Annual Quality Assurance Report (AQAR)

(For Autonomous Colleges)

2018-2019

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

<div align="center">**The Annual Quality Assurance Report (AQAR) of the IQAC**
(For Autonomous Colleges)</div>

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 1st June 2018- 31st May 2019

<div align="center">**Part – A**</div>

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   State Funded
  (please specify)
- 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: http://sbsstc.ac.in/policyIQAC.php
    Web-link of the AQAR: (Previous Academic Year):

 4. Whether Academic Calendar prepared during the year? Yes

if yes, whether it is uploaded in the Institutional website: Yes

Weblink: https://www.sbsstc.ac.in/PDFs/July-Dec%202018.pdf

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1st	B	2.75	2015	from: 25 –06-2015 to: 31-12-2020

6. Date of Establishment of IQAC: 28-08-2015 in 3rd 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
Teachers should be allowed to set the question papers who have taught that subject at least two times.	09/01/2019 (7th IQAC)	115
HOD should not allocate the subject to the teacher who have taught that subject for the last five year.	09/01/2019 (7th IQAC)	115

> *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.	2012-2017 (5 year)	10.0 Crore

9**.** Whether composition of IQAC as per latest NAAC guidelines: 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   https://www.sbsstc.ac.in/policyIQAC.php

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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.
   - Setting of the End semester question paper by the examiner who have taught the subject at least two times
   - To increase the knowledge and creativity of the students the subjects taught be changed after teaching the subject for maximum of five times.
   - Conduct of three MSTs for all the batches.

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
Responsibility of the teacher regarding the result of the students taught	Approved in IQAC

14. Whether the AQAR was placed before statutory body?   Yes

   Name of the Statutory body : Academic Council   Date of meeting(s): 18-12-2018

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

      Year: 2019   Date of Submission: 13-02-2019

17. Does the Institution have Management Information System? 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	12/06/2018
UG	ECE	17/07/2018
UG	EE	06/08/2018
PG	MCA	26/09/2018
UG	BCA	26/09/2018
UG	CHE	12/06/2018
UG	ME	26/09/2018

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 ECE	20/02/2019	Workshop on Machine Learning and Python Programming	20/02/2019
B.Tech EE	10/08/2018	Mentoring & professional development BMPD101B	10/08/2018
B.Tech CE	04/06/2018	Mentoring & professional development(BMPD101B)	04/06/2018
B.Tech CE	14/01/2019	Mentoring & professional development(BMPD201B	14/01/2019
B.Tech CE	04/06/2018	Fluid Mechanics Lab (BTCE-305A) Strength of Material Lab (BTCE-306A) Survey Lab (BTCE 307A) Training –I (BTCE-308A) Professional Skills –I (BTHU-301A)	04/06/2019
B.Tech CE	14/01/2019	Structural Analysis Lab (BTCE-405A) Professional Skills Lab(BTCE-401A)	14/01/2019
B.Tech CE	04/06/2018	Concrete Technology Lab (BTCE 505A) Transportation Engineering Lab (BTCE-506A) Training-II (BTCE507A) Professional Skills-III (BTHU-501A)	04/06/2018
B.Tech CE		Computer Aided Structural Drawing II	

	14/01/2019	(BTCE605A) Geotechnical Engineering Lab (BTCE606A) Professional Skills-IV (BTHU601A	14/01/2019
B.Tech CE	04/06/2018	Software Lab (BTCE705A) Environmental Lab (BTCE706A) Training –III (BTCE707A) Project-I (BTCE708A)	04/06/2018
B.Tech CE	14/01/2019	Project (BTCE804A)	14/01/2019
Carpenter Wooden Furniture under PMKVY 2	13/08/2018	FFS/Q0102	13/08/2018

1.2 Academic Flexibility

1.2.1 New programmes/courses introduced during the Academic year

Programme/Course	Date of introduction
Mentoring and Professional development BMPD101B	08/06/ 2018
Operations Management	04/06/2018
Non-Conventional Energy Resources	14/01/2019

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	05	15/06/2015	08	06
PGDCA	---	01	12/12/2018	---	01

1.3 Curriculum Enrichment

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
Consumer Electronics	17/07/2018	11
Mentoring & Professional Development	14/01/2019	93
Professional Skills (BTHU-101A) - (BTHU-601A)	15/07/2018	28

Mentoring and Profession Development	15/07/2018	154
NSS	01/06/2018	200

1.3.2 Field Projects / Internships under taken during the year

Project/Programme Title	No. of students enrolled for Field Projects / Internships
Industrial Training	444
Survey Camp	59
Industrial visit	37
Major Project	09

1.4 Feedback System

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)

Feedback obtained from the students is examined and utilized for their further educational improvement. 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.

The feedback from the students is obtained to evaluate teaching-learning process. The feedback is analyzed by the Head of department. The teachers are apprised of the same and are advised to make the appropriate changes in their teaching method if required. Further, the overall academic, administrative, professional development and research contributions of every teacher are analyzed by the Head of 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.

The feedback collected from the students is anonymous. The data is analyzed by the Head of Department concerned and in case of any major finding from the feedback, the faculty members are provided necessary inputs for further improvement and corrective course of action. Hence, the faculty gets to know their weak areas and build upon these to provide a better teaching-learning experience.

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	103	103
M-Tech CSE	18	___	___
B.Tech ECE	63	16	16
M-Tech ECE	18	___	___

B.Tech EE	63	22	17
M-Tech PS	18	___	___
B.Tech CE	126	19	19
MCA	63	10	10
PGDCA	60	15	13
BCA	60	80	58
B. Tech. CHE	32	08	05
B.Arch.	20	12	10
B.Tech ME	126	19	19
M-Tech ME	18	___	___
B.Sc. Agriculture	30	40	30

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
2018-19	1412	20	100	06	09

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 (LMS, e-Resources)	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used
115	113	LCD Projectors, Internet, Laptop, NPTEL Video Lectures	38	38	PPTs, NPTEL Video Lectures, E-Library, E-Books Software's, online data bases, e-reference books, e-thesis, Swayam, Lectures through PPT, Using ICT enabled classroom for teaching, Using online LMS

				Platforms Google classroom, Zoom, Google meet

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

At the beginning of the academic session, the college organises an orientation programme for students of before starting degree course (First Semester) and explain the course structure , syllabus and evaluation process in detail. Students of the college mainly come from low –middle income and low income families and in many cases they are first generation learners and therefore face many challenges in their academic endeavours as well as in social interactions. Teachers of the colleges take special initiative too address any issue faced by the students. All necessary information related to the student such as the contact number, email of the student, category, gender etc are initially collected by the department. Departments also maintain the records of class tests/surprise tests, attendance records, records of student seminars etc related to the reviewing of the performance of the students.

Mentors meet their students and guide them with their studies. 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. The mentoring of all departments ensures that the students adapt to the dynamic learning environment and lead their ways into highly successful careers.

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.

