

# Annual Quality Assurance Report (AQAR)

(For Autonomous Colleges)

2016-2017

By

**SHAHEED BHAGAT SINGH STATE TECHNICAL CAMPUS**

Moga Road (NH-95), Ferozepur-152004 (Punjab), India



**राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद**

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

*An Autonomous Institution of the University Grants Commission*  
P. O. Box. No. 1075, Opp: NLSIU, Nagarbhavi, Bengaluru - 560 072 India

# The Annual Quality Assurance Report (AQAR) of the IQAC

## **(For Autonomous Colleges)**

Institutions Accredited by NAAC need to submit an Annual self-reviewed progress report i.e. Annual Quality Assurance Report (AQAR) to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the IQAC at the beginning of the Academic year. The AQAR period would be the Academic Year 1<sup>st</sup> June, 2016- 31<sup>st</sup> May, 2017

### **Part – A**

#### **Data of the Institution**

*(data may be captured from IIQA)*

**1. Name of the Institution:** Shaheed Bhagat Singh State Technical Campus, Ferozepur

- Name of the Head of the institution : Dr. T. S. Sidhu
- Designation : Director
- Does the institution function from own campus : Yes
- Phone No. /Alternate phone no. : 01632-242138
- Mobile no. : 8288012001
- Registered Email : director@sbsstc.ac.in
- Alternate Email : deanacademics@sbsstc.ac.in
- Address : Moga Road, NH 95
- City/Town : Ferozepur
- State/UT : Punjab
- Pin Code : 152004

**2. Institutional status:**

- Autonomous Status ( provide the date of Conformant of Autonomous Status): 29/07/2015
- Type of Institution: Co-education/Men/Women : Co-education
- Location : Rural/Semi-urban/Urban : Rural
- Financial Status: Grants-in aid/ UGC 2f and 12 (B)/ Self financing  
(Please specify) : State Funded
- Name of the IQAC Co-ordinator/Director : Dr. T. S. Sidhu
- Phone no. / Alternate phone no. : 01632-242138
- Mobile : 8288012001
- IQAC e-mail address : deanacademics@sbsstc.ac.in
- Alternate Email address : sbs.academics@gmail.com

**3. Website address** : [www.sbsstc.ac.in](http://www.sbsstc.ac.in)

Web-link of the AQAR: (Previous Academic Year) : <http://www.sbsstc.ac.in/AQAR.php>

4. Whether Academic Calendar prepared during the year?

Yes/No....., if yes, whether it is uploaded in the Institutional website: Yes

Weblink: <https://www.sbsstc.ac.in/PDFs/July-Dec%202016.pdf>

<https://www.sbsstc.ac.in/PDFs/2017.pdf>

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1 <sup>st</sup>	B	2.75	2015	from: 25/06/2015 to: 24/06/2020

6. Date of Establishment of IQAC: 28-08-2015 in 3<sup>rd</sup> Academic Council

7. Internal Quality Assurance System

7.1 Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & duration	Number of participants/beneficiaries
Education quality improvement through teaching of courses using ppts	09/08/2016 (2 <sup>nd</sup> IQAC)	2200
Up-Gradations of Departmental Libraries and strengthening of Central Libraries	09/08/2016 (2 <sup>nd</sup> IQAC)	2200

**Note: Some Quality Assurance initiatives of the institution are:**

**(Indicative list)**

- Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback from all stakeholders collected, analysed and used for improvements
- Academic Administrative Audit (AAA) conducted and its follow up action
- Participation in NIRF
- ISO Certification
- NBA etc.
- Any other Quality Audit

8. Provide the list of Special Status conferred by Central/ State Government-

UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount
Institution	TEQIP-II	Centre Govt.	2012 5 Years	10.0 Crores

9. Whether composition of IQAC as per latest NAAC guidelines: Yes/No: Yes (Uploaded in the website).

10. No. of IQAC meetings held during the year: 02

The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website. Yes/No Yes <https://www.sbsstc.ac.in/policyIQAC.php>

11. Whether IQAC received funding from any of the funding agency to support its activities during the year? No

If yes, mention the amount: Year:

12. Significant contributions made by IQAC during the current year. (maximum five bullets)

IQAC's objective has always been to improve the academic performance of the institution and promote measures for institutional functioning towards quality enhancement.

- Up gradation of Departmental libraries and strengthening of central library.
- Marking of student attendance on ERP.
- Grace marks in the end semester examination.
- Moderation of mid semester marks.
- Academic audit of the Departments in the BOG.

13. Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year

Plan of Action	Achievements/Outcomes
Approval of academic calendar	Approved in IQAC
Education quality improvement through teaching of courses using ppts	Approved in IQAC
HODs of all the departments to ensure the quality of the end semester question papers.	Approved in IQAC
Minor projects will be done in each Lab	Approved in IQAC

14. Whether the AQAR was placed before statutory body? Yes /No: Yes

Name of the Statutory body: Academic Council Date of meeting(s): 29-09-2017

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning?

Yes/No: No

Date:

16. Whether institutional data submitted to AISHE: Yes/No: Yes

Year: 2016-17

Date of Submission: 12-04-2017

17. Does the Institution have Management Information System?

Yes /No : Yes

If yes, give a brief description and a list of modules currently operational. (Maximum 500 words)

The Institute has adopted a Management Information System for Academics, HRMS, Finance & Accounts and for grading students in examinations. The MIS has been used in practice to store student data such as personal data, Fee, Exam records and library details. There is an online system of filling examination forms by students in their logins and viewing of their results. Continuous Internal and external assessment is uploaded by faculty in MIS through their logins based upon which the performance of students performance is analyzed. It also helps to view fee category wise student data, admission status for all classes, cast category wise statistical report, admission fee summary report, library status details etc. Apart from this it let you know exact status of admitted and vacant seats of any class. Details of fee collected, class wise, and fee category wise analysis.

The faculty and staff mark their attendance on Biometric system, their data, payroll and leaves are managed by MIS. The institute also promotes online system of fee management through payments of fee of students and receipt directly through their Institute logins.

The institute used the following modules of ERP

#### **ACADEMICS:**

Student data management

#### **HRMS**

Employee data management

Biometric attendance, Leave Management

Payroll

#### **FINANCE AND ACCOUNTS**

Fee Management

Receipts and Payments

#### **EXAM AND GRADING**

Exam form filling,

Conduct of exam

Declaration of Result

### **Part-B**

**CRITERION I – CURRICULAR ASPECTS****1.1 Curriculum Design and Development**

## 1.1.1 Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Date of Revision
UG	CSE	01/06/2016
PG	CSE	01/06/2016
UG	ECE	03/01/2017
PG	ECE	27/07/2016
UG	CE	18/05/2016
PG	MCA	17/05/2016
PG	MBA	17/05/2016
UG	BCA	17/05/2016
UG	CHE	28/10/2016
UG	Architecture	18/05/2015
UG	ME	15/10/2016
PG	ME	15/10/2016

## 1.1.2 Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Date of Introduction	Course with Code	Date of Introduction
B.Tech-CSE (Infosys)	03/06/2016	Campus Connect Program to impart Industry oriented subjects in the curriculum	03/06/2016
B.Tech-ECE	11/07/2016	Soft Skills	11/07/2016
B.Tech -ECE	03/01/2017	Professional Skills-2 (BTHU401A)	03/01/2017
B.Tech-ECE	03/01/2017	1. Web Systems and Technology BTEC-411A 2. Display Technologies BTEC-412A	03/01/2017
B.Tech-ECE	15/10/2016	Online technical test on “TEAM HACKEARTH, Bangalore, Karnataka	15/10/2016
B.Tech-ECE	13/09/2016	Technical seminar “Blogging as Career Option	13/09/2016
B.Tech-CE	06/06/2016	Fluid Mechanics Lab (BTCE-305A)	06/06/2016

		Strength of Material Lab (BTCE-306A) Survey Lab (BTCE 307A) Training –I (BTCE-308A) Professional Skills –I (BTHU-301A)	
B.Tech-CE	09/01/2017	Structural Analysis Lab (BTCE-405A) Professional Skills Lab(BTCE-401A)	09/01/2017
B.Tech-CE	06/06/2016	Transportation Engineering Lab (BTCE-506) Geotechnical Engineering Lab(BTCE-507) Computer Aided Structural Drawing-I (BTCE-508) Survey Camp (BTCE-509)	06/06/2016
B.Tech-CE	09/01/2017	Environmental Engineering Lab (BTCE-607) Computer Aided Structural Drawing II (BTCE-608)	09/01/2017
B.Tech-CE	06/06/2016	Project (BTCE-805)	06/06/2016
B.Tech-CE	09/01/2017	Software Training (BTCE-701) Industrial Training (BTCE701)	09/01/2017
B. Tech-CHE	18/05/2016	Professional Skills (BTHU-101A)	18/05/2016

## 1.2 Academic Flexibility

### 1.2.1 New programmes/courses introduced during the Academic year

Programme/Course	Date of introduction
Web Systems and Technology BTEC-411A	03/01/2017
Display Technologies BTEC-412A	03/01/2017
ECE (M.Tech) 1. MECE1-104 (Research Lab-1)	27/07/2016
2. MECE1-207 (Research Lab-2)	27/07/2016
Professional Skills –I (BTHU-301A)	06/06/2016
Professional Elective (RMEG BTCE-311A)	09/01/2017
Professional Skills –II (BTHU-401A)	06/06/2016
Professional Elective	09/01/2017

(Geomatics BTCE-411A)					
1.2.2 Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.					
Name of Programme adopting CBCS	UG	PG	Date of implementation of CBCS / Elective Course System	UG	PG
All B. Tech ,M.Tech, BCA,MCA,MBA and B.Arch Courses	08	06	15/06/2015	08	06
<b>1.3 Curriculum Enrichment</b>					
1.3.1 Value-added courses imparting transferable and life skills offered during the year					
Value added courses			Date of Introduction	Number of students enrolled	
Essential of Information Technology			03/08/2016	134	
Soft Skills			11/07/2016 - 23/01/2017	173	
Computer Networks			03/01/2017	33	
Elements of Electrical Engg. (EEE1)			01/08/2016	42	
Substation Equipment			06/07/2016	64	
Elements of Electrical Engg. (EEE 2)			14/01/2017	42	
Special Machines			03/01/2017	64	
Plant Utilities			15/07/2016	18	
Work Study			15/07/2016	147	
Professional Skills			01/01/2017	147	
NSS			01/06/2016	200	
Independence day 2016 celebration by NCC Wing			15/08/2016	40	
1.3.2 Field Projects / Internships under taken during the year					
Project/Programme Title			No. of students enrolled for Field Projects / Internships		
Industrial Training			309		
Industrial visit			58		
Survey Camp			120		
Major Project			31		
<b>1.4 Feedback System</b>					
1.4.1 Whether structured feedback received from all the stakeholders.					
1) Students	2) Teachers	3) Employers	4) Alumni	5) Parents	
Yes	Yes	Yes	Yes	Yes	



