineers. Further sharing the special knowledge relating to Indian Society for Technical Education (ISTE), he said, the society, established in 1968, in association with the technical institution, is also playing an important role for producing the professional engineers and technicians.



During this three days programme, the competition on technical activities and cultural events were organized. In the Project Competition, 7 students were given awards ranging from Rs. 2000 to 10,000.

- f) The 3rd Convocation and 3rd Alumni meet of the institute was held on 18.02.2014.



Campus Placement

- a) Shaheed Bhagat Singh State Technical Campus got marvelous response from industries for conducting campus placement drive, after getting accreditation from National Board of Accreditation (NBA). On 22.11.2014, seven companies have conducted screening tests, group discussions and interviews. They have selected 35 students with a pay packages Rs. 2-6 lacs.



- b) A multinational Company “Infosys” has conducted placement drive in the institute on 6-7 December and selected 35 students.

- c) Rockman India Limited of Hero Group conducted campus placement in the institute and selected 11 students.
- d) Many more companies are in touch with the institution and waiting for placement drive.

Infrastructure Development

- a) The institute has occupied twelve Lecture Halls and twelve Tutorials Rooms which are constructed at the cost of Rs. 6.26 Crore (approx). These lecture halls and tutorial rooms have a sitting capacity of about 2000 students. Addition of 24 new lecture halls and tutorial rooms is a great achievement of the Institute



- b) State-of-art Gymnasium, Basketball Ground, 02 Badminton Courts, Common Room, Beautiful Parks and mess facilities are given to students in new girls hostel, which was constructed at the cost of Rs. 5.28 crore (approx) and inaugurated on 18.02.2014 by Hon'ble Technical Education Minister Sh. Madan Mohan Mittal Ji.
- c) Construction of new Boys Hostel has started and two floors have been completed. This hostel to be constructed at the cost of Rs. 4.00 Crore likely to

be occupied by the end of year 2014. Institute has got Rs. 2.00 grant from AICTE for the construction of this hostel under SC/ST welfare scheme.



- d) The process for the construction of Computer Centre and Central Library at the cost of Rs.6.00 Crore has been initiated and building will be completed by October 2015.
- e) All the three boys hostel and one Girls hostel (old) are renovated and white washed. Similarly all the teaching blocks, dispensary and administrative blocks are renovated and white washed.
- f) 30 CCTV Comers are installed at strategic points throughout the campus and TV screens are provided in HOS's room for constant surveillance of student activities.



- c) Various projects sponsored by AICTE/UGC worth Rs. 66.00 Lacs are in progress and Projects worth Rs. 10 lacs are applied to AICTE for modernization of Labs.



- g) One Conference room and One Seminar Room was developed fitted with Conference Table, Sound System and ergonomically designed Godrej Chairs. Conference rooms are also developed in Each Department.
- h) Corridors of three blocks and girls hostel were furnished with glazing tiles, to renovate the existing building for giving better look.
- i) Footpaths on both sides of the main road were covered with interlocking tiles to facilitate the girl students during summer days.
- j) Footpaths on both sides of the main road were covered with interlocking tiles to facilitate the girl students during summer days.

Student Intake and Financial Position

The Institute has purchased one more multi-utility vehicle Xylo Mohindra.

- a) The intake of B.Tech Programmes in Civil Engineering and Mechanical Engineering was enhanced from 60 to 120 and 120 to 180, respectively. One new Programme of M.Tech in Mechanical Engineering was started
- b) The DDO powers as well as approval of purchase powers were delegated to Head of Departments up to single purchase of Rs. 1.00 Lacs.
- c) The income of the institute has increased considerably during the last 6-7 years as pr detail below:

Proposed infrastructure Development

- a) The institute has applied to Welfare Department for getting grant of Rs. 2.00 Crore for construction of Hostel for SC/ST Girl Students.
- b) The Institute has also submitted a proposal to Sports Authority of India (SAI) for getting a grant of Rs, 6.00 Crore for the construction of Gymnasium.