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
1432	115	01 :12

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. off faculty with Ph.D
161	115	46	31	20

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
2018-19	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)
2018-19	Dr. Sanjeev Dewra (National Level)	Associate Professor	Editorial Board Member of different Journals like RTECS,IJCRCE,JTSSN
2018-19	Dr. Sanjeev Dewra (National Level)	Associate Professor	Editorial Board Member of Enriched Publications' Pvt. Ltd. From 12/08/2016.
2018-19	Dr. Sanjeev Dewra International Level.	Associate Professor	Editorial Board Member of American Journal of Optics & Photonics from 22/02/2018.
2018-19	Dr. Vikram Mutneja (State)	Associate Professor	Received Certificate of Appreciation for organizing of state level "Inspire Awards-2019" as Co-coordinator, held at institute on 6th February, 2019 Sponsored by District Administration.
2018-19	Dr. VikramMutneja (State)	Associate Professor	Received Certificate of Appreciation for organizing 4th State Level Mega Job Fair as Co-coordinator, held at institute, under Punjab Government initiative of " Ghar Ghar Rozgar" mission, during 13-22 February, 2019.
2018-19	Inderjeet Singh Gill (State)	Associate Professor	Received Certificate of Appreciation for organizing of state level "Inspire Awards-2019" as Co-coordinator, held at institute on 6th February, 2019 Sponsored by District Administration.
2018-19	Inderjeet Singh Gill (State)	Associate Professor	Got letter of appreciation from Director, SBSSTC, Ferozepur for organizing 3rd State Level Mega Job fair from 12-22 November, 2018 and 4th State Level Mega Job fair from 13-22 February, 2019 under Punjab Government initiative of " Ghar Ghar Rozgar" mission.
2018-19	Inderjeet Singh Gill (Institute)	Associate Professor	Got Letter of appreciation from Director SBSSTC, Ferozepur for getting admissions

			for the academic year 2018-19.
2018-19	Amit Grover (International)	Assistant Professor	Editorial Board Member of different Journals like IJRET, IJSER
2018-19	Amit Grover (Institute)	Assistant Professor	Got Letter of appreciation from Director SBSSTC, Ferozepur for doing work for the betterment of the Institute (getting admissions for the academic year 2018-19.)
2018-19	Ms Anupam Mittal	Assistant Professor	Appreciation letter received from Co-coordinating for organizing AICTE based FDP of 1 week (8-7-19 to 13-7-19)
2018-19	Ms Anupam Mittal	Assistant Professor	Appreciation letter received from Director for organizing National conference on Communication, Computing and Control System (NCCCES-18) on Dec 2018 at SBSSTC, Ferozepur (as Editorial Board Member and Coordinator)
2018-19	Dr. Amit Arora	Associate Professor	Certificate of Appreciation as invited speaker in International Conference on Advanced Materials, Energy & Environmental Sustainability (ICAMEES -2018), University of Petroleum and Energy Studies (UPES), Dehradun, India-14th – 15th December- 2018.

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 - 2018	1st Semester	19.12.2018	29.01.2019
			3rd Semester	10.12.2018	06.02.2019
			5th Semester	11.12.2018	01.02.2019
			7th Semester	08.12.2019	06.02.2019
		May/June - 2019	2nd Semester	17.05.2019	18.06.2019
			4th Semester	14.05.2019	08.07.2019
			6th Semester	15.05.2019	12.07.2019

			8th Semester	10.05.2019	14.06.2019
B. Tech.	EE	Nov/Dec - 2018	1st Semester	19.12.2018	29.01.2019
			3rd Semester	10.12.2018	08.02.2019
			5th Semester	11.12.2018	25.02.2019
			7th Semester	08.12.2019	31.01.2019
		May/June - 2019	2nd Semester	17.05.2019	18.06.2019
			4th Semester	14.05.2019	08.07.2019
			6th Semester	15.05.2019	15.07.2019
			8th Semester	10.05.2019	11.06.2019
B. Tech.	CE	Nov/Dec - 2018	1st Semester	19.12.2018	29.01.2019
			3rd Semester	10.12.2018	01.02.2019
			5th Semester	11.12.2018	01.02.2019
			7th Semester	08.12.2019	31.01.2019
		May/June - 2019	2nd Semester	17.05.2019	18.06.2019
			4th Semester	14.05.2019	08.07.2019
			6th Semester	15.05.2019	15.07.2019
			8th Semester	10.05.2019	24.07.2019

				1st Semester	19.12.2018	29.01.2019
B. Tech.	ECE	Nov/Dec - 2018		3rd Semester	10.12.2018	01.02.2019
				5th Semester	11.12.2018	01.02.2019
				7th Semester	08.12.2019	31.01.2019
		May/June - 2019		2nd Semester	17.05.2019	18.06.2019
				4th Semester	14.05.2019	08.07.2019
				6th Semester	15.05.2019	15.07.2019
				8th Semester	10.05.2019	13.06.2019
B. Tech.	CHE	Nov/Dec - 2018		1st Semester	19.12.2018	29.01.2019
				3rd Semester	10.12.2018	01.02.2019
				5th Semester	11.12.2018	01.02.2019
				7th Semester	11.12.2018	31.01.2019
		May/June - 2019		2nd Semester	17.05.2019	18.06.2019
				4th Semester	14.05.2019	08.07.2019
				6th Semester	15.05.2019	15.07.2019
				8th Semester	10.05.2019	13.06.2019
				1st Semester	19.12.2018	29.01.2019

			3rd Semester	10.12.2018	01.02.2019
B. Tech.	CSE	Nov/Dec - 2018	5th Semester	11.12.2018	01.02.2019
			7th Semester	08.12.2019	31.01.2019
		May/June - 2019	2nd Semester	17.05.2019	18.06.2019
			4th Semester	14.05.2019	08.07.2019
			6th Semester	15.05.2019	15.07.2019
			8th Semester	10.05.2019	10.06.2019
BCA	BCA	Nov/Dec - 2018	1st Semester	24.12.2018	14.03.2019
			3rd Semester	10.12.2018	01.02.2019
			5th Semester	11.12.2018	01.02.2019
		May/Jun - 2019	2nd Semester	15.05.2019	04.07.2019
			4th Semester	16.05.2019	08.07.2019
			6th Semester	15.05.2019	04.07.2019
MCA	MCA	Nov/Dec - 2018	3rd Semester	10.12.2018	01.02.2019
			5th Semester	11.12.2018	01.02.2019
		May/Jun - 2019	4th Semester	13.05.2019	08.07.2019
			6th Semester	08.05.2019	14.06.2019

		Nov/Dec - 2018	1st Semester	10.12.2018	14.03.2019
PGDCA	PGDCA	May/Jun - 2019	2nd Semester	09.05.2019	04.07.2019
B. Arch	B. Arch	Nov/Dec - 2018	1st Semester	17.12.2018	29.01.2019
			3rd Semester	19.12.2018	31.01.2019
			5th Semester	17.12.2018	01.02.2019
			7th Semester	15.07.2018	18.02.2019
		May/Jun - 2019	2nd Semester	15.05.2019	04.07.2019
			4th Semester	17.05.2019	08.07.2019
			6th Semester	27.05.2019	18.07.2019
			8th Semester	14.05.2019	25.07.2019
B.Sc(Agri)	B.Sc(Agri)	Nov/Dec - 2018	1st Semester	19.12.2018	29.01.2019
		May/Jun - 2019	2nd Semester	17.05.2019	04.07.2019

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
19	1432	1.3

2.6 Student Performance and Learning Outcomes

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

CSE	https://www.sbsstc.ac.in/dptCSengg.php?dept=%27CSE%27
ECE	https://www.sbsstc.ac.in/dptECengg.php
EE	https://www.sbsstc.ac.in/dptEEengg.php

	CE	https://www.sbsstc.ac.in/dptCEengg.php
	CHE	https://www.sbsstc.ac.in/dptCHengg.php
	ME	https://www.sbsstc.ac.in/dptMEengg.php
	CA	https://www.sbsstc.ac.in/CO.php
	Architecture	https://www.sbsstc.ac.in/dptArch.php

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	117	116	99.14
ECE	B. Tech. ECE	33	25	75.7
EE	B. Tech. EE	42	33	78.57
CE	B. Tech. CE	60	48	80
MCA	MCA	12	10	83.33
BCA	BCA	12	9	75
MBA	MBA	2	2	100
CHE	B. Tech. CHE	18	14	78
Architecture	B.Arch	43	37	86
ME	B.Tech ME	154	108	70.12
B.Sc.(Agri)	B.Sc.(Agri)	30	28	93.33

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. The weblink for the Students Satisfaction Survey (SSS) of the institute is

https://docs.google.com/forms/d/e/1FAIpQLSd9IcfRHSqUZxNpk3teYnwR5w5488L1B4CwSFQWvpcR5pi7SA/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 (if yes give details) The institution provides seed money to its teachers for research but none of the faculty members have availed it during 1st June 2018-31st May 2019.