1.4.2 How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

The feedback from the students is obtained to evaluate teaching-learning process. The teachers are apprised of the same and are advised to make the appropriate changes in their teaching method if required. Feedback forms of a particular subject teacher is evaluated on the basis of marks given by the students and in case any improvement is needed proper action is taken. In case of teachers monthly meeting are conducted by head of the department for their feedback and needed measures are taken for development of institution. Further, the overall academic, administrative, professional development and research contributions of every teacher are analyzed by the head of the department and the Director once in a year and feedback from the teacher is obtained about difficulties and suggestions with regard to academic assignments /self growth. The feedback from alumni is also collected to get their suggestions for improvement of overall working of the department. Further, the feedback from designated faculty members, Industry persons and alumni is obtained for revision of curriculum to keep the study scheme updated with new emerging technologies. We also try to remove syllabus related difficulties. The teachers also give relevant feedback and actively contribute towards the development of an institution. The employer takes every care for the overall development of the institution. An alumni and parents are well satisfied with the progress of an institution in all respects. All the teachers are hard-working and their service is being used for the educational progress of the institution. An employer has also given positive remark regarding overall development of the institution. An employer is dutiful and takes every care. An alumni and parents are glad to see the ever increasing educational progress of the institution. The parents interact with the employer and staff members, they are happy to see their wards being educated properly and marching ahead in life towards achieving goal.

## **CRITERION II -TEACHING-LEARNING AND EVALUATION**

### **2.1 Student Enrolment and Profile**

#### **2.1.1 Demand Ratio during the year**

Name of the Programme	Number of seats available	Number of applications Received	Students Enrolled
B. Tech-CSE	126	126	126
M.Tech-CSE	18	04	04
B. Tech-ECE	94	40	40
M.Tech-ECE	18	02	02
B.Tech-EE	63	24	17
B. Tech-CE	126	59	59
MCA	63	10	12
BCA	60	35	32
MBA	63	10	10
B. Tech-CHE	32	12	10
B.Arch	40	10	08
B. Tech-ME	252	90	90
M.Tech-ME	18	--	--

### **2.2 Catering to Student Diversity**

2.2.1. Student - Full time teacher ratio (current year data)					
Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of full time teachers available in the institution teaching only UG courses	Number of full time teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2016-2017	1660	45	109	04	08

### 2.3 Teaching –Learning Process

#### 2.3.1 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of teachers on roll	Number of teachers using ICT ( <i>LMS, e-Resources</i> )	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used
121	113	LCD Projectors, Internet, Laptop, NPTEL Video Lectures, LCD Projectors, mobile/web learning	35	34	PPTs, NPTEL Video Lectures, E-Library, E-Books Software's, online data bases, e-reference books, e-thesis, Swayam, PPTs, Video Lectures, Softwares, Lectures through PPT, Using ICT enabled classroom for teaching, Using online LMS Platforms Google classroom, Zoom, Google meet for teaching.

#### 2.3.2 Students mentoring system available in the institution? Give details. (maximum 500 words)

All the faculty members of the department are assigned as Mentors of one of the batch of the department. The mentors deal with the complaints/ grievances of students and ask suggestions about the departmental activities. Female faculty members are also assigned task as mentors to take care about the difficulties faced by girl students. The most senior and experienced faculty member is Chief Mentor. He is involved in periodic meetings with Mentors of department to optimal solution to problems being faced by students.

Each faculty member use to advice students about their respective subjects. The students find this system

very useful from examination point of view. They get problem resolved from the teachers. Right from the admission procedure till the end of session an experienced faculty guide and counsel students. The mentors deal with the complaints/ grievances of students and ask suggestions about the departmental activities. Female faculty members are also assigned task as mentors to take care about the difficulties faced by girl students. In this mentoring system, almost all teachers actively participate, making the students educationally, professionally and from career point of view beneficial. Teachers not only educationally prepare the students but also try to bring about their personality development by adopting mentoring system.

All Departments at Shaheed Bhagat Singh State Technical Campus, Ferozepur offers a highly-efficient Mentoring system through which a group of students consisting of 12-15 students are assigned to a faculty member at the commencement of the program. Mentors meet their students and guide them with their studies and extra-curricular activities. They also provide advice relating to selection of major, career guidance and personal problems. The mentors act as guides to the students during their summer and final projects.

Department has an integrated mentoring system where the faculty acts as a link between the students and the institution and perform the following functions-

- Mentors are assigned to monitor and guide students all through the four years.
- Mentors coordinate with the parents regarding the progress of the students.
- Mentors also keep track of the mentees' performance during the summer internship by continuous interaction with the industry guide designated to the student by the company.
- Mentors communicate with fellow faculty and promote mentees at the time of difficulty / opportunity to help them develop further in their areas of interest.

Head of the Department also act as a mentor and monitor different activities of the assigned mentors and the students. The HOD will:

- Meet all mentors of the department at least once a month for the reviewing of proper implementation of the system.
- Suggest and advise mentors whenever necessary.
- Initiate administrative action on a student (when necessary).
- Give a detailed report of the mentoring system to the Head of the Institute time to time.

The Academic Committee of the Institute discusses the mentoring related issues at least twice in a semester and revises or upgrade the system if necessary.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
1705	121	01:14

#### **2.4 Teacher Profile and Quality**

2.4.1 Number of full time teachers appointed during the year				
No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
161	132	28	31	24
2.4.2 Honours and recognitions received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)				
Year of award	Name of fulltime teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies	
2016 -2017	Dr Rajni (National level)	Professor	Appreciation letter for Organizing National conference on Computing, Communication and Electrical Systems (NCCCES-16) as Co-Convener at SBSSTC, Ferozepur on November 21-22, 2016.	
2016 -2017	Dr Rajni (National level)	Professor	Appreciation letter for chairing a session and being Member of Editorial Board, in National conference on Computing, Communication and Electrical Systems (NCCCES-16) at SBSSTC, Ferozepur	
2016 -2017	Dr Rajni (International level)	Professor	Appreciation letter received from Editor-in-Chief for reviewing paper submitted to Journal of Engineering Science and Technology (JESTEC, Malaysia (Scopus indexed))(International level)	
2016 -2017	Dr. Sanjeev Dewra (International Level)	Associate Professor	Selected the Biography in Marquis who's who in the world 2016 (33 <sup>rd</sup> edition) for outstanding achievement award from Marquis who's who in the world.	
2016 -2017	Dr. Sanjeev Dewra (National Level)	Associate Professor	Appreciation letter for the successful conduct of National Conference NCCCES-2016 as Convenor during November 21-22, 2016.	
2016 -2017	Dr. Sanjeev Dewra (National Level)	Associate Professor	Editorial Board Member of different Journals like TECS,IJCRCE,JTSSN	
2016 -2017	Dr. Sanjeev Dewra (National Level)	Associate Professor	Editorial Board Member of Enriched Publications Pvt. Ltd. From 12/08/2016.	
2016-2017	Inderjeet Singh Gill (State Level)	Associate Professor	Got letter of appreciation from SDM Kharar for performing election duty during Punjab Vidhan Sabha Elections 2017 in Jan-Feb,2017.	
2016 -2017	Dr. Vikram Mutneja (National Level)	Associate Professor	Received Certificate of Appreciation for organizing Team of National Conference on Communication, Computing and Systems (NCCCS-2016) as Session Chair, held at SBSSTC,	

			Ferozpur under TEQIP (II) during 21-22 November, 2016.
2016 -2017	Dr. Vikram Mutneja (National Level)	Associate Professor	Received Certificate of Appreciation for organizing Team of National Conference on Communication, Computing and Systems (NCCCS-2016) as Member of Editorial Board, held at SBSSTC, Ferozpur under TEQIP (II) during 21-22 November, 2016.
2016 -2017	Amit Grover	Assistant Professor	Editorial Board Member of different Journals like IJRET, IJSER
2016 -2017	Ms Anupam Mittal (National level)	Assistant Professor	Appreciation letter received from Director for organizing National conference on Communication Computing and Control System (NCCCES-16) on Nov 21 <sup>st</sup> - 22 <sup>nd</sup> 2016 at SBSSTC, Ferozpur (as session chair)
2016 -2017	Dr. Amit Arora	Associate Professor	Springer Best Paper Award at International Conference on Recent Advances in Bio-energy Research(ICARBER), Sardar Swaran Singh National Institute of Renewable Energy, Kapurthala, Punjab, India
2016 -2017	Dr. Rajiv Arora	Associate Professor	Best Paper award in National Conference on Energy, Economy and Environment Energy, Dec 16th-17th 2016 at NIT, Calicut.
2016 -2017	Dr. A. K. Tyagi	Professor	Honorary Membership of New York Academy of Sciences.