Year	Income (Crores)	Expenditure (Crores)
2009-10	09.50	08.38
2010-11	13.20	10.80
2011-12	16.20	12.84
2012-13	20.80	16.20
2013-14	24.90	21.73
2014-15	27.0*	24.50

*Projected

Educational Tours

- a) Two faculty members and Hon'ble Chairman BOG has visited PUM Institute of Netherlands during 28 september 2014 to 13th October 2014 for signing MOU with universities of Netherlands for student and faculty exchange programmes. Institute has collaborated with PUM Institute of Netherlands and established office of Foreign affairs for enhancing the employability of students as well as to expose the faculty and students to the latest developments in the field of Science and Technology.
- b) A delegation of 20 members from management, faculty and students of Shaheed Bhagat Singh State Technical Campus participated in India Manufacturing Show IMS-2014 and its concurrent show Taiwan-promoted 'Emma Expo 2014' from September 11-13 at Bangalore International Exhibition Centre (BEIC), to have interaction and network with various international and national audiences including global manufacturers. The show exhibited pavilions from various categories of industries such as Aerospace,

Defence, Automobile, Automation, Robotics, Electronics, Energy, Environment, Infrastructure, Metallurgy, Mining etc. In all IMS housed over 170 exhibitors while Emma Expo 205 exhibitors. Among those participated were – Dinesh Lakra, Chairman, BoG, Dr.T.S.Sidhu, Director, Dr. Rakesh Sharma, Dean Academics, Gaurav Kumar, Administrative Officer, Rajiv Arora, Associate Professor (Chemical Engg), Supriya Sharma and 14 students from different branches of engineering.

- c) The institute has sponsored 10 faculty members for presenting papers in International Conferences:

- i) Dr. R.P. Singh of Department of Applied Sciences attended International Conference at MIAMI, USA from 05-01-2014 to 07-01-2014.
- ii) Dr. Lalit Sharma of Department of Applied Sciences attended International Conference at Beijing, China from 26-04-2014 to 01-05-2014.
- iii) Dr. Neel Kanth Grover of Department of Mechanical Engineering attended International Conference at Beijing, China from 26-04-2014 to 01-05-2014.
- iv) Dr. Lalit Sharma of Department of Applied Sciences attended International Conference at Coimbra, Portugal from 20-06-2014 to 01-07-2014.



- v) Mr. Harinder Pal Singh of Department of Electrical Engineering attended International Conference at Australia from 29-06-2014 to 04-07-2014.
- vi) Dr. R.P. Singh of Department of Applied Sciences attended International Conference at UK from 02-07-2014 to 08-07-2014.
- vii) Mr. Tejpal Librarian attended International Conference at Canada from 10-07-2014 to 20-07-2014.
- viii) Mr. Rajiv Arora of Department of Chemical Engineering attended International Conference at Czech Republic from 23-08-2014 to 27-08-2014.
- ix) Mrs. Parampreet Kaur of Department of Civil Engineering attended International Conference at UK from 21-08-2014 to 28-08-2014.
- x) Dr. A K Tyagi of Department of Applied Sciences attended International Conference at Mexico from 20-08-2014 to 26-08-2014.

Blood Donation & Tree Plantation

- a) Red Ribbon club and NSS Unit have jointly organized Blood Donation Camp on 17 March, 2014 in which 50 units of blood was collected.
- b) A Blood Donation Camp was organized by Lions Club Ferozepur, in collaboration with ACHIEVERS Society and NSS Unit at SBS State Technical Campus on 25th August, 2014. Seventy students have donated blood during this Camp. The camp was inaugurated by Sh. Amit Kumar IAS, ADC Ferozepur.
- c) A Blood Donation camp was organised by 13 Punjab Boys Bn NCC Unit, 5 Punjab Girls Bn NCC unit and Eco-friendly group of SBSSTC, Ferozepur in collaboration with HDFC Bank, Ferozepur on 17 November 2014.



- d) Tree plantation day (Van Mahotsava) was celebrated in collaboration with Lions Club Ferozepur on 22 July, 2014. More than 500 shadowy, fruit bearing and aesthetic tree saplings were planted in the Technical Campus ground on this occasion. Sh. Dinesh Lakra, Chairman-BOG was Chief Guest during this tree plantation drive..