Name of the teacher getting seed money	The amount of seed Money	Year of receiving grant	Duration of the grant
____	____	____	____

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	0
AICTE sponsored MODROB project for "Up gradation of Optical and Wireless Communication laboratory" (sanctioned in 2018-19)	2 Years	AICTE	7.88 Lac	7.88 Lac
Minor Projects	____	____	____	____
Interdisciplinary Projects	____	____	____	____
AICTE sponsored Short term training	0.75 year (9 months	AICTE	2.34 Lac	2.34 Lac

program of 1 week on "Virtual Instrumentation in Academics, Research and Industry" (sanctioned in 2018-19)	from project sanctioned)			
Industry sponsored Projects	____	____	____	____
Projects sponsored by theUniversity/ College	____	____	____	____
Students Research Projects (other than compulsory by the College)	____	____	____	____
International Projects	____	____	____	____
Any Other (Specify)	____	____	____	____
Total	____	____	14.72 Lac	10.22 Lac

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

Rs. 23.69 Lac sanctioned to PhD Research Scholar Ms Navjot Kaur under the guidance of Dr. Monika Sachdeva in 2015

01 project by Dr Kultardeep Singh

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
Seminar on Artificial Intelligence and Machine Learning" by expert from E2MATRIX-Training and Research Institute.	ECE	08/10/2018
Seminar on "5G Networks" by expert from NETSIM, Bangalore.	ECE	13/02/2019
Workshop on "Machine Learning and Python Programming" by experts from Monkfox, Bangalore.	ECE	20/02/2019-22/02/2019
Organized the Seminar on "Technology Awareness" by expert from Sach Tech, Mohali.	ECE	08/03/2019
National Science Day 2019 at Punjab Remote Sensing Centre, Ludhiana	CE	28/02/2019
Expert lecture on Structure	CE	11/03/2019

Geo-Matics and its applications	CE	19/03/2019

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
Certificate of Appreciation	Dr. Amit Arora, Associate Professor	International Conference on Advanced Materials, Energy & Environmental Sustainability (ICAMEES -2018), University of Petroleum and Energy Studies (UPES), Dehradun, India-	14/12/2018- 15/12/2018	Certificate of Appreciation as invited speaker

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
CSE	02
CHE	1
DASH	06

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	05	2.5
International	ECE	03	___
International	ECE	02	0.452
International	EE	05	___
International	CE	03	___
International	MCA	04	1
International	CHE	05	4.4
International	DASH	34	___
International	ME	20	0.5

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	05
ECE	01
EE	03
CE	03
MCA	01
CHE	04
DASH	04

3.4.4 Patents published/awarded during the year

Patent Detail	Patent Status/Published Filed	Patent Number	Date of Award
Inhibition of Gas Hydrate Formation by a Novel Green Kinetic Inhibitor	Filed on 02-03-2016 with Application No. 201611007370	311303	16/04/2019

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
D-FAC: A novel Phi-Divergence based DDoS defense System	Sunny Behal, Krishan Kumar, Monika Sachdeva	Elsevier Journal of King Saud University-Computer and Information Sciences	2018	___	SBSSTC, Ferozepur	9
D-FACE: An anomaly based distributed approach to detect DDoS attacks and FEs	Sunny Behal, Krishan Kumar, Monika Sachdeva	Elsevier Journal of Network and Computer applications (JNCA)	2018	___	SBSSTC, Ferozepur	33
Features Extraction using Local Binary Patterns and Steerable Pyramids for Efficient Image Retrieval	Poonam Rani, Sonika Jindal	International Journal of Computer Applications	2018	___	SBSSTC, Ferozepur	___
A generalized information theory-based detection	Sunny Behal, Monika	Turkish Journal of Electrical Engineering &	2018	___	SBSSTC, Ferozepur	8

system for distributed denial of service attack and flash events	Sachdeva, Krishan Kumar	Computer Sciences				
An Improved LBP Blockwise Method For Face Recognition	Nikhil Goyal, Sunny Behal	IGI International Journal of Natural Computing Research (IJNCR)	2018	⎯	SBSSTC, Ferozepur	⎯
Heart Disease Prediction System using Hybrid Technique of Data Mining Algorithms	Navdeep Singh, Sonika Jindal	International Journal of Advance Research, Ideas and Innovations in Technology	2018	⎯	SBSSTC, Ferozepur	⎯
A Multiple Object Analysis for Indoor Scene Recognition with Scene Adaptive Classification	Gagandeep Singh, Sonika Jindal	International Journal of Advance Research, Ideas and Innovations in Technology	2018	⎯	SBSSTC, Ferozepur	⎯
A Hybrid Technique for Assesment of Heart Sickness Forecast	Navdeep Singh, Sonika Jindal	International Journal of Computer Applications	2018	⎯	SBSSTC, Ferozepur	⎯
A Novel Classification Approach Capable Indoor Scene Picture Identification with Hybrid Feature Selection Algorithm	Gagandeep Singh, Sonika Jindal	International Journal of Computer Applciations	2018	⎯	SBSSTC, Ferozepur	⎯
On QoS evaluation for ZigBee incorporated Wireless Sensor Network (IEEE 802.15. 4) using mobile sensor nodes	Vishal Kumar Arora, Vishal Sharma, Monika Sachdeva	Journal of King Saud University - Computer and Information Sciences	2018	⎯	SBSSTC, Ferozepur	2
Energy based Self-Organizing Tree-based Routing Strategy for Wireless Sensor Networks	Navpreet Kaur, Vishal Kumar Arora, Richa Sawhney	International Journal of Computer Applications	2018	⎯	SBSSTC, Ferozepur	⎯
Tree-Based Energy Efficient Clustered	Dolly, Vishal	International Journal of	2018	⎯	SBSSTC,	⎯

Routing Strategy for Wireless Sensor Networks	Kumar Arora, Richa Sawhney	Computer Applications			Ferozepur	
Adaptive M-SVM Classification Model qualified Indoor Scene Images with Hybrid Feature Selection Approach	Gagandeep Singh, Sonika Jindal	International Journal of Advance Research, Ideas and Innovations in Technology	2018	───	SBSSTC, Ferozepur	───
Performance Analysis of 4 X 10 Gbps OFDM-PON System over ROF Link	Anjali Koundal, Sanjeev Dewra	Journal of Optical Communication	2017	04	SBSSTC, Ferozepur	04
Investigation of 16× 10 Gbps DWDM system based on optimized semiconductor optical amplifier	Aruna Rani, Sanjeev Dewra	Journal of Optical Communications	2017	03	SBSSTC, Ferozepur	02
Symmetric Mach–zehnderdemultiplexing technique for optical time-division multiplexing: comparison of EAM, MZM and AM	Pawandeep Kaur, Sanjeev Dewra	Journal of Optical Communications	2017	03	SBSSTC, Ferozepur	03
Performance of bus and ring network topologies based on SOA bias current	Aruna Rani, Sanjeev Dewra	Journal of Optical Communications	2017	02	SBSSTC, Ferozepur	02
Performance evaluation of DPSK system with different combination of hybrid optical amplifiers by using equal and unequal channel spacing	Manveer Singh, Sanjeev Dewra	Journal of optical communications	2018	01	SBSSTC, Ferozepur	01