## 2.5 Evaluation Process and Reforms

2.5.1 Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Examination Session	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
B. Tech.	ME	Nov/ Dec 2016	1 <sup>st</sup> Semester	20/12/2016	31/03/2017
			3 <sup>rd</sup> Semester	05/12/2016	08/03/2017
			5 <sup>th</sup> Semester	06/12/2016	21/02/2017
			7 <sup>th</sup> Semester	03/12/2020	21/02/2017
		May/June 2017	2 <sup>nd</sup> Semester	26/05/2017	15/06/2017

			4 <sup>th</sup> Semester	15/05/2017	16/08/2017
			6 <sup>th</sup> Semester	16/05/2017	02/08/2017
			8 <sup>th</sup> Semester	01/01/2016	13/06/2017
B. Tech.	EE	Nov/ Dec 2016	1 <sup>st</sup> Semester	20/12/2016	31/03/2017
			3 <sup>rd</sup> Semester	05/12/2016	28/02/2017
			5 <sup>th</sup> Semester	06/12/2016	08/02/2017
			7 <sup>th</sup> Semester	15/07/2016	12/01/2017
		May/June 2017	2 <sup>nd</sup> Semester	26/05/2017	14/06/2017
			4 <sup>th</sup> Semester	15/05/2017	16/08/2017
			6 <sup>th</sup> Semester	16/05/2017	02/08/2017
			8 <sup>th</sup> Semester	17/05/2017	12/06/2017
B. Tech.	CE	Nov/ Dec 2016	1 <sup>st</sup> Semester	20/12/2016	31/03/2017
			3 <sup>rd</sup> Semester	05/12/2016	08/03/2017
			5 <sup>th</sup> Semester	06/12/2016	24/01/2017
			7 <sup>th</sup> Semester	03/12/2020	12/01/2017
		May/June 2017	2 <sup>nd</sup> Semester	26/05/2017	15/06/2017
			4 <sup>th</sup> Semester	15/05/2017	16/08/2017

			6 <sup>th</sup> Semester	16/05/2017	04/08/2017
			8 <sup>th</sup> Semester	01/01/2017	13/06/2017
B. Tech.	ECE	Nov/ Dec 2016	1 <sup>st</sup> Semester	20/12/2016	31/03/2017
			3 <sup>rd</sup> Semester	05/12/2016	28/02/2017
			5 <sup>th</sup> Semester	06/12/2016	24/01/2017
			7 <sup>th</sup> Semester	03/12/2016	12/01/2017
		May/June 2017	2 <sup>nd</sup> Semester	26/05/2017	14/06/2017
			4 <sup>th</sup> Semester	15/05/2017	16/08/2017
			6 <sup>th</sup> Semester	16/05/2017	14/06/2017
			8 <sup>th</sup> Semester	01/01/2017	12/06/2017
B. Tech.	CHE	Nov/ Dec 2016	1 <sup>st</sup> Semester	20/12/2016	31/03/2017
			3 <sup>rd</sup> Semester	05/12/2016	22/02/2017
			5 <sup>th</sup> Semester	06/12/2016	19/01/2017
			7 <sup>th</sup> Semester	15/07/2016	12/01/2017
		May/June 2017	2 <sup>nd</sup> Semester	26/05/2017	14/06/2017
			4 <sup>th</sup> Semester	15/05/2017	11/08/2017
			6 <sup>th</sup> Semester	16/05/2017	16/06/2017

			8 <sup>th</sup> Semester	17/05/2017	12/06/2017
B. Tech.	CSE	Nov/ Dec 2016	1 <sup>st</sup> Semester	20/12/2016	31/03/2017
			3 <sup>rd</sup> Semester	05/12/2016	08/03/2017
			5 <sup>th</sup> Semester	06/12/2016	22/02/2017
			7 <sup>th</sup> Semester	15/07/2016	12/01/2017
		May/June 2017	2 <sup>nd</sup> Semester	26/05/2017	15/06/2017
			4 <sup>th</sup> Semester	15/05/2017	16/08/2017
			6 <sup>th</sup> Semester	16/05/2017	09/08/2017
			8 <sup>th</sup> Semester	17/05/2017	12/06/2017
BCA	BCA	Nov/ Dec 2016	1 <sup>st</sup> Semester	05/12/2016	02/03/2017
			3 <sup>rd</sup> Semester	05/12/2016	30/03/2017
			5 <sup>th</sup> Semester	01/12/2016	28/02/2017
		May/June 2017	2 <sup>nd</sup> Semester	15/05/2017	09/08/2017
			4 <sup>th</sup> Semester	12/05/2017	04/08/2017
			6 <sup>th</sup> Semester	11/05/2017	08/06/2017
MCA	MCA	Nov/ Dec 2016	3 <sup>rd</sup> Semester	06/12/2016	28/02/2017
			5 <sup>th</sup> Semester	03/12/2016	02/02/2017



		May/June 2017	4 <sup>th</sup> Semester	13/05/2017	09/08/2017
			6 <sup>th</sup> Semester	01/01/2017	07/06/2017
MBA	MBA	Nov/ Dec 2016	1 <sup>st</sup> Semester	13/12/2016	02/03/2017
			3 <sup>rd</sup> Semester	23/12/2016	02/03/2017
		May/June 2017	2 <sup>nd</sup> Semester	20/05/2017	16/02/2018
			4 <sup>th</sup> Semester	19/05/2017	08/06/2017
B. Arch	B. Arch	Nov./ Dec 2016	1 <sup>st</sup> Semester	15/12/2016	22/02/2017
			3 <sup>rd</sup> Semester	16/12/2016	02/02/2017
		May/June 2017	2 <sup>nd</sup> Semester	19/05/2017	17/11/2017
			4 <sup>th</sup> Semester	17/05/2017	03/08/2017

2.5.2 Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year \*Do not include re-evaluation/ re-totalling

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
18	1705	1.0

## 2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

CSE	<a href="https://www.sbsstc.ac.in/dptCSengg.php?dept=%27CSE%27">https://www.sbsstc.ac.in/dptCSengg.php?dept=%27CSE%27</a>
ECE	<a href="https://www.sbsstc.ac.in/dptECengg.php">https://www.sbsstc.ac.in/dptECengg.php</a>
EE	<a href="http://sbsstc.ac.in/dptEEengg.php">http://sbsstc.ac.in/dptEEengg.php</a>
CE	<a href="https://www.sbsstc.ac.in/dptCEengg.php">https://www.sbsstc.ac.in/dptCEengg.php</a>
CHE	<a href="https://www.sbsstc.ac.in/dptCHengg.php">https://www.sbsstc.ac.in/dptCHengg.php</a>
ME	<a href="https://www.sbsstc.ac.in/dptMEengg.php">https://www.sbsstc.ac.in/dptMEengg.php</a>
Architecture	<a href="https://www.sbsstc.ac.in/dptArch.php">https://www.sbsstc.ac.in/dptArch.php</a>

## 2.6.2 Pass percentage of students

Programme Code	Programme name	Number of students appeared in the final year examination	Number of students passed in final Semester /year examination	Pass Percentage
CSE	B.Tech-CSE	146	143	97.94
ECE	B.Tech-ECE	61	36	59
ECE	M.Tech-ECE	08	06	75
EE	B.Tech-EE	72	47	65.28
CE	B.Tech-CE	60	54	90
MCA	MCA	22	22	100
BCA	BCA	21	14	66
MBA	MBA	16	14	87
CHE	B.Tech-CHE	34	33	97
B.Arch	Architecture	18	12	66.67
ME	B.Tech-ME	144	113	78

## 2.7 Student Stastification Survey

2.7.1 Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

A feedback survey to assess the students' satisfaction on the curriculum, teaching learning processes and infrastructure is made. Opinion of all the students is collected using a questionnaire of structured feedback forms. Students' feedback is rated on 5-point scale from 1 to 5. There are a number of closed and open-ended questions in the feedback questionnaire. Most of the students are satisfied with the

syllabus covered and the teaching style of the teachers. Students also find teachers fair in internal evaluation process. The teaching, mentoring process, Academics, placement and library facilitates, social and emotional growth is shown satisfactory. Students are satisfied with the illustrations of teachers for explaining concepts through examples and applications. Most of the students are fully satisfied with the teachers' identification of students' strengths and weaknesses to encourage them with providing right level of challenges. The students' feedback also shows that they also agree that the institution makes effort to engage them in the monitoring, review and continuous quality improvement of the teaching learning process.

<https://docs.google.com/forms/d/e/1FAIpQLSd9lcfRHSqUZxNpk3teYnwR5w5488L1B4CwSFQWvpcR5pi7SA/viewform>

### CRITERION III- RESEAECH, INNOVATIONS AND EXTENSION

#### 3.1 Promotion of Research and Facilities

3.1.1 The institution provides seed money to its teachers for research,

Yes

Name of the teacher getting seed money	The amount of seed Money	Year of receiving grant	Duration of the grant
Dr. Sunny Behal	6000/-	14/01/2016	6 Month
Dr. Vishal Sharma	6000/-	14/01/2016	6 Month
Sh. Rakesh Kumar	6000/-`	14/01/2016	6 Month
Sh. Sarabhjit Singh	17000/-	29/01/2016	6 Month
Sh. Rakesh Kumar	4946/-	24/05/2016	One Year
Dr. Rajiv Arora	5496/-	19/04//2016	One Year

3.1.2 Teachers awarded National/International fellowship for advanced studies/ research during the year

	Name of the teacher awarded the fellowship	Name of the Award	Date of Award	Awarding Agency
National	---	---	---	---
International	---	---	---	---

#### 3.2 Resource Mobilization for Research

3.2.1 Research funds sanctioned and received from various agencies, industry and other organizations

Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the Year
Major projects	2 years	AICTE, New Delhi	4.5 lac	4.5 lac
Minor Projects	-	-	-	-
Interdisciplinary Projects	-	-	-	-
Industry sponsored Projects	-	-	-	-
Projects sponsored by the University/ College	-	-	-	-
Students Research Projects	-	-	-	-

(other than compulsory by the College)				
International Projects TEQIP-II	5 Year (2012-17)	MHRD	World bank	10 crore
Any Other (Specify)	-	-	-	-
Total				10.045 crore

3.2.2 Number of ongoing research projects per teacher funded by government and non-government agencies during the years

- Rs. 23.69 Lacs sanctioned to PhD Research Scholar Mrs Navjot Kaur under the guidance of Dr. Monika Sachdeva in 2015
- One project by Dr Kultardeep Singh under Unnat Bharat Abhiyan

### 3.3 Innovation System

3.3.1 Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry Academia Innovative practices during the year

Title of Workshop/Seminar	Name of Dept.	Dates
Technical workshop on “HADOOP and IOS ”	ECE	24/08/2016
Technical seminar on “Blogging as Career Option”	ECE	13/09/2016
Organized the online technical test	ECE	15/10/2016
Technical workshop on “Quadcopter, Advance Robotics, IOT, Aurdino and Raspberry PI”	ECE	16/02/2017
Organized industrial visit of students of ECE 4 <sup>th</sup> and 6 <sup>th</sup> semester students	ECE	07/04/2017
The departmental annual techfest function “SELKOTRONIX 2017”	ECE	09/03/2017 10/03/2017

3.3.2 Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of the Awardee	Awarding Agency	Date of Award	Category
Engineering Wing of the Institute has been awarded with “Outstanding Technical Institution Award” under Best Engineering Colleges Category for the year 2015-2016	SBSSTC, FZR	NITTTR CHD	07/09/2016	Best Engineering Colleges Category
Institute got State Award “Green Campus Award”	SBSSTC, FZR	Hon'ble Forest Minister Punjab Sh. Chunni Lal Bhagat on the occasion of	22/08/2016	State Award “Green Campus Award” along with cash prize of Rs.