“GREEN EARTH DAY” was celebrated by ACHIEVERS Society in collaboration with Lions Club Ferozepur on 25th August, 2014. More than 200 shadowy, fruit bearing and aesthetic tree saplings were planted in the Technical Campus ground on this occasion. Sh. Amit Kumar IAS, ADC Ferozepur was Chief Guest during this tree plantation drive.



Sports Activities

- a) Annual Athletic Meet was held in the Institute during 19-20 February 2014. About 500 students had participated in the athletic meets.
- b) Diploma students have performed magnificently in the State Level inter Polytechnic Colleges Athletics Meet organized under PTIS (Punjab Technical Institute Sports) held at S.U.S. College of Engineering and Technology, Tangori on 24 and 25 March, 2014.
- c) Girls of this Polytechnic Wing won 2 Gold Medals and 5 Silver Medals, whereas Boys won 1 Gold Medal, 5 Silver Medals and 1 Bronze Medal. In total Polytechnic Wing students won 14 medals, with 3 Gold Medals; 10 Silver Medals and 1 Bronze Medal.
- d) Shaheed Bhagat Singh Rajguru Sukhdev Memorial Society Ferozepur had organized 'Sports Fair' dedicated to the memory of martyrs.

In the various sports events, the girl students of Shaheed Bhagat Singh Technical Campus got first position in Basket-ball competitions.

- e) SBS Technical campus got second position in Punjab Technical University Inter College Athletic Competition.
- f) The Institute has arranged football and volleyball tournaments to provide healthy environments to students.

National Sports Day was celebrated on 29 August which was dedicated to the birth anniversary of Major Dhyan Chand – (29 August 1905 – 3 December 1979) known as 'The Wizard' for his superb ball control in the field of Hockey. Large number of students participated in the race organized in memory of great player.



Curricular, Co-Curricular and Extra-Curricular Activities

- a) The Polytechnic Wing has organized Signature campaign under SVEEP (Systematic Voter Education and Electoral Participation) on dated 7 April, 2014 to raise awareness among urban people to exercise their democratic right of voting in Punjab on 30 April, 2014.

Mr. Gazalpreet Singh was awarded medal by District Administration on 15 August for meritorious services in signature campaign.



- b) Annual cultural festival, namely VIRSA-2014 was celebrated on 12th April, 2014 with great pomp and show.. The main theme of this cultural festival was to aware people to curb the practice of women foeticide, which is an alarming and frightening reality in today's society.

- c) National festivals of republic day and independence day were celebrated in the Institute in which Hon'ble Chairman BOG Sh. Dinesh Lakra has unfurled the national flag. On this occasion, more than 30 different items were performed to remember the freedom fighters of our country.



- d) Acting on the Message of Prime Minister Narendra Modi for "Swachh Bharat Mission", this movement that seeks to create a Clean India, Shaheed Bhagat Singh State Technical Campus, Ferozpur devoted itself towards 'Swachhata' (cleanliness) of its Campus to mark the 150th anniversary of Gandhi's Oct 2 birthday. All the staff members and students of the campus became the part of this cleanliness drive.

The cleanliness drive started from Boundary Wall of Main Gate and proceeded to Hostels, Teaching blocks and staff colony. All the junk, bushes, garbage, grass and unwanted grass was collected and disposed off.

- e) "Engineer's Day" was celebrated on 15 September to commemorate the birth anniversary of the well-known engineer Sir M. Visvesvaraya who was born on the same day in 1860. Debate Competition was organised on this occasion.