GPU accelerated face detection from low resolution surveillance videos using motion and skin color segmentation	VikramMutneja, Dr. Satvir Singh	Optik-International Journal for Light and Electron Optics,	2018	04	I.K.G. Punjab Technical University, Kapurthala	04
Electrically Small Microstrip Patch Antenna Loaded with Spiral Resonator for Wireless Applications	Rajni, R., Marwaha, A.	Wireless Personal Communications	2017	1	SBSSTC, Ferozepur	1
On the detection of Cardiac Arrhythmia with Principal Component Analysis	Kaur, H., Rajni, R.	Wireless Personal Communications	2017	6	SBSSTC, Ferozepur	6
Electrocardiogram signal analysis for R-peak detection and denoising with hybrid linearization and principal component analysis	Kaur, H., Rajni, R.	Turkish Journal of Electrical Engineering and Computer Sciences	2017	7	SBSSTC, Ferozepur	7
Distinctive approach to design tree in Wavelet Packet based OFDM system	Rajni	Journal of Engineering Science and Technology Review (JESTR)	2017	2	SBSSTC, Ferozepur	___
A Novel Approach For Denoising Electrocardiogram Signal Using Hybrid Technique	Rajni	Journal of Engineering Science and Technology	2017	1	SBSSTC, Ferozepur	1
Determination of electromagnetic parameters of a new metasurface comprising of square loop	Rajni	Journal of Engineering Science and Technology	2018	-___	SBSSTC, Ferozepur	-___

An Analysis of AI-based Supervised Classifiers for Intrusion Detection in Big Data	Gulshan Kumar	Big Data Analytics: A Social Network Approach	2018	____	SBSSTC, Ferozepur	____
Treatment of waste water through electro-coagulation.	Amit Arora, Rajwant Kaur, Amandeep Kaur, Narendra Singh, Sangeeta Sharma	Pollution Research	2018	18	SBSSTC, Ferozepur	____
Green and efficient reverse micellar extraction and recovery of mixed ionic dyes from textile effluent.	Narinderjit Kaur, Sangeeta Sharma and Ekta Khosla	Tenside Surfactants Detergents	2018	0.86	SBSSTC, Ferozepur	____
Role of Surfactants CPC and CTAB in the reverse micellar extraction of Ternary mixture of acid dyes from textile effluent.	Narinderjit kaur, Sangeeta Sharma, Ekta Khosla	Tenside Surfactant Detergents	2018	0.86	SBSSTC, Ferozepur	____
Study of biological treatment of Paper-Pulp effluent	Amandeep Kaur and Sangeeta Sharma	Asian journal of chemistry,	2018	29	SBSSTC, Ferozepur	____
Various methods for removal of dyes from industrial effluents- a review	Sangeeta Sharma & Amandeep Kaur	Indian journal of science and technology	2018	0.68	SBSSTC, Ferozepur	____
Investigation of optical and dielectric properties of Nickel Zinc Ferrites Synthesized at different pH values	Richa, Anand K. Tyagi, DS Ahlawat & Amrik Singh,	Int. Journal of Scientific Research and Review	2019	____	SBSSTC, Ferozepur	____
BER reduction in DWT-OFDM systems using a Novel Error	Simmi Garg, AK Sharma, Anand K.	Research & Reviews: Journal of Physics	2019	____	SBSSTC, Ferozepur	____

Correction Scheme	Tyagi.					
Novel Carbohydrate Based Non-Ionic Gemini Surfactants with Flexible Spacer as Reverse Micellar Systems for Encapsulation of D- and L-Enantiomers of Some Aromatic α-Amino Acids in *n*-Hexane	Lalit Sharma	Tenside Surfactants Detergents Hanser, Germany	2018	0.75	SBSSTC, Ferozepur	____
Carbohydrate Derived Non-ionic Gemini Surfactants: GeminiA Mini Review	Lalit Sharma	Mini Reviews in Organic Chemistry	2018	1.12	SBSSTC, Ferozepur	____
Impact of Reading Practices on Job Satisfaction of College Teachers	Sunanada Sharma, Raminder Pal Singh	Research Review International Journal of Multidisciplinary	2018	____	SBSSTC, Ferozepur	____
A Study of Investors' Behaviour towards Mutual Fund with reference to District Moga (Punjab)	Nidhi Aggarwal, Raminder Pal Singh	Research Review International Journal of Multidisciplinary	2018	____	SBSSTC, Ferozepur	____
Dynamical Analysis of an Innovation Diffusion Model with Evaluation Period	Dr. Rakesh Kumar	Bol Soc Paran. Mat.	2018	____	SBSSTC, Ferozepur	____
Delay Induced Hopf Bifurcation in a Nonlinear Innovation Diffusion Model: External Influences Effect	Dr. Rakesh Kumar	East Asian Journal on Applied Mathematics	2018	____	SBSSTC, Ferozepur	____
Stability and bifurcation analysis of a delayed innovation diffusion model	Dr. Rakesh Kumar	Acta Mathematica Scientia, English Series	2018	____	SBSSTC, Ferozepur	____

Experimental Study on Effectiveness of Celdek Packed Liquid Desiccant Cooling System	Rakesh Kumar & Arun Kumar Asati	Heat Transfer Engineering Taylor & Francis	2018	——	SBSSTC, Ferozepur	——
Effect of parameters on earth air heat exchanger in hot-dry climate	Balit Singh, Arun Kumar Asati & Rakesh Kumar	Research Journal of Engineering and Technology	2018	——	SBSSTC, Ferozepur	——
Effect of parameters on earth air heat exchanger in hot-dry climate	Balit Singh, Arun Kumar Asati & Rakesh Kumar	Journal of Mechanical Science and Technology,	2018	——	SBSSTC, Ferozepur	——
Secondary Stage Creep Deformations and Stresses in Thick Spherical Vessels Considering Plain Strain.	S.Singh Sandhu, T. Singh and V. K. Gupta	The Journal of Emerging Technologies and Innovative Research	2018	——	SBSSTC, Ferozepur	——
Effect of Pressure Ratio on Tangential/Axial Stress in Thick Spherical Vessels	S.Singh Sandhu, T. Singh and V. K. Gupta	The Journal of Emerging Technologies and Innovative Research	2018	——	SBSSTC, Ferozepur	
Study and Analysis of Travelling Wire Electrochemical Spark Machining.	Sukhjinder Singh Sandhu and Ramandeep Singh	The Journal of Emerging Technologies and Innovative Research	2018	——	SBSSTC, Ferozepur	——
Comparative Analysis of Polymer Matrix Composites processed by Injection and Compression Molding.	Sukhjinder Singh Sandhu and Ramandeep Singh	The Journal of Emerging Technologies and Innovative Research	2018	——	SBSSTC, Ferozepur	——
Comparative Analysis of Electric	Sukhjinder Singh	The Journal of Emerging	2018	——	SBSSTC, Ferozepur	——

Discharge Sawing Machining with Conventional Electric Discharge Machining.	Sandhu and Ramandeep Singh	Technologies and Innovative Research				
A Study and Analysis on Machining of Hard to Cut Material.	Sukhjinder Singh Sandhu and Ramandeep Singh	The Journal of Emerging Technologies and Innovative Research	2018	____	SBSSTC, Ferozepur	____
Forming Analysis of Polymer Materix Composite.	Sukhjinder Singh Sandhu and Ramandeep Singh	The Journal of Emerging Technologies and Innovative Research	2018	____	SBSSTC, Ferozepur	____
Effect of Pressure Ratio on Tangential/Axial Stress in Thick Spherical Vessels	Sandhu S.S., Singh, Tejeet and Gupta, V.K.	Journal of Emerging Technologies and Innovative Research	2018	____	SBSSTC, Ferozepur	____
Secondary Stage Creep Deformations and Stresses in Thick Spherical Vessels Considering Plain Strain	Sandhu S.S., Singh, Tejeet and Gupta, V.K.	Journal of Emerging Technologies and Innovative Research	2018	____	SBSSTC, Ferozepur	____
Effect of Particle Size on Creep Stresses in Thick-Walled Composite Cylinders Considering Plane Stress	Kohli G.S., Singh, Tejeet and Singh, H.	International Journal of Research in Advent Technology	2018	____	SBSSTC, Ferozepur	____
Secondary Creep Stresses in Thick-Walled Composite Cylinders under Internal and External Pressures	Kohli G.S., Singh, Tejeet and Singh, H.	International Journal of Computational Engineering Research	2018	____	SBSSTC, Ferozepur	____
Static and Fatigue Analysis of Carbon Epoxy Reinforced	Pandher C.S., Brar G.S., and	Asian Journal of Engineering and Applied	2018	____	SBSSTC, Ferozepur	____