		State Level Function "Van Mahotsav"		One Lac
Technical Events	SBSSTC, FZR	NIRMAAN 2K17 ISCE	08/02/2017, 09/02/2017	Technical Events

### 3.3.3 No. of incubation centre created, start-ups incubated on campus during the year

Incubation Centre	Name	Sponsored By
—	—	—
Name of the Start - up	Nature of Start - up	Date of Commencement
—	—	—

## 3.4 Research Publications and Awards

### 3.4.1 Ph.Ds awarded during the Year

Name of Department	No. of Ph.Ds awarded
ECE	01
Chemical Engineering	01
DASH	02

### 3.4.2 Research Publications in the Journals notified on UGC website during the year

	Department	No. of Publication	Average impact factor, if any
International	CSE	14	—
National	ECE	01	—
International	ECE	30	0.24
National	EE	01	—
International	EE	06	—
International	DASH	23	—
International	ME	07	1.92

### 3.4.3 Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	No. of Publication
CSE	06
ECE	06
EE	07
CE	10
CHE	12
DASH	06

### 3.4.4 Patents published/awarded during the year

Patent Detail	Patent Status/Published Filed	Patent Number	Date of Award
—	—	—	—

3.4.5 Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or Pub Med/ Indian Citation Index

Title of Paper	Name of the Author	Title of the journal	Year of Publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
Trends in Validation of DDoS Research	Sunny Behal, Krishan Kumar	Elsevier Journal of Procedia Computer Science	2016	—	SBSSTC, Ferozepur	32
Face Recognition system using Genetic Algorithm	Pratbiha, Sunny Behal, Pritpal Singh	Elsevier Journal of Procedia Computer Science	2016	—	SBSSTC, Ferozepur	39
Performance analysis of web services under http attack using genitestbed	Kaur Ajitpal, Kaur, Daljeet, Kumar, Krishan, Behal Sunny	International journal of control theory and applications	2016	—	SBSSTC, Ferozepur	—
Performance analysis of load balancing algorithms in cloud computing environment	Brar Dheeraj Pal Singh, Chawla Amanpreet, Singh Amar, Chawla Isha	International journal of innovative research in computer and communication engineering	2016	—	SBSSTC, Ferozepur	—
A novel information divergence metric for detecting DDoS attacks	Behal, Sunny, Kumar Krishan	International journal of computer science and information security	2016	—	SBSSTC, Ferozepur	1
Performance measurement of web services udp attack using genitestbed	Mehto, Rinkel, Sachdeva Monika, Behal Sunny	International journal of innovations in engineering and technology	2016	—	SBSSTC, Ferozepur	1

Impact analysis of DDoS attacks on video streaming services	Kaur Daljeet, Sachdeva Monika, Mehto Rinkel	International journal of emerging technology and advanced engineering	2016	—	SBSSTC, Ferozepur	—
Comparative performance analysis of manet routing protocols	Parminder Kaur, Monika Sachdeva, Gagandeep	International journal of advances in cloud computing and computer science	2016	—	SBSSTC, Ferozepur	—
Impact of black hole attack on performance of AODV routing protocol	Parminder Kaur, Monika Sachdeva, Gagandeep	International journal of engineering and advanced technology	2016	—	SBSSTC, Ferozepur	—
Measuring the impact of ddos attacks on web services – a real time experimentation	Behal, Sunny, Kumar Krishan	International journal of computer science and information security	2016	—	SBSSTC, Ferozepur	10
Discrimination of DDoS attacks and flash events using Pearson's product moment correlation method	Shifali, Sachdeva, Monika, Behal, Sunny	International journal of computer science and information security	2016	—	SBSSTC, Ferozepur	12
A brief review on image restoration techniques	Rani Shilpa, Jindal Sonika, Kaur, Bhavneet	International journal of computer applications	2016	—	SBSSTC, Ferozepur	—
Content based image retrieval using selective region matching with region of interest and svm	Charaya, Sahil, Jindal Sonika; Kaur Bhavneet	International journal of computer applications	2016	—	SBSSTC, Ferozepur	—
A review on image segmentation using GPU	Kaur Gurpreet, Jindal Sonika	International journal of computers & technology	2016	—	SBSSTC, Ferozepur	—
Having an eagle eye on geni	Shifali Sachdeva,	International journal of control	2016	—	SBSSTC,	—

	Monika Behal, Sunny	theory and applications			Ferozepur	
Analysis of web services under http attack using real time testbed	Kaur Harjeet, Kumar Krishan, Behal Sunny	International journal of control theory and applications	2016	—	SBSSTC, Ferozepur	—
A survey on LEACH and other's routing protocols in wireless sensor network	Vishal Kumar Arora, Vishal Sharma, Monika Sachdeva	Optik-International Journal for Light and Electron Optics	2016	—	SBSSTC, Ferozepur	81
Protection and evaluation of bus and ring topologies using hybrid RAMAN-EDFA amplifier	S Dewra, RS Kaler	Optoelectronics and Advanced Materials-Rapid Communications	2015-16	05	SBSSTC, Ferozepur	03
Performance analysis of optical communication system using different channels	Heena Goyal, Jyoti Saxena, Sanjeev Dewra	International Journal Adv Research Comput Commun Eng	2015-16	08	SBSSTC, Ferozepur	08
Comparative Analysis of Different Modulation Techniques in Coherent Optical Communication System	Amrinder Kaur, Sanjeev Dewra	International Journal of Innovative Research in Computer and Communication Engineering	2015-16	04	SBSSTC, Ferozepur	04
Performance Analysis of Hybrid WDM-TDM Passive Optical Network with different bit rates	Ramandeep Sharma, Sanjeev Dewra	International Journal of Advanced Research in Computer Science and Software engineering	2015-16	02	SBSSTC, Ferozepur	02
Comparative Analysis of CRC-32 and SHA-1 Algorithms in	Amit Grover	International Journal of Advance Engineering	2015-16	05	SBSSTC, Ferozepur	05



WEP		Technology and Application				
LEACH and Extended LEACH Protocols in Wireless Sensor Network- A Survey	Amit Grover	International Journal of Computer Applications	2015-16	18	SBSSTC, Ferozepur	18
Different Techniques Used for Carry Select Adder- A Review	Amit Grover	International Journal of Computer Applications	2015-16	03	SBSSTC, Ferozepur	03
Fabrication and Applications of Fiber Bragg Grating- A Review	Amit Grover	International Journal of Advance Engineering Technology and Application	2015-16	23	SBSSTC, Ferozepur	23
Capacity Estimation of an Infrastructure Network Carrying HTTP and E-Mail Data based on IEEE 802.11b WLAN Standard	Amit Grover	International Journal of Computer Applications	2015-16	03	SBSSTC, Ferozepur	03
Design Approaches for a Novel Reversible 4-bit Comparator	Chakshu Goel	International Journal of Mathematical Sciences and Computing(IJMSC)	2015-16	03	SBSSTC, Ferozepur	03
CSC-SR structure loaded electrically small planar antenna	Rajni	Applied Computational Electromagnetics Society Journal	2015-16	03	SBSSTC, Ferozepur	02
Modeling of split ring resonators loaded microstrip line with different orientations	Rajni	International Journal of Electrical and Computer Engineering	2015	03	SBSSTC, Ferozepur	03
Metamaterial inspired patch antenna for ISM band by adding single-layer	Rajni	International Journal of Electrical and Computer Engineering	2015-16	03	SBSSTC, Ferozepur	03

complementary split ring resonators						
Complementary split ring resonator based sensor for crack detection	Rajni	International Journal of Electrical and Computer Engineering	2015-16	06	SBSSTC, Ferozepur	05
Metamaterial inspired circular patch antenna using complementary split ring resonator and complementary spiral resonator	Rajni	International Journal of Applied Engineering Research	2015-16	01	SBSSTC, Ferozepur	01
Detection of sub-millimeter crack on metal surface using complementary spiral resonator	RajniRajni	International Journal of Applied Engineering Research	2015-16	01	SBSSTC, Ferozepur	01
Magnetic resonance in spiral resonators	Rajni	International Journal of Applied Engineering Research	2015-16	03	SBSSTC, Ferozepur	01
Resonance Characteristics and Effective Parameters of New Left Hand Metamaterial	Rajni	TELKOMNIKA Indonesian Journal of Electrical Engineering	2015-16	02	SBSSTC, Ferozepur	—
Traditional housing typologies of Punjab :A learning lesson for sustainability	Ar. Avinash Singh	UGC Sponsored National seminar on Regional Architecture	2016	—	—	—
Green Chemical Extraction of Binary Mixture of Acid Dyes from Textile Effluent	Narinderjit Kaur, Sangeeta Sharma, Ekta Khosla	International Journal of Green & Herbal chemistry	2016	1.83	SBSSTC, Ferozepur	—

Optimum retreatment conditions for obtaining highly ordered anodized aluminium oxide film	Harleen kaur, Prabhjot Kaur, Lalit Sharma, Sangeeta Sharma, and Manoj Kushwaha	Global journal of engineering science and researches	2016	4.022	SBSSTC, Ferozepur	—
Utilization of Agricultural Waste Material as Aggregates in Partial Replacement of Coarse Aggregates in the Conventional Concrete, DOI: 10.5958/2454-8618.2016.00004.3.	Gurmit Singh, Amit Arora, Ranjeet Singh and Anand K. Tyagi	Journal of Bio-fuel and Bio-energy	2016	2.8	SBSSTC, Ferozepur	—
ERP Implementation in Indian Perspective: Critical Issues	Sangeeta Arora, Raminder Pal Singh	International Journal of Research in IT and Management.	2016	—	SBSSTC, Ferozepur	—
Exploring the Relationship between Attitude of Consumer with Purchasing Intention of Green Packaged Food Products ,	Priya Sodhi, Raminder Pal singh	Asian Journal of Research in Business Economics and Management.	2016	0.2	SBSSTC, Ferozepur	—
Structural and electrical analysis of microwave processed YSZ electrolytes for SOFC prepared by co-precipitation method	K.L. Singh, Payal Sharma, A.P. Singh, <b>Ajay Kumar</b> , S. S. Sekhon	J. the Minerals, Metals & Materials Society	2016	—	SBSSTC, Ferozepur	—