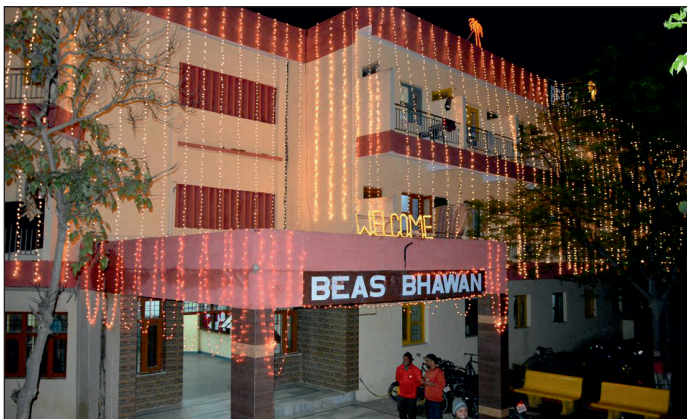
Students were advised to follow the footsteps of Engineers like Sir Mokshagundam Visvesvaraya who brought laurels to the engineering profession.

- f) Motorcycle Rally was organized on 28 September to pay rich tribute to Great Martyr Shaheed-E-Azam Sardar Bhagat Singh on his 108th Birth Anniversary.



The entire entourage was followed by Dr. T. S. Sidhu Campus Director and Mr. Gazal Preet Singh Principal Poly Wing, who were leading the rally on specially decorated jeep.

- g) All faculty and staff members have celebrated the “Diwali Festival-2014” in the campus to promote the spirit of brotherhood. They played various games together along with children. During this occasion, everybody has pledged to work together for the development of the



Institute and to keep SBS campus neat and clean.

- h) The birth anniversary of Sardar Vallabhbhai Patel was celebrated on 31st October 2014 as a "Rashtriya Ekta Diwas". On this occasion, all employees and students has pledged to preserve the unity, integrity and security of our nation. NSS students of the institute organized different events on the above said theme and NCC students organized march past in the evening.
- i) NSS unit of the institute has arranged visit to Pingalwara of Amritsar on 28 February 2014.
- j) Glowing sign boards are installed for each building, hostel, residential areas, and for other utilities
- k) Washing machines have been installed in Girls Hostel for providing facilities to girl students.
- l) NSS unit of the Institute has organized seminar on drug addiction and AIDS on 12th March 2014.
- m) Statue of Great Martyr Shaheed Bhagat Singh Ji is being installed in the Campus at the cost of Rs. 5.00 Lacs.
- n) Two Departmental societies namely AGNEE and ACME had jointly organized Basant Fest in a mega way with message of “Saying No to Chinese Dore” on 29 January, 2014.
- o) Kite Flying Competitions among Boys and Girls students and Staff were organized during this fest Roller Coaster rides and Columbus rides were main attraction among students of all the three Wings (Management, Engineering and Polytechnic Wings). Even faculty, staff and their kids enjoyed rides.

- p) Akhand Path was organised in which Bhai Lakhwinder Singh Ji, Hazoori Raagi Shri Darbar Sahib Amritsar, performed Kirtan from 11 am to 12 noon on 9th March, 2014.
- q) Sixth annual “Bhagvati Jagran” was organized in the campus in third week of November 2014 for the well being of staff and students.



TEQIP Project

- a) Ninety five (95) faculty members have attended training programmes in various parts of the country.
- b) The institute has conducted 20 Faculty Development Programmes.
- c) The computer training was given to 60 administrative and technical staff members for developing their computer skills.
- d) Remedial classes for weak students were started under TEQIP from academic year 2012-13 are continued till date.
- e) 20 faculty members have attended national conferences in various parts of India under TEQIP-II
- f) 12 new labs of various departments have been established and 20 labs have been upgraded with the state of the art equipment under TEQIP-II
- g) Civil work related with repair and alterations has been carried out in different parts of the academic area under TEQIP-II
- h) Faculty has been provided with laptop and other computing facilities and senior faculty members have been given new furniture.
- i) Class rooms have been upgraded to smart class rooms in all departments



- j) Senior administrative functionaries such as Registrar, Deputy Registrar, and Asst. Registrar have attended management capacity development programmes under TEQIP-II.



NBA Accredited B.Tech. Programmes

Chemical Engineering

Computer Sc. & Engineering

Electronics & Comm. Engineering

Electrical Engineering

Mechanical Engineering