Composite Leaf Spring	Singh, Tejeet	Technology				
Occupational hearing loss in Indian forging unit due to impact of impulsive Noise: A case Study	Bhambari, K., Singh, I., Singh, Tejeet and Singh, H.	Industrial Engineering Journal	2018	———	SBSSTC, Ferozepur	———
Occupational Whole Body Vibration Transmitted from Feet to Head in Indian Forging Unit	Bhambari, K., Singh, I., Singh, Tejeet and Singh, H.	Industrial Engineering and Management	2018	———	SBSSTC, Ferozepur	———
Static and Fatigue Finite Element Analysis of Carbon Epoxy Composite Leaf Spring	Pandher C.S., Brar G.S., and Singh, Tejeet	International Journal of Advanced Scientific Research and Management	2018	———	SBSSTC, Ferozepur	———
Droplet Evaporation And Ignition At High Pressure. Pp.1652-1657	Mr. Gurnam Singh, Dr. Neel Kanth Grover	International Journal of Creative Research Thoughts	2018	———	SBSSTC, Ferozepur	———
Droplet Vaporization in Subcritical and Supercritical Environments; High vs Low Pressure Modeling, Pp. 2911-2917	Mr. Gurnam Singh, Dr. Neel Kanth Grover	International Journal of Applied Engineering Research	2018	———	SBSSTC, Ferozepur	———
Application of central composite design in adsorption of malachite green dye by using carbonized Eucalyptyus	Surindersingh, KshamaGautam, Rajiv arora,	International Journal of Computational Engineering Research	2018	———	SBSSTC, Ferozepur	———
Parametric & Kinetic Study for the Adsorption of Crystal Violet Dye by Using Carbonized Eucalyptus	Bohar Singh, B.S. Walia and Rajiv Arora	International Journal of Computational Engineering Research,	2018	———	SBSSTC, Ferozepur	2
cybercrimes: A Proposed Taxonomy	Gulshan Kumar	Journal of Computer	2018	9	SBSSTC, Ferozepur	9

and Challenges		Networks and Communications				
Eucalyptus wood charcoal as Biosorbent for removal of lead(II) ions from aqueous solution	Bohar Singh, B.S. Walia and Rajiv Arora	International Journal of Research and Analytical Reviews	2018	____	SBSSTC, Ferozepur	____
Investigations on Dielectric Resonator Material (Ba/Ca) 2Ti9O20 for Microwave Communication Technology	Anand K Tyagi	WSEAS Transactions on Electronics	2018	0.86	SBSSTC, Ferozepur	---
Morphological Properties of Titanium-Niobium Alloys with Different Compositions on Glass Substrate	Aditi and Anand K. Tyagi	Int. Journal of Scientific Research and Reviews	2018	UNIV	SBSSTC, Ferozepur	---
Synthesis of Core-shell structured Zinc Oxide-Polymethylmethacrylate (PMMA) Films through Wet Chemical Method	Neha Narang and Anand K. Tyagi	Journal of Emerging Tech. & Innovative Research	2018	5.87	SBSSTC, Ferozepur	---
Structural and Optical Properties of Magnesium Oxide Core-shell Structured Nanoparticles with PMMA Matrix	Neha Narang and Anand K. Tyagi	International Journal of Research and Analytical Reviews	2018	5.75	SBSSTC, Ferozepur	---
Properties of Core-Shell Silica Nanoparticles with Reinforced Transparent Polymers)	Neha Narang, A.K. Tyagi	International Journal of Scientific Research in Physics and Applied Sciences	2018	1.320	SBSSTC, Ferozepur	---
Thermo-analytical and XRD Investigations	Karamveer Kaur,	Int. Journal of Scientific	2018	1.320	SBSSTC,	---

on Ba6Ti5O18 Ceramics Synthesized by Auto Combustion,	Anand K Tyagi	Research in Physics and Applied Sciences			Ferozepur	
Morphological Investigation, FTIR Analysis and Dielectric Measurement of Auto Ignition Synthesized Ba6Ti5O18 Ceramics	Karamveer Kaur, Anand K Tyagi	Journal of Emerging Technologies and Innovative Research	2018	5.87	SBSSTC, Ferozepur	---
Study Of Structural, Morphological And Electrical Properties Of Ti50Nb50 (Ti -66 wt.% Nb) Thin Films On Glass Substrate At Different Temperatures 100°C, 200°C and 300°C	Aditi & Anand K Tyagi	International Journal of Research and Analytical Reviews	2018	5.75	SBSSTC, Ferozepur	---
Selection of parameters of Quadratic Permutation Polynomial Inter leavers of Turbo Codes	Simmi Garg, A.K. Sharma & A.K. Tyagi	Int. Journal of Modern Electronics and Comm. Engineering	2018	0.353	SBSSTC, Ferozepur	---
Enantioseparation of D- and L- isomers of Chiral Drugs for Improving their Bioavailability: Some Techniques Including Micellization with Gemini Surfactants	Lalit Sharma	Indian Journal of Pharmaceutical Education and Research	2018	0.425	SBSSTC, Ferozepur	---
A Study of Small Investors' Behaviour towards different Investment Avenues with special reference to Dist. Ferozepur	Nidhi Agarwal, Raminder Pal Singh	DIVINER	2018	---	SBSSTC, Ferozepur	---
Effect of	Neha	Indian Journal of	2018	---	SBSSTC,	---

Advertisement Appeals for Life Insurance Purchase Decisions	Shrivastava, Raminder Pal Singh	Research				Ferozepur	
Study of Promotion strategies adopted by public and private life insurance companies in India	Neha Shrivastava, Raminder Pal Singh	Research Review Int. Journal of Multidisciplinary	2018	---		SBSSTC, Ferozepur	---
Kinetics analysis of reactions at triple phase boundaries of anode supported tubular oxide	P. Kalra, R.K.Garg, Ajay Kumar	Asian Journal of Chemistry	2018	---		SBSSTC, Ferozepur	---
Treatment of Waste Water Through Electro Coagulation	Amit Arora, Rajwant Kaur, Amandeep Kaur, Narendra Singh and Sangeeta Sharma.	Pollution Research	2018	---		SBSSTC, Ferozepur	3
Kinetics analysis of reactions at the triple phase boundaries of an anode supported Tubular SOFC	Pankaj Kalra,Rajeev Gargand Ajay Kumar	Asian Journal of Chemistry	2018	---		SBSSTC, Ferozepur	1

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
D-FAC: A novel Phi-Divergence based DDoS defense System	Sunny Behal, Krishan Kumar, Monika Sachdeva	Elsevier Journal of King Saud University-Computer and Information Sciences	2018	___	9	SBSSTC, Ferozepur