Effect of Anionic Surfactant on the Growth of Anodic Nanoporous Aluminum Oxide	Lalit Sharma	ECS Journal of Solid State Science and Technology	2016	1.795	SBSSTC, Ferozepur	—
Study of Parameters of Creep in Thick Walled Composite Pressure Vessel- A Review	D. P Kashyap and Ashish Gupta	Study of Parameters of Creep in Thick Walled Composite Pressure Vessel- A Review	2016	—	SBSSTC Ferozepur	—
Effect of Anodic Surfactant on growth of anodic Nanoporous Aluminium oxide	Harleen, Lalit Sharma, MK Kushwha	ECS journal of solid state science and Technology	2016	—	SBSSTC Ferozepur	—
Modeling of Steady State Creep in Thick Cylinder under Internal Pressure .	Singh, Tejeet, and Singh I.	International J of Mechanical, Aerospace, Industrial, Mechatronics and Manufacturing Engineering	2016	—	SBSSTC Ferozepur	—
Review of Biomass Energy Potential in India, Pp 86-93	Er. Dharam pal Kashyap, Dr. Neel Kanth Grover, Er. Gurnam Singh	International Journal of Engineering & Scientific Research	2016	—	SBSSTC Ferozepur	—
Experimental Investigations into the effects of Grain Size of Powder and Concentrations on Material Removal Rate in PMEDM of Inconel-718. pp 95-101	Er. Gurnam Singh	International Journal of Engineering, Science and Mathematics.	2016	—	SBSSTC Ferozepur	—
Qualitative study of occupational health hazards in dyeing industry-A case	Damanjot Singh, Dr. Paramjeet , Munish	International Journal of Engineering, Technology,	2016	—	SBSSTC Ferozepur	—

study	Kumar	Management & Applied Sciences				
Optimal duty cycling with Sleep-wake Schedule between paired nodes and flexible routing across pairs	Ginish,Mu nish Kumar,Am it Grover	International Journal of Computer Applications	2016	—	SBSSTC Ferozepur	—
3.4.6 h-index of the Institutional Publications during the year. (based on Scopus/ Web of science)						
Title of Paper	Name of the Author	Title of the journal	Year of Publication	h-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication
Trends in Validation of DDoS Research	Sunny Behal, Krishan Kumar	Elsevier Journal of Procedia Computer Science	2016	—	32	SBSSTC Ferozepur
Face Recognition system using Genetic Algorithm	Pratbiha, Sunny Behal, Pritpal Singh	Elsevier Journal of Procedia Computer Science	2016	—	39	SBSSTC Ferozepur
Performance analysis of web services under http attack using genitestbed	Kaur, Ajitpal, Kaur, Daljeet, Kumar, Krishan, Behal, Sunny	International journal of control theory and applications	2016	—	—	SBSSTC Ferozepur
Performance analysis of load balancing algorithms in cloud computing environment	BrarDheer aj Pal Singh, Chawla Amanpreet, Singh Amar And Chawla Isha	International journal of innovative research in computer and communication engineering	2016	—	—	SBSSTC Ferozepur

A novel information divergence metric for detecting ddos attacks	Behal, Sunny, Kumar Krishan	International journal of computer science and information security	2016	—	1	SBSSTC Ferozpur
Performance measurement of web services udp attack using geni testbed	Mehto, Rinkel, Sachdeva, Monika, Behal, Sunny	International journal of innovations in engineering and technology	2016	—	1	SBSSTC Ferozpur
Impact analysis of ddos attacks on video streaming services	Kaur Daljeet, Sachdeva Monika, MehtoRinkel	International journal of emerging technology and advanced engineering	2016	—	—	SBSSTC Ferozpur
Comparative performance analysis of manet routing protocols	Parminder Kaur, Monika Sachdeva, Gagandee p	international journal of advances in cloud computing and computer science (ijacccs)	2016	—	—	SBSSTC Ferozpur
Enhancement of network lifetime using improved mod-leach in wsn	Kaur, Gurpreet And Arora, vishal Kumar	International journal of computer and distributed systems	2016	—	—	SBSSTC Ferozpur
Impact of black hole attack on performance of aadv routing	Parminder Kaur, Monika Sachdeva,	International journal of engineering	2016	—	—	SBSSTC Ferozpur

protocol	Gagandee p	and advanced technology (ijeat)				
Measuring the impact of ddos attacks on web services – a realtime experimentation	Behal, Sunny, Kumar Krishan	International journal of computer science and information security	2016	—	10	SBSSTC Ferozepur
Discrimination of ddos attacks and flash events using pearson's product moment correlation method	Shifali, Sachdeva, Monika, Behal, Sunny	International journal of computer science and information security	2016	—	12	SBSSTC Ferozepur
A brief review on image restoration techniques	Rani, Shilpa; Jindal, Sonika; Kaur, Bhavneet	International journal of computer applications	2016	—	—	SBSSTC Ferozepur
Content based image retrieval using selective region matching with region of interest and svm	Charaya, Sahil; Jindal, Sonika; Kaur, Bhavneet	International journal of computer applications	2016	—	—	SBSSTC Ferozepur
A review on image segmentation using gpu	Kaur, Gurpreet; Jindal, Sonika	International journal of computers & technology	2016	—	—	SBSSTC Ferozepur
Having an eagle eye on geni	Shifali, Sachdeva, Monika, Behal, Sunny	International journal of control theory and application	2016	—	—	SBSSTC Ferozepur

		s				
Analysis of web services under http attack using real time testbed	Kaur, Harjeet, Kumar Krishan, Behal, Sunny	International journal of control theory and applications	2016	—	—	SBSSTC Ferozepur
A survey on LEACH and other's routing protocols in wireless sensor network	Vishal Kumar Arora, Vishal Sharma, Monika Sachdeva	Optik- International Journal for Light and Electron Optics	2016	—	81	SBSSTC Ferozepur
ECG Signal Analysis and Arrhythmia Detection using Wavelet Transform	Kaur I., Rajni, R. Marwaha	Journal of The Institution of Engineers (India):Series B	2016	4	21	SBSSTC Ferozepur
An accurate approach of mathematical modelling of SRR and SR for meta materials	Rajni	Journal of Engineering Science and Technology Review	Dec 2016	4	2	SBSSTC Ferozepur
Magnetic resonance of microstrip line loaded with Split Ring Resonator and Spiral Resonator	Rajni	Indian Journal of Science and Technology	Dec 2016	4	—	SBSSTC Ferozepur
Stepped Impedance Resonator and Spiral resonator based meta material unit-cell	Rajni	Journal of Engineering Science and Technology Review	2016	4	1	SBSSTC Ferozepur
Denial of service	Gulshan	Systems	2016	7	7	SBSSTC,



attacks—an updated perspective	Kumar	Science & Control Engineering 4 (1), 285-294				Ferozpur
Nature Inspired Feature Selection Approach for Effective Intrusion Detection	Gulshan Kumar	Indian Journal of Science and Technology 9 (42)	2016	5	5	SBSSTC, Ferozpur

### 3.4.7 Faculty participation in Seminars/Conferences and Symposia during the year :

No. of Faculty	International level	National Level	Sate Level	Local Level
Presented papers	22	50	—	—
Attended Seminars/Workshops	09	34	01	—
Resource Persons	01	05	—	—

### 3.5.1 Revenue generated from consultancy during the year

Name of the consultant(s) department	Name of the consultancy Project	Consulting/Sponsoring Agency	Revenue generated (in Rs.)
Civil Engineering	Geotechnical Investigations, Material Testing and Structural Design	Various Government, Semi-Government and Private Organizations	Rs. 37,24,253

### 3.5.2 Revenue generated from Corporate Training by the institution during the year

Name of the consultant(s) department	Title of Programme	Agency Seeking Training	Revenue generated (in Rs.)	No. of Trainees
—	—	—	—	—

## 3.6 Extension Activities

3.6.1 Number of extension and outreach programmes conducted in collaboration with industry, community and Non-Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the Activities	Organising unit/ agency/collaborating agency	Number of teachers co-ordinated in such activities	Number of students participate in such activities
Independence day 2016	NCC (Boys and Girls Wing)	02 ANO	40
Mega Blood Donation Camp 2016	SBSSTC FZR	07	03
Candle March rally under “The theme of independence -70”	NSS, RRC, SECA	10	300
Drawing , Painting & Slogan competition	NSS, RRC, Youth Services Department	04	100
Blood donation camp	NSS, RRC, Youth Service Department	04	135
Education survey camp	NSS, ASER	01	100
SWEEP-II Programme	NSS, District Election Office	02	50
Yoga Day	NSS	02	100
Blood Donation Camp	Red Cross Club	02	12
3.6.2 Awards and recognition received for extension activities from Government and other recognized bodies during the year			
Name of The Activity	Award/recognition	Awarding Bodies	No. of Students benefited
Prepared Choreography and song awareness for election presented by students- SVEEP based Basant Mela 2017	Appreciation certificate	District Administration, Ferozepur	05
Ms Navdeep Kaur (Work as Programme Officer NCC Girls Unit, Nodal Officer RRC 2016	Appreciation certificate	Ferozepur district level Honour by Education officer	—
Mr IJS Gill Nodal Officer in Punjab Vidhan Sabha Elections 2017 Constituency Kharar	Appreciation certificate	SDM, Kharar	—
Technical Event	ISCE NIRMAAN 2K17	SBSSTC, Ferozepur	29
Best paper award in National Conference on Energy Economy and Environment , NIT, Calicut	Best Paper Award	NIT, Calicut	—
Reviewing research papers	Reviewer Award	ELSEVIER , Neitherland	—
3.6.3 Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year			

Name of the Scheme	Organising unit/agency/ Collaborating Agency	Name of the activity	Number of teachers co-ordinated such activities	Number of students participated in such Activities
Swachh Bharat abhiyaan rally at CATC Camp 2016	5 PB Girls BN NCC, Moga	Swachh Bharat abhiyaan rally 2016	01 ANO	33
Swachh Bharat Abhiyan	SBSSTC, Ferozpur	Cleanliness of Institute	02	28
SVEEP Basant Mela-2017	Election Officer, Ferozpur.	Basant Mela-2017	04	26

### 3.7 Collaborations

#### 3.7.1 Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of Activity	Participant	Source of Financial Support	Duration
Student Exchange for one semester study	02 students from NHL University, Netherlands	NHL University, Netherlands	01/01/2017 – 15/05/2017
Student Exchange for Joint Minor Project	18 students from NHL University, Netherlands	SBSSTC, Ferozpur	18/05/2017 – 31/05/2017
Faculty Exchange for Joint Minor Project	05 faculty from NHL University, Netherlands	SBSSTC, Ferozpur	18/05/2017 – 31/05/2017