D-FACE: An anomaly based distributed approach to detect DDoS attacks and FEs	Sunny Behal, Krishan Kumar, Monika Sachdeva	Elsevier Journal of Network and Computer applications (JNCA)	2018	___	33	SBSSTC, Ferozepur
Features Extraction using Local Binary Patterns and Steerable Pyramids for Efficient Image Retrieval	Poonam Rani, Sonika Jindal	International Journal of Computer Applications	2018	___		SBSSTC, Ferozepur
A generalized information theory-based detection system for distributed denial of service attack and flash events	Sunny Behal, Monika Sachdeva, Krishan Kumar	Turkish Journal of Electrical Engineering & Computer Sciences	2018	___	8	SBSSTC, Ferozepur
An Improved LBP Blockwise Method For Face Recognition	Nikhil Goyal, Sunny Behal	IGI International Journal of Natural Computing Research (IJNCR)	2018	___	0	SBSSTC, Ferozepur
Heart Disease Prediction System using Hybrid Technique of Data Mining Algorithms	Navdeep Singh, Sonika Jindal	International Journal of Advance Research, Ideas and Innovations in Technology	2018	___	___	SBSSTC, Ferozepur
A Multiple Object Analysis for Indoor Scene Recognition with Scene Adaptive Classification	Gagandeep Singh, Sonika Jindal	International Journal of Advance Research, Ideas and Innovations in Technology	2018	___	___	SBSSTC, Ferozepur
A Hybrid Technique for Assesment of Heart Sickness Forecast	Navdeep Singh, Sonika Jindal	International Journal of Computer Applications	2018	___	___	SBSSTC, Ferozepur
A Novel Classification Approach Capable Indoor Scene	Gagandeep Singh, Sonika Jindal	International Journal of Computer Applciations	2018	___	___	SBSSTC, Ferozepur

Picture Identification with Hybrid Feature Selection Algorithm						
On QoS evaluation for ZigBee incorporated Wireless Sensor Network (IEEE 802.15. 4) using mobile sensor nodes	Vishal Kumar Arora, Vishal Sharma, Monika Sachdeva	Journal of King Saud University - Computer and Information Sciences	2018	___	2	SBSSTC, Ferozepur
Energy based Self-Organizing Tree-based Routing Strategy for Wireless Sensor Networks	Navpreet Kaur, Vishal Kumar Arora, Richa Sawhney	International Journal of Computer Applications	2018	___	___	SBSSTC, Ferozepur
Tree-Based Energy Efficient Clustered Routing Strategy for Wireless Sensor Networks	Dolly, Vishal Kumar Arora, Richa Sawhney	International Journal of Computer Applications	2018	___	___	SBSSTC, Ferozepur
Adaptive M-SVM Classification Model qualified Indoor Scene Images with Hybrid Feature Selection Approach	Gagandeep Singh, Sonika Jindal	International Journal of Advance Research, Ideas and Innovations in Technology	2018	___	___	SBSSTC, Ferozepur
Chemically activated nanoporous carbon adsorbents from waste plastic for CO_2 capture: Breakthrough adsorption study	Balpreet Kaur, Raj Kumar Gupta, HaripadaBhunia	Microporous and Mesoporous Materials	2019	___	10	Thapar Institute of Engg. &Tech.,Patiala
Porous carbons derived from polyethylene terephthalate (PET) waste forCO_2 capture studies	BalpreetKaur ,Jasminder Singh, Raj Kumar Gupta, HaripadaBhunia	Journal of Environmental Management	2019	___	2	Thapar Institute of Engg. &Tech.,Patiala
Application of	Surindersing	International	2018	___	___	SBSSTC,

central composite design in adsorption of malachite green dye by using carbonized Eucalyptyus	h, KshamaGautam, Rajiv arora,	Journal of Computational Engineering Research				Ferozepur
Parametric & Kinetic Study for the Adsorption of Crystal Violet Dye by Using Carbonized Eucalyptus	Bohar Singh, B.S. Walia and Rajiv Arora	International Journal of Computational Engineering Research	2018	——	2	SBSSTC, Ferozepur
Eucalyptus wood charcoal as Biosorbent for removal of lead(II) ions from aqueous solution	Bohar Singh, B.S. Walia and Rajiv Arora	International Journal of Research and Analytical Reviews	2018	——	——	SBSSTC, Ferozepur

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

No. of Faculty	International level	National Level	Sate Level	Local Level
Attended Seminars/Workshops	05	28	08	02
Presented Papers	27	15	01	NIL
Resource Persons	04	05	NIL	NIL

3.5 Consultancy

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.)
Department of Civil Engineering	Geotechnical Investigations, Material Testing and Structural Design	Various Government, Semi-Government and Private Organizations	Rs. 86,19,955

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
Blood Donation Camp	Red Cross Club	2	08
National Youth Day 2018	5 PB Girls BN NCC Moga	1 ANO	25
Tree plantation Camp	NSS, EFG, RRC	4	50
Eassy Writing Competition	NSS, SECA, RRC	3	80
Drawing , Painting & Slogan writing competition.	NSS, RRC, Youth Services Department	5	60
Vigilance Awareness week	NSS, Vigilance bureau, SECA	5	120
National Youth Day (Declamation Contest)	NSS, RRC, Youth Services Department	4	60
National voter Day (Declamation & Debate Contest	NSS, RRC, Youth Services Department, SVEEP	4	40
Blood Donation Camp	NSS, RRC, Youth Services Department	7	100
RUN FOR FUN National Integration Day (Sardar Patel Birthday) (2018)	13 Pb Bn. NCC Ferozepur along with BSF Ferozepur	1 ANO and 10 officer 0f BSF	105
Swach Bharat Abhiyan for 1month (2018)	13 Pb Bn. NCC Ferozepur along with 5 Girl Bn NCC Moga and DRM office Ferozepur	2 ANO	115
2nd Oct Gandhi Jyanti under Swach Bharat Awayan (2018)	13 Pb Bn. NCC Ferozepur along with 5 Girl Bn NCC Moga and DRM office Ferozepu	2 ANO along with official of DRM office Ferozepur	123
Industrial Tour on 19/12/2018 at Satia Paper Mill, Muktsar	CHESS	2	30

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
International Conference on Advanced Materials , Energy & Environmental	Certificate of Appreciation	University of Petroleum and Energy Studies (UPES), Dehradun, India	1

Sustainability (ICAMEES - 2018)				

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
Swachhta Pakhwada	NSS, RRC, EFG	Swachhta Pakhwada	4	60
Swachh Bharat Abhiyan	SBSSTC,Ferozepur	Cleanliness of institute	2	24
550th Prakash Purab of honourable Shri Guru Nanak Dev Ji	Youth Services and Sports, Government of Punjab	550th Prakash Purab of honourable Shri Guru Nanak Dev Ji on 8th Feb 2019 for arranging a Mega Blood Donation Camp of 550 units and plantation of 550 Trees	2	9
Social Activities like Rallies and Drug De addiction Seminar, Poster Making Competition	Department of Youth Services, Government of Punjab	Social Activities like Rallies and Drug De addiction Seminar ,Poster Making Competition on AIDS Awareness, Regularly Conducting Blood Donation Camps. Sending Deserving Students to Youth Leadership Camps/ Hiking Trekking Camp for the Year 2017-2018.	2	12

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
FDP	19	NITTTR Chd	01 week (04-06-2018 to 08-06-2018)
FDP	32	NITTTR Chd	01 week (27-05-

			2019 to 31-05-2019)
Joint M.S. Thesis with Poland	8 participants with Dr. Amit Arora Joint publication	__	Across the Year

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 MATLAB software for thesis work	Ph.D. thesis work	Punjabi University, Patiala	15-07-2018-15-06-2019	Aruna Rani
Use of laboratory HFSS software for thesis and project work	Ph.D. thesis work	MRS Punjab Technical University, Bathinda YCOE, Punjabi University, Talwandi Sabo	15-07-2018-15-06-2019	Ravi Verma Navneet Kaur