#### 3.7.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the year

Nature of Linkage	Title of Linkage	Name of the partnering institution/ industry/research lab with contact details	Duration (From-to)	Participant
Use of laboratory HFSS software for thesis and project work	M.Tech. thesis guidance	M.Tech Scholar	2016-17	Rupali Puri
Use of laboratory MATLAB software for thesis work	Ph.D. thesis work	Punjabi University, Patiala	2016-17	Aruna Rani

Central Public Works Department	Consultancy	Providing consultancy services to C.P.W.D. for construction of border security fencing in Punjab sector	2016-17	04 Faculty members have participated under this MOU
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3.7.3 MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organization	Date of MoU signed	Purpose and Activites	Number of students/teachers participated under MoUs
Infosys	03/06/2016	Campus Connect Program to impart Industry oriented subjects in the curriculum	Teachers - 08
MoU signed between SBSSTC, Ferozpur and NHL Univ. Of Applied Sciences, Leeuwarden, The Netherlands for a period of three years	18/06/2015	Faculty and student exchange programme	1.) 02 students from NHL Univ. joined one semester course at SBSSTC, Ferozpur (Jan-May, 2017) 2.) 18 students and 05 faculty from NHL Univ. joined a two weeks (18-31 May, 2017) minor project at SBSSTC, Ferozpur with as many students and faculty of SBSSTC, Ferozpur
NHL Univ., Leuwarden, Netherlands	18/06/2015 for three years	Academic Exchange Programme	Students: 38 Teachers: 10

#### CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

##### 4.1 Physical Facilities

##### 4.1.1 Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
Rs. 230.00 lacs	Rs.20.77 Lacs

##### 4.1.2 Details of augmentation in infrastructure facilities during the year

Facilities	Existing	Newly added
Campus area	98.4 Acre	—
Classrooms	77	—
Laboratories	94	—
Seminar Halls	04	01

Classrooms with LCD facilities	18	05
Classrooms with Wi-Fi/ LAN	77	—
Seminar halls with ICT facilities	01	01
Video Centre	01	—
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.	15	30
Value of the equipment purchased during the year (Rs. in Lakhs)	4680558/-	42869367/-
Others	—	—

#### 4.2 Library as a Learning Resource

##### 4.2.1 Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS Software	Nature of automation (fully or partially)	Version	Year of automation
SOUL	Partially	--	2016-17

##### 4.2.1 Library Services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	21064	1785000/-	208	622295/-	21272	2407295/-
Reference Books	2400	--	300	--	2700	--
e-Books	130000	--	--	--	--	--
Journals	53	--	--	--	--	--
e-Journals	275	494722/-	--	--	--	--
Digital Database	02	--	--	--	--	--
CD & Video	410	--	--	--	--	--
Library automation	Yes					
Weeding (Hard & Soft)	--	--	--	--	--	--
Others (specify)	--	--	--	--	--	--

##### 4.2.2 E-content developed by teachers such as: e-PG-Pathshala, CEC (under e-PG-Pathshala CEC

(Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & Institutional (Learning Management System (LMS)) etc

Name of the Teacher	Name of the module	Platform on which module is developed	Date of launching e - content
--	--	--	--

### 4.3 IT Infrastructure

#### 4.3.1 Technology Up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available bandwidth (MGBPS)	Others
Existing	100	04	01	100	1	3	09	34	----
Added	----	----	01	----	----	----	----	121 MBPS(1:2) from BSNL+100 MBPS from NKN	----
Total	100	04	02	100	1	3	09	255	----

#### 4.3.2 Bandwidth available of internet connection in the Institution (Leased line)

155 MBPS (1:2) from BSNL+100 MBPS from NKN

#### 4.3.3 Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
----	----

### 4.4 Maintenance of Campus Infrastructure

4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned budget on academic	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities

facilities			
Rs.260.00 Lacs	Rs.141.99 Lacs	Rs.75.00 Lacs	Rs.32.84 Lacs

4.4.2 Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words)

For maintaining and utilizing physical, academic and support facilities -laboratory, library, sports complex, computers, classrooms etc can be carried out by following committee/Office

- Grievance Committee
- Anti Ragging Committee
- Discipline Committee
- Institutional Development Committee
- Student Affairs/Welfare Committee
- Library Committee
- Anti Sexual Harassment Committee
- Public Relation Department
- Public Information Cell
- Legal Cell
- Estate Office

#### **CRITERION V - STUDENT SUPPORT AND PROGRESSION**

##### **5.1 Student Support**

##### 5.1.1 Scholarships and Financial Support

	Name/Title of the scheme	Number of Student	Amount of Rupee
Financial support from institution	Student Exigency Fund(SEF)	76	19,16,361/-
	Student Aid Fund(SAF)	171	7,62,000/-

Financial support from other sources

a) National	PMSS Scholarship	168	1,14,07750/-
	Bihar Govt. Scholarship	133	78, 42810/-
	J&K Govt. Scholarship	12	8,93550/-
	E-Kalyan Welfare Deptt. Govt. of Jharkhand	17	102000099/-
	UP Govt. Scholarship	60	3600000/-

b) International	----	----	----		
5.1.2 Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,					
Name of the capability enhancement scheme	Date of Implementation	Number of students enrolled	Agencies involved		
International Yoga Day	21/06/2016	35	Bharti Yog Sansthan, Ferozpur		
Human Values and professional ethics	02/01/2017	113	SBSSTC, Ferozpur		
	25/07/2016	51			
	30/07/2016	06			
Soft skills	15/07/2016	73	SBSSTC, Ferozpur		
Soft Skill development	25/01/2017	147	Central agency at institute level		
Professional Skills-I	28/07/2016	119	SBSSTC, Ferozpur		
	05/07/2016	06			
Professional Skills-II	04/01/2017	06	SBSSTC, Ferozpur		
	05/01/2017	119			
5.1.3 Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year					
Year	Name of the scheme	Number of benefited students by Guidance for Competitive examination	Number of benefited students by Career Counselling activities	Number of students who have passed in the competitive exam	Number of students placed
2016	Career counselling	46	72	08	21
5.1.4 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year					
Total grievances received		No. of grievances redressed		Average number of days for grievance redressal	
2		2		4	
<b>5.2 Student Progression</b>					
5.2.1 Details of campus placement during the year					
On campus				Off Campus	



Name of Organizations Visited	Number of Students participated	Number of Students Placed	Number of Students Placed
DSM	56	2	--
Emicon	47	7	--
HP	58	1	--
Indian Army under UES	145	3	--
Infosys	187	4	--
Pompiee Technologies Ltd.	79	50	--
TCS	74	2	-
Elan	15	10	-
Total	661	79	-

#### 5.2.2 Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
2016-2017	01	B.Tech	CSE	Chonbuk National University South Korea	MS + Ph D dual degree
2016-2017	01	B.Tech	ECE	IIT, Patna	M. Tech.
2016-2017	01	B.Tech	ECE	Marist, New York	MS Computer Science
2016-2017	04	B.Tech	EE	AIET	M.Tech
2016-2017	01	B.Tech	EE	LPU	M.Tech
2016-2017	01	B.Tech	EE	GNDEC	M.Tech
2016-2017	01	B.Tech	EE	CANADA University	MS
2016-2017	20	B.Tech.	CE	Abroad	M.Tech.& Graduate Diploma in Abroad
2016-2017	10	B.Tech	ME	Abroad	Master's, MBA, Diploma

					Courses
5.2.3 Students qualifying in state/ national/ international level examinations during the year (eg: NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)					
Items	No. of Students selected/ qualifying		Registration number/roll number for the exam		
GATE	04		-		
GMAT	-		-		
CAT	-		-		
GRE	01		-		
TOFEL	-		-		
Civil Services	01		-		
State Government Services	05		-		
Any Other	-		-		
5.2.4 Sports and cultural activities / competitions organised at the institution level during the year					
Activity	Level		Participants		
ECE Department Society Function Nirmaan 2K16	Institute level		105 (Boys and Girls)		
Department Society Function Nirmaan 2K16	Institute level		126 (Boys and Girls)		
Badminton tournament	Inter college		04 (Boys and Girls)		
Table Tennis	Inter college		04 (Boys and Girls)		
Department Level Cultural Events	Institute level		300 (Boys and Girls)		
Jashan 2K17	Institute level		600 (Boys and Girls)		
District Youth Festival	District Level		200 (Boys and Girls)		
Freshers Welcome Function	Institute level		300 (Boys and Girls)		
Virsa 2k17	Institute level		200 (Boys and Girls)		
Fare Well Function	Institute level		150 (Boys and Girls)		

Annual Athletic Meet /Inter Year College Tournament 1) Cricket 2) Football 3) Table Tennis 4) Basket Boll 5) Volley Boll 6) Chess 7) Lawn Tennis 8) Hockey	Institute level	360 (Boys and Girls)
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### 5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/ medal	National/ Internatio nal	Sports	Cultural	Student ID Number	Name of the student
2016-17	3 <sup>rd</sup> Position	State	-	Bhangra Team	B.Tech Mechanical	Harshdeep Singh & Group.
2016-17	Silver Medal	University level	Basket Ball	-	160390114 B.Tech ECE	Jayshree Sarkar
2016-17	Silver Medal	University Level	Basket Ball	-	160390109 B.Tech ECE	Sakshi Singh
2016-17	Gold Medal	University Level	Lawn Tennis	-	160390114 B.Tech ECE	Jay Shree Sarkar
2016-17	Gold Medal	University Level	Lawn Tennis	-	160390109 B.Tech ECE	Sakshi Singh
2016-17	Silver Medal	University Level	Lawn Tennis	-	1322489 B.Tech ECE	Rahul DHawan
2016-17	Silver Medal	University Level	Lawn Tennis	-	1322492 B.Tech ECE	Ravi Kumar Ravi
2016-17	God Medal	University Level	Badminton	-	1322492 B.Tech ECE	Ravi Kumar Ravi
2016-17	Bronze Medal	University Level	Chess	-	15110734 B.Tech ECE	Rajan Kumar
2016-17	Gold Medal	University level	4*100 relay race	-	1421583 B.Tech CSE	Rohit Kumar
2016-17	Bronze Medal	University level	4*100 relay race	-	1421583 B.Tech CSE	Rohit Kumar
2016-17	Bronze Medal	University level	Cricket	-	1322295 B.Tech CSE	Anant Sikar
2016-17	Gold Medal	University Level	Table Tennis	-	1322295 B.Tech CSE	Anant Sikar
2016-17	Silver Medal	University Level	Basket Ball	-	2015 to 2019 batch	Needhi Kaur