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 Activities	Number of students/teachers participated under MoUs
Infosys	03-06-2016 to 02-06-2020	Campus Connect Program to impart Industry oriented subjects in the curriculum	Teachers - 08
MoU signed between SBSSTC, Ferozepur and NHL Univ. Of Applied Sciences, Leeuwarden, The Netherlands for a period of three years MoU contd. till 17.06. 2018	18.06. 2015 to 17.06.2018	Faculty and student exchange programme	__

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. 275.00 Lacs	Rs.129.47 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	05	---
Classrooms with LCD facilities	32	08
Classrooms with Wi-Fi/ LAN	77	---
Seminar halls with ICT facilities	01	01
Video Centre	01	---
No. of important equipments purchased (≥ 1-0 Lakh) during the current year.	53	06
Value of the equipment purchased during the year (Rs. In Lakhs)	49259566/-	2688055/-
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
KOHA	Fully	18.05.05.000	2018-19

4.2.1 Library Services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	30800	3240642	1200	745	32000	3241387
Reference Books	3490	___	___	___	___	___
e-Books	EBSCO16000	257900	___	___	___	___
Journals	54	___	___	___	___	___
e-Journals	1600	150260	___	___	___	___
Digital Database	02	___	___	___	___	___
CD & Video	448	___	___	___	___	___
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 Syystem (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 Computes	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available band width (MBPS)	Others
Existing	100	04	02	100	1	3	9	255	
Added	___	___	___	___	___	___	___	769	—
Total	100	04	02	100	1	3	9	1024 MBPS	—

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

1 GBPS (1024 MBPS)

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 facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
Rs.50.00 Lacs	Rs.11.97 Lacs	Rs.70.00 Lacs	Rs.36.31 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)(information to be available in institutional Website)

Maintaining and utilizing physical, academic and support facilities -laboratory, library, sports complex, computers, classrooms carried out by the following committees/Offices:

- 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)	13	7,10,128/-
	Student Aid Fund(SAF)	70	1,40,000/-

Financial support from other sources			
National	PMSS Scholarship	160	1,27,09600/-
	J&K Scholarship	7	5,21,850/-
	Bihar Govt. Scholarship	136	8160000/-
	E-Kalyan Welfare Deptt., Govt. of Jharkhand	17	1020000/-
	UP Govt. Scholarship	106	6360000/-
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
Yoga Practice	01/08/2018 to 14/08/2018	59	Bharti Yoga Sansthan, Ferozepur
English Lab	15/07/2018	18	SBSSTC FEROZEPUR
Mentoring & Professional Development	15/07/2018	18	SBSSTC FEROZEPUR

Professional Skills-III	15/07/2018	65	SBSSTC FEROZEPUR
Professional Skills-IV	01/01/2019	65	SBSSTC FEROZEPUR
Professional Skills-I	15/07/2018	45	SBSSTC FEROZEPUR
Professional Skills-II	01/01/2019	45	SBSSTC FEROZEPUR
English Lab	15/07/2018	06	SBSSTC FEROZEPUR
Soft Skill development	15/07/2018	154	Central agency at institute level

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
2018	Competitive examination and Career Counselling	45	50	1	25
2018	Career Counselling	__	03	__	03
2018	GATE Coaching	68	__	6	27

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
—	—	—

5.2 Student Progression

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
Aditya Birla Capital, Faridkot	4	1	03
Capital Via	52	6	__
CETPA Infotech Pvt.Ltd.	41	5	__
CINIF Technologies	18	3	__

Cogniter Pvt Ltd.	109	8	__
Cognixia, Noida	79	14	__
Cognizant Technology Solutions India Pvt. Ltd.,	60	9	__
Devi Techno Solutions	15	1	__
F.B forgings Pvt Ltd	4	1	__
HP	40	2	__
Infosys	88	10	__
Infosys	20	1	__
Lead Group	25	2	__
Machlin SoftwareTechnology	54	7	__
Machlin SoftwareTechnology	12	4	__
Mega rubber Pvt Ltd.	4	1	__
Metro Tyres Ltd.	64	2	__
MIND Infotech	37	5	__
MSP Contracts Pvt. Ltd.	4	1	__
OLA Cabs	12	2	__
OLA Cabs	56	2	__
RAPS Automotive	27	5	__
RAPS Itech	52	9	__
Red Carpet Tech Pvt . Ltd.	5	2	__
Scope Telecom Pvt. Ltd.	24	5	__
Scope Telecom Pvt. Ltd.	18	2	__
Scope Telecom Pvt. Ltd.	22	8	__
TCS	55	7	__
Teleperformance	55	6	__
Teleperformance	14	2	__

Truvic Engg. Pvt.Ltd	5	1	__
Urban Ladder	12	1	__
VVDN Technologies Pvt. Ltd.	39	3	__
Total	1126	138	03

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
2018-19	01	SBSSTC Ferozepur	B.Tech ME	IIT Hyderabad	Research in Field of advance material
2018-19	01	SBSSTC Ferozepur	B.Tech ME	IIT Madras	Research In Aerospace components
2018-19	01	SBSSTC Ferozepur	B.Tech ME	IIM Indore	MBA

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
NET	___	___
SET	___	___
SLET	___	___
GATE	04	CS19S38002220
GMAT	01	-
CAT	___	___
GRE	___	___
TOFEL	___	___
Civil Services	___	___
State Government Services	___	___
Any Other	___	___

5.2.4 Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Participants

District Youth Festival	District	100 (Boys and Girls)
Jashan 2k19	Institutional	500 (Boys and Girls)
Freshers Welcome Function	Institutional	300 (Boys and Girls)
Zonal Youth Festival	University Level	40 (Boys and Girls)
Inter Zonal Youth Festival	University Level	10 (Boys and Girls)
Annual Athletic Meet /Inter Year College Tournament Cricket Football Table Tennis Basket Boll Volley Boll Chess Lawn Tennis Hockey	Institutional	372 (Boys and Girls)

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/ International	Sports	Cultural	Student ID Number	Name of the student
2018-19	Student Youth Parliament	National	—	Student Youth Parliament held at New Delhi.	160280683 B.Tech CSE	Rahul Dhawan
2018-19	2nd Position at PTU, Jalandhar Inter zonal Youth Festival	University Level	—	Collage Making	170040025 B. Arch.	Megha Makkar
2018-19	Silver Medal	University Level	Hockey		170280163 B.Tech CSE	ShobitWadhawan
2018-19	Silver Medal	University Level	Hockey		15110606 B.Tech CSE	AshishBhullar
2018-19	Silver Medal	University Level	Hockey		15110623 B.Tech CSE	Eknoor Singh Sidhu
2018-19	Silver Medal	University Level	Hockey		160340196 B.Tech EE	Pravanav Singh

2018-19	Silver Medal	University Level	Hockey		15110577 B.Tech CE	Sumesh
2018-19	Silver Medal	University Level	Hockey		15110496 B.Tech CE	D.K
2018-19	Silver Medal	University Level	Hockey		150120351 B.Tech CE	Pankaj
2018-19	Silver Medal	University Level	Hockey		15110563 B.Tech CE	SakhielChoudhary
2018-19	Silver Medal	University Level	Hockey		160620360 B.Tech ME	Monu Bhatia
2018-19	Silver Medal	University Level	Hockey		160620312 B.Tech ME	Amarpal
2018-19	Silver Medal	University Level	Hockey		15110807 B.Tech ME	Rahul
2018-19	Silver Medal	University Level	Hockey		170280163 B.Tech CSE	Shobit
2018-19	Silver Medal	University Level	Hockey		15110623 B.Tech CSE	EknoorSandhu
2018-19	Silver Medal	University Level	Hockey		1820486 B.SC Agri	Jaydeep

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, The Alumni Association was registered under Registration No. FZR3585 on dated 08/10/20019

- 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 [sbscet 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.inand one LinkedIn account

5.4.2 No. of registered Alumni:

450 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	19/08/2019

CRITERION VI –GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

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)?