					B.Tech CSE	
2016-17	Gold Medal	University level	100 m race	-	15110953 B.Tech ME	Sudhir Kumar Singh
2016-17	Silver Medal	University level	200 m	-	15110953 B.Tech ME	Sudhir Kumar Singh
2016-17	Bronze Medal	University level	4*100 m race	-	15110953 B.Tech ME	Sudhir Kumar Singh
2016-17	Silver Medal	University Level	Basket Ball	-	1514213 B.Tech CHE	Bharti Rani
2016-17	Silver Medal	University Level	Basket Ball	-	1514286 B.Tech ECE	Simranjeet Kaur
2016-17	Silver Medal	University Level	Basket Ball	-	1514285 B.Tech ECE	Reena Rani
2016-17	Silver Medal	University Level	Basket Ball	-	160280617 B.Tech CSE	Anshika Singh
2016-17	Silver Medal	University Level	Basket Ball	-	1514212 B.Tech CHE	Anita

5.3.2 Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Students are a part of anti-ragging committee for the prevention of ragging in the campus. Students Grievance redressal committee is also functioning properly in the campus for addressing and effectively resolving grievances of students and in this committee also, one of the member is from student committee. Every year College annual athlete meet is held in the month of February / March for B.Tech, Diploma, BCA, MBA Students including Events namely : 100m, 200m, 400m, 800m, 1500m, 5000m, race, Long jump, High jump, Discuss through, Javelin through, Shot put and tug of war etc..

#### 5.4 Alumni Engagement

5.4.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words):

Yes, Alumni Association named "SBSCETians" was registered under Society Act 1860 in the year 2009.

- The college holds Alumni Meet of the passed out students annually.
- Department-wise Online Alumni Surveys are conducted for the passed out batches.
- A number of Groups on the **Social Websites like Facebook [SBSSTC alumni page]** etc. are used to disseminate the information to the Alumni.
- Alumni Registration is done through one online form published on college website **www.sbsstc.ac.in and one LinkedIn account**

5.4.2 No. of registered Alumni: 257 till date on web portal

700 on LinkedIn

5.4.3 Alumni contribution during the year (in Rupees): ---

**5.4.4 Meetings/activities organized by Alumni Association:**

Sr. No	Name of Alumni	Branch	Batch	Topic	Date
1.	Ms. Disha Kohli	CSE	2004-2008	How to prepare yourself for the IT Industry	06/03/2019
2.	Mr. Chandan Prashar	CSE	2002-2006	Entrepreneurship Skills and Recent Trends in IT	20/03/2019
3.	Mr. Sudeep Saxena	CSE	2011-2015	Opportunities in IT	19/8/2019

<b>CRITERION VI –GOVERNANCE, LEADERSHIP AND MANAGEMENT</b>
<b>6.1 Institutional Vision and Leadership</b>
6.1.1 Mention two practices of decentralization and participative management during the last year (maximum 500 words)
The college believes in decentralized governance and Participative management. Teaching and nonteaching staff members share the administrative responsibility of the college and contribute in smooth working of administrative machinery. 1) All of the class rooms are under CCTV. 2) Associate Director monitor the engagement of classes through CCTV.
6.1.2 Does the institution have a Management Information System (MIS)? Yes/No/Partial:
<b>Partial</b>
<b>6.2 Strategy Development and Deployment</b>
6.2.1 Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):
<b>Curriculum Development</b>
<ul style="list-style-type: none"> <li>• Board of studies have been constituted for each individual department.</li> <li>• Eminent academicians from premier institutes and representatives from industry constituting the BOS record their valuable inputs for guiding the curriculum development process.</li> <li>• The syllabi of each department have been updated to meet the requirements of the industry and under consultation with the stakeholders.</li> <li>• A host of department and open electives have been introduced in the curriculum for quality sustenance and enhanced and effective development of the students.</li> </ul>
<b>Teaching and Learning</b>
<ul style="list-style-type: none"> <li>• The institute has started organizing an orientation programmes for the fresher’s in the institution and department level.</li> <li>• Provisions of Mentoring, tutoring, counseling and remedial classes have been introduced to address the problems of slow learners.</li> <li>• Alumni and employer’s feedback have been incorporated to evaluate the teaching learning process both at department and institutional level and suggest measures for improvement.</li> <li>• Modernization of labs has been done to accommodate the latest trends in technical education.</li> <li>• The faculty members are guided to use presentations and videos for better learning experience of students.</li> </ul>
<b>Examination and Evaluation</b>
<ul style="list-style-type: none"> <li>• Amendments in the pattern of conduct of examination, grading after the approval of the Academic Council, is informed to all stake holders by the Dean (Academics) through the respective HODs. <ul style="list-style-type: none"> <li>a. About 20% question papers for regular examinations are set by experts from outside the institute for maintaining academic standards.</li> <li>b. Students check their evaluated answer books and can approach designated authorities for getting their complaint redressed.</li> <li>c. Table marking of the end semester examination answer sheets</li> </ul> </li> <li>• From the session May 2016, the answer sheets have been evaluated with the identification of the</li> </ul>

student concealed for fair evaluation.

### **Research and Development :**

In its efforts to train, motivate and reward faculty, the institution encourages members to attend courses/conferences/workshops/seminars/training programmes, etc, by providing a research grant of Rs. 50,000/- per year for each faculty member for such activities.

Research oriented books, journals and e-journals has been available in the Central and deptmenatl libraries. The regular faculty members of the institute have been provided with the laptop and PC in their office for enhancement of research related activities.

Each department has its own computer laboratory equipped with software for the research purpose apart from other laboratories.

### **Library, ICT and Physical Infrastructure / Instrumentation:**

- The Central library is a multimedia Enabled Digital Library with large number of e-books, e-journals and other online course material equipped with 10 computers, two laser printers and soul software.
- The Central library has ICT and Physical Infrastructure / Instrumentation, Barcode / RF Enabled Circulation and Surveillance in its premises.
- Institute has ICT Enabled classrooms
- The Computer centre has a number of working environments & Packages; Windows, Matlab, Statistica, Mathematica etc.
- Campus wide networking through Optical Fibre Backbone Reading Rooms in Central Library and various hostels.

### **Human Resource Management**

- Separate Establishment Branch for maintaining record, performance appraisal etc of available human resource Grievance redressal mechanism in place for faculty, staff, students.
- Transportation facility for faculty staffs and students.
- Reimbursement of TA/DA for official travel, attending conference, seminar, or any special training.
- On campus health centre with ambulance.

### **Industry Interaction / Collaboration :**

- This Cell facilitates closer interaction between the academic and Industrial fields and also provides closer links with industries.
- The Cell involves Guest Lectures, Interactive Workshops, Conferences, Seminars, Brain Storming Sessions and Technical Discussions etc. with members of the Industry, outside experts, eminent personalities at regular interval are organised at regular intervals.
- Institute has signed Memorandum of Understanding (MoU) with following industries for the purpose of enriching the technical education process:
  - Infosys Ltd
  - Metro Tyres Ltd., Ludhiana
  - CETPA Infotech Pvt Ltd., Noida
  - P.P. Industries Pvt Ltd., Bathinda
  - Itenic Technology Pvt Ltd., Noida

### **Admission of Students**

- The Institute follows a highly transparent admission process strictly adhering to the rules and regulations of the affiliated University IKGPTU, Kapurthala and Punjab Statethrough Centralized

<p>counselling conducted by the University.</p> <ul style="list-style-type: none"> <li>• The vacant seats are then advertised and filled purely on merit basis.</li> <li>• Candidates are required to fill the online Registration form. Each application is processed and verified for their admission.</li> </ul>				
6.2.2 Implementation of e-governance in areas of operations:				
<ul style="list-style-type: none"> <li>• Planning and Development:-Student data management, Timetable, attendance modules are working.</li> <li>• Administration:-Employee data management, Biometric attendance, Leave Management, and Payroll Modules are working</li> <li>• Finance and Accounts:-Fee Management, Receipt and Payments modules are working.</li> <li>• Student Admission and Support:-Student admission is through centralized Online counselling conducted by the affiliating University</li> <li>• Examination:-Examination department is completely computerized. Results are displayed Online individually in the Login of student. Exam form filling, Conduct of exam, Declaration of Result modules are working.</li> </ul>				
<b>6.3 Faculty Empowerment Strategies</b>				
6.3.1 Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year				
Year	Name of teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2016-17	Dr. Sanjeev Dewra	National Conference on Communication, Computing and Electrical Systems	TEQIP/SBSSTC-Ferozepur	1,50000/-
2016-17	Er. Bohr Singh, Er. Dapinder Deep Singh	2nd International Conference on “Engineering & Technology, Computer, Basic & Applied Sciences (ECBA-2016), Collective Campus, Melbourne, Australia.	---	Rs.75,000/- to Each faculty
2016-17	Dr. Amit Arora	National Conference on Energy, Economy and Environment Energy 2016 on Dec 16 <sup>th</sup> -17 <sup>th</sup> , 2016	---	Rs. 22,600/-
2016-17	Dr. Rajiv Arora	National Conference on Energy, Economy and Environment Energy 2016 on Dec 16 <sup>th</sup> -17 <sup>th</sup> , 2016	---	Rs. 22,600/-



2016-17	Dr. Lalit Sharma	CARBO-XXXI an International Conference on Recent Trends in Carbohydrate Chemistry and Biology from Nov. 14-16, 2016 at University of Delhi, Delhi.	---	Rs.13000/-
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6.3.2 Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	Dates (from-to)	No. of participants (Teaching staff)	No. of participants (Non-teaching staff)
2016-17	National Conference on Communication, Computing and Electrical Systems	-----	21-22 November. 2016	80 Approx.	-----

6.3.3 No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	Date and Duration (from – to)
AICTE Sponsored Short Term Course/Faculty Development Programme on Interventions for Effective Industry-Institute Partnership through ICT Organized at C. T. Institute of Management & Information Technology, Maqsudan, Jalandhar	01	24/04/2017 to 28 /04/2017
One week AICTE sponsored STC on Communication Skills through ICT at NITTTR Chandigarh	01	05/12/2016 to 09/12/2016
Image Processing and Machine learning for pattern recognition organized at UIET, Chandigarh	01	11/07/2016 to 16/07/2016
One day “Awareness Workshop on Outcome Based Education and Accreditation”	01	21/01/2017
Classroom Teaching and Soft skill Development organized at NITTTR Chandigarh	01	22/05/2017 to 26/05/2017
Emotional Intelligence, NITTTR Chandigarh	01	11/07/2016 to 15/07/2016
MATLAB and its Hardware Interface, NITTTR Chandigarh	01	28/11/2016 to 02/12/2016