Partial

6.2 Strategy Development and Deployment

6.2.1 Quality improvement strategies adopted by the institution for each of the following (with in 100 words each)**:**

Curriculum Development:

- The syllabi of each department have been updated to meet the requirements of the industry and under consultation with the stakeholders.
- The curriculum is strengthened through workshops and brainstorming sessions on developing research embedded syllabi to make students globally mobile and socially useful.
- A list of open electives floated has been updated by all the department and in the curriculum for quality sustenance and enhanced and effective development of the students.

Teaching and Learning:

- Online Courseware, webinars, video lectures from industry experts and intensive laboratory training has been introduced.
- The students are encouraged to visit library and other online resources for different assignments by providing adequate time for such activities.
- Introduction of Value Added courses in all the streams..

Examination and Evaluation :

- To ensure quality assurance of examination system and evaluation, with the approval of the academic council of the institute, the practices and rules of examination and evaluation has been developed and modified as:
- (i) About 20% question papers for regular examinations are set by experts from outside the institute for maintaining academic standards.
- (ii) Students check their evaluated answer books and can approach designated authorities for getting their complaint redressed.
- (iii)Table marking of the end semester examination answer sheets
- (iv)The committee for deciding UMC cases consists of experts from outside the institute.

Research and Development :

- Each faculty has been provided with the laptop or PC apart from a Computer Centre for research activities.
- The entire institute campus is Wi-Fi enabled (1 Gbps).Conferences, faculty development programmes/ short term courses and guest lectures are organised time to time for the researchers/ students to acquaint with the recent development in the various area of science, humanities and technology.
- Faculty are also encouraged to attend conferences and faculty development programmes/ short term

courses at other institute/ university.
• A research grant of Rs. 50,000/- per year has been allocated for each faculty member for research activities.

Library, ICT and Physical Infrastructure / Instrumentation:-

- The Central library is amultimedia Enabled Digital Library with large number of ebooks, ejournals 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.
- Industrial exhibitions to highlight research facilities and expertise are offered within the Institution. This interaction also provides continuing education opportunities, short-term programmes and training needs of the industry, which the institution can provide.
- Institute has signed Memorandum of Understanding (MoU) with following industries for the purpose of enriching the technical education process:
  Infosys Ltd
  Metro Tyres Ltd., Ludhaiana
  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 counselling conducted by the University.
- The vacant seats are then advertised and filled purely on merit basis.
- Candidates are required to fill the online Registration form. Each application is processed and verified for their admission.

6.2.2   :   Implementation of e-governance in areas of operations:

- Planning and Development: - Student data management, Timetable, attendance modules are working.

- Administration:-Employee data management, Biometric attendance, Leave Management, and Payroll Modules are working

---

- Finance and Accounts:-Fee Management, Receipt and Payments modules are working.
- Student Admission and Support :-Student admission is through centralized Online counselling conducted by the affiliating University
- 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.

6.3 Faculty Empowerment Strategies

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
2018-19	Dr. Rajiv Arora	International Conference on Agriculture & Food Chemistry, Rome (Italy)	Nil	Rs. 75,000

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)
2018-19	Organized expert lecture by expert from Industry "SAP India Ltd." held at institute Vide office order SBS/TPO/177 dated 16-08-2018	_____	17/08/2018	05	_____
2018-19	Energy Efficient Building Materials	_____	17/01/2019	60	_____
2018-19	Energy Conservation Building Code (ECBC) Simulation	_____	11/09/2018 to 12/09/2018	65	_____
2018-19	Two Days Intensive Training Programme On Energy Conservation Building Code Simulation	_____	13/09/2018 to 14/09/2018	85	10
2018-19	District level Workshop-cum-Exhibition on Energy Efficient		17/01/2019	110	12

	Building Materials - 17 January 2019 - By Sakkar Foundation Chandigarh & PEDA				
2018-19	Instructional Delivery (Module II: IPD)		04/06/2018 to 06/06/2018 _____	01	_____

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)
Classroom Communication conducted by Education Management Department Organized at SBSSTC FEROZEPUR Through ICT, NITTTR Chandigarh	02	27/05/2019-31/05/2019
Instructional Delivery	01	04/06/2018 to 08/06/2018
Class room communication	02	27/05/2019 to 31/05/2019
Faculty Development Programme on "Education & Educational Management Development"	01	25/03/2019 to 31/05/2019
AICTE Sponsored Short Term Course on "Classroom Communication"	03	27/05/2019 to 31/05/2019
Recent Research and innovation in Civil Engineering	01	16/07/2018 to 20/07/2018
Cloud computing	01	04/12/ 2018 to 08/12/2018
Class Room communications	01	27/05/2019 to 31/05/2019
Instructional Delivery (Module II: IPD)	01	04/06/2018 – 06/06/2018

6.3.4   Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Fulltime	Permanent	Fulltime
65	65	116	116

6.3.5 Welfare schemes for

Teaching	2
Non teaching	2
Students	6

6.4 Financial Management and Resource Mobilization

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:- 15 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
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
2019	Teachers should be allowed to set the question papers who have taught that subject at least two times.	09/01/2019 (7th IQAC)	09-01-19	115
2019	HOD should not allocate the subject to the teacher who have taught that subject for the last five year.	09/01/2019 (7th IQAC)	09-01-19	115

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 (from-to)	Participants	
		Female	Male
Celebration of International Women's Day	8 March 2019	39	40

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 Situatedness

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
2018	2	2	08/02//2019	Blood Donation	Blood Donation	100
2018	2	2	02/05/2019	SVEEP	Voter awareness program	50

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)
Universal Human Values HSMC122-18	15/07/2018	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	26/09/2018	60
Essay Writing competition on drug De-addiction	26/09/2018	80
Seminar on Vigilance Awareness	01/11/2018	120
Celebration of National Youth Day	07/03/2019	60

7.1.7 Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Tree Plantation on Regular Basis.
2. Swatch Bharat Abhiyan is going on.
3. Painting Competition on environment conservation on regular basis.
4. Seminar on Environmental Conservation on regular Basis.
5. Swachhata Pakhwada to clean campus for 15 days is going on regular basis.

7.2 Best Practices

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

1. The institute is using computerized modules for managing activities related to Academics, Finance And Accounts and Grievances of students
   https://forms.eduqfix.com/sbsstconlineform/add
   https://sbsstc.edugrievance.com/

2. The institute has automated Exam And Grading module for Exam form filling, Conduct of exam and Declaration of Result
   http://10.11.11.11 (MySBSExam intranet website)
3. Institute has fully computerized Library through Koha Library Module

7.3 Institutional Distinctiveness

Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust:-

- Education Quality Improvement through Propagation of Outcome Based Education (OBE) as advocated by NBA

Provide the weblink :- http://10.11.11.11 (MySBSExam intranet website)

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

The following are the future plans for the forthcoming Academic year 2019-20:
- Feasibility review of existing courses and start of new courses
- Affiliation with IKG PTU, Jalandhar
- Adoption of Modular syllabus proposed by AICTE, New Delhi
- Self-imposed objectives to be proposed by each employee for 2018-19.
- To apply for NIRF.
- To organize Activities of Alumni and Teacher Parent Association
- To make premises eco-friendly.
- To render Academic and Administrative Audit of every department.
- To introduce vocational courses.
- Implementation of Management Information System in an effective way.

Name Dr. Lalit Sharma,

05/08/2019

Signature of the Coordinator, IQAC

Name Dr. T.S. Sidhu

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

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