Nanotechnology Developments and Applications, NITTTR Chandigarh	01	22/05/2017 to 26/05/2017	
DC smart grid	01	10/11/2016 to 14/11/2016	
Mechatronics	01	21/11/2016 to 25/11/2016	
Wide area power system monitoring, protection & control	01	12/12/2016 to 16/12/2016	
AUTO CAD	01	20/02/2017 to 24/02/2017	
Carrier Guidance & Counseling	01	24-04-2017 to 28-04-2017	
Potential Research and Development Areas in Science and Technology	01	15/05/17 to 19/05/17	
CE AICTE Sponsored Short Term Course on “Career Guidance & Counselling including career skills”	03	24/04/2017 to 28/04/2017	
<b>6.3.4 Faculty and Staff recruitment (no. for permanent recruitment):</b>			
Teaching		Non-teaching	
Permanent	Fulltime	Permanent	Fulltime
75	75	83	83
<b>6.3.5 Welfare schemes for</b>			
Teaching		2	
Non teaching		2	
Students		6	
<b>6.4 Financial Management and Resource Mobilization</b>			
6.4.1 Institution conducts internal and external financial audits regularly (with in 100 words each)			
The institute external financial audit is done by Punjab Government Accountant General office and internal audit is done by internal Audit Committee			
6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)			
Name of the non government funding agencies/ individuals	Funds/ Grants received in Rs.	Purpose	
—	—	—	
6.4.3 Total corpus fund generated : 35 crore			

## 6.5 Internal Quality Assurance System

### 6.5.1 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	PTU, Jalandhar	Yes	IQAC
Administrative	Yes	Punjab Govt./External CA	Yes	Internal Various Committee

### 6.5.2 Activities and support from the Parent – Teacher Association (at least three)

The PTA also aims at enhancing the interaction among the various stakeholders. Providing valuable suggestion for development of the institution Pointing out the weaknesses of the college & related Departments and suggesting rectification. Communicating views which the students feel shy to communicate directly to the teachers about the college and the department.

### 6.5.3 Development programmes for support staff (at least three)

- 1.Computer Training
- 2.Yoga training & stress management
- 3.Soft skill training

### 6.5.4 Post Accreditation initiative(s) (mention at least three)

1. Various batches of alumni have been contacted for strengthening the alumni contribution.
2. Up gradation of present syllabus to suit the need of employability through board of studies is sought for.
3. Planning is underway to adopt nearby villages to enhance water conservation, social upliftment etc.

### 6.5.5

- |  |             |     |
|--|-------------|-----|
| a. Submission of Data for AISHE portal | : (Yes /No) | Yes |
| b. Participation in NIRF               | : (Yes /No) | Yes |
| c. ISO Certification                   | : (Yes /No) | No  |
| d. NBA or any other quality audit      | : (Yes /No) | Yes |

6.5.6 Number of Quality Initiatives undertaken during the year				
Year	Name of quality initiative by IQAC	Date of conducting activity	Duration (from-----to-----)	Number of participants
2016-17	Education quality improvement through teaching of courses using ppts	09/08/2016 (2 <sup>nd</sup> IQAC)	09/08/2016	2200
2016-17	HODs of all the departments to ensure the quality of the end semester question papers.	23/06/2017 (3 <sup>rd</sup> IQAC)	23/06/2017	2075
2016-17	Minor projects will be done in each Lab	23/06/2017 (3 <sup>rd</sup> IQAC)	23/06/2017	550

## CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 - Institutional Values and Social Responsibilities

7.1.1 Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period ( <b>from-to</b> )	Participants	
		Female	Male
Celebration of International Women's Day	08/03/2017	43	48

7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:  
Percentage of power requirement of the College met by the renewable energy sources

-----

7.1.3 Differently abled (Divyangjan) friendliness

Items Facilities	Yes/No	No. of Beneficiaries
Physical facilities	Yes	All Differently-abled students.
Provision for lift	Yes	All Differently-abled students.
Ramp/ Rails	Yes	All Differently-abled students.
Braille Software/facilities	No	---
Rest Rooms	Yes	All Differently-abled students.
Scribes for examination	Yes	All Differently-abled students.
Special skill development for differently abled students	Yes	All Differently-abled students.
Any other similar facility	Yes	All Differently-abled students.

7.1.4 Inclusion and Situations

Enlist most important initiatives taken to address locational advantages and disadvantages during the year						
Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date and duration of the initiative	Name of the initiative	Issues addressed	Number of participating students and staff
2016-17	04	04	14/12/2016	Voter awareness under SVEEP	Voter awareness	53
2016-17	04	04	30/09/2016	Blood Donation Camp	Voluntary Blood Donation	135
2016-17	04	04	15/12/2016	Declamation	Declamation on fair voting	53
2016-17	04	04	28/03/2017	Blood Donation	Voluntary Blood Donation	60
7.1.5 Human Values and Professional Ethics						
Code of conduct (handbooks) for various stakeholders						
Title	Date of Publication		Follow up (maximum 100 words each)			
Human Values and Professional Ethics HVPE 101A	01/07/2011		A Foundation Course in Human Values and Professional Ethics by R.R.Gaur, R.Sangal and G.P. Bagaria.			

7.1.6 Activities conducted for promotion of universal Values and Ethics		
Activity	Duration (from-----to-----)	Number of participants
Drawing, Painting and Slogan Writing Competition on Blood Donation and Drug De-addiction	23/08/2016 to 23/08/2016	100
Candle March Rally under the theme of Independence 70	14/08/2016 to 14/08/2016	320
Seminar on Blood Donation	28/03/2017 to 28/03/2016	78
7.1.7 Initiatives taken by the institution to make the campus eco-friendly (at least five)		
<ol style="list-style-type: none"> <li>1. Tree Plantation on Regular Basis.</li> <li>2. Swatch Bharat Abhiyan is going on .</li> <li>3. Painting Competition on environment conservation on regular basis.</li> <li>4. Seminar on Environmental Conservation on regular Basis.</li> <li>5. Swachhata Pakhwada to clean campus for 15 days is going on regular basis.</li> <li>6. Green Campus Award on 23.8.2016 from the department of Forest and Wild Animal Conservation from the Govt. of Punjab.</li> </ol>		
7.2 Best Practices		
<p>Describe at least two institutional best practices Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link</p> <ol style="list-style-type: none"> <li>1. The institute is using computerized modules for managing activities related to Academics, Finance And Accounts and Grievances of student. <a href="https://forms.eduqfix.com/sbstconlineform/add">https://forms.eduqfix.com/sbstconlineform/add</a> <a href="https://sbsstc.edugrievance.com/">https://sbsstc.edugrievance.com/</a></li> <li>2. The institute has automated EXAM AND GRADING module for Exam form filling conduct of exam and Declaration of Result. <a href="http://10.11.11.11">http://10.11.11.11</a> (MySBSEexam intranet website)</li> <li>3. Institute has fully computerized Library through Koha Library Module.</li> </ol>		
7.3 Institutional Distinctiveness		
<p>Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust Provide the weblink of the institution in not more than 500 words</p> <ul style="list-style-type: none"> <li>• Education Quality Improvement through Propagation of Outcome Based Education (OBE) as advocated by NBA.</li> <li>• Biometric attendance of staff and faculty.</li> </ul>		

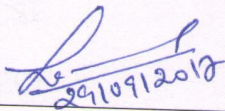
Weblink :- <http://10.11.11.11> (MySBSEExam intranet website)

**8. Future Plans of action for next academic year (500 words)**

The following are the future plans for the forthcoming Academic year 2017-18:

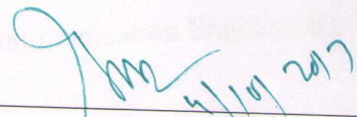
- Feasibility review of existing courses and start of new courses.
- To encourage the faculty for obtaining funding projects.
- To take feedback from stakeholders and bring changes in the curriculum.
- Up-gradation of Departmental Libraries and Strengthening of Central Library
- Education Quality Improvement through teaching of courses (Theory and Practical) using ICT based ppt slides.
- To increase students' percentage of attendance.
- To undertake initiatives towards faculty development program.
- To boost IQAC's role in promoting research culture in the college.
- To maintain and increase infrastructure facilities.
- To materialize technology up gradation.

Name Dr. Lalit Sharma

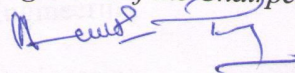
  
29/10/2017

Signature of the Coordinator, IQAC

Name Dr. T.S. Sichelu

  
4/11/2017

Signature of the Chairperson, IQAC



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**Abbreviations:**

IQAC	-	Internal Quality Assurance Cell
SBSSTC	-	Shaheed Bhagat Singh State Technical Campus
CBCS	-	Choice Based Credit System
OBE	-	Outcome Based Education
NBA	-	National Board of Accreditation
ERP	-	Enterprise Resource planning
UG	-	Under Graduate
PG	-	Post Graduate
B.Tech	-	Bachelor of Technology
M.Tech	-	Master of Technology
B.Arch	-	Bachelor of Architecture
CSE	-	Computer Science and Engineering
ECE	-	Electronics and Communication Engineering
CE	-	Civil Engineering
EE	-	Electrical Engineering
CHE	-	Chemical Engineering
ME	-	Mechanical Engineering
CA	-	Computer Application
MBA	-	Master of Business Administration
MCA	-	Master of Computer Application
PGDCA	-	Post Graduate Diploma in Computer Application
B.Sc (IT)	-	Bachelor of Science in Information Technology
MHRD	-	Ministry Human Resource Development
TEQIP	-	Technical Education Quality Improvement Programme

ANOs	- Associate NCC officer
MoU	- Memorandum of Understanding
GATE	- Graduate Aptitude Test
CCTV	- Closed-circuit television
FDP	- Faculty Development Programme
ISTE	- Indian Society of Technical Education
EFG	- Eco -Friendly Group
RRC	- Red Ribbon Club
NSQF	- National Skills Qualification Framework
SVEEP	- Systematic Voter's Education and Electoral Participation
NHL	- Noordelijke Hogeschool Leeuwarden

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