



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution	S. J. B. INSTITUTE OF TECHNOLOGY
Name of the head of the Institution	Dr. Puttaraju
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	08028612445
Mobile no.	9008719999
Registered Email	principal@sjbit.edu.in
Alternate Email	principalnaac@sjbit.edu.in
Address	67, BGS Health and Education city, Dr. vishnuvardhana road
City/Town	Kengeri, Bengaluru
State/UT	Karnataka
Pincode	560060

2. Institutional Status	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Rural
Financial Status	private
Name of the IQAC co-ordinator/Director	Dr. Babu N V
Phone no/Alternate Phone no.	08028612445
Mobile no.	9448758276
Registered Email	principalnaac@sjbit.edu.in
Alternate Email	eeehod@sjbit.edu.in

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://www.sjbit.edu.in/wp-content/uploads/2018/12/The-Annual-Quality-Assurance-Report-AQAR-of-the-IQAC-SJBIT.pdf
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4. Whether Academic Calendar prepared during the year	Yes
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if yes,whether it is uploaded in the institutional website: Weblink :	https://sjbit.edu.in/calendar-of-events/
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5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.22	2017	30-Oct-2017	29-Oct-2022

6. Date of Establishment of IQAC	03-Apr-2017
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7. Internal Quality Assurance System

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
Periodical IQAC meetings	15-Sep-2018	28

	3	
Quality audit	30-Jan-2019 4	209
No Files Uploaded !!!		

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
EEE	Student project	VTU	2019 180	10000
ECE	Student project	KSCST	2019 180	6000
Mechanical	Student project	KSCST	2019 180	24000
Mechanical	Student Project	VTU	2019 180	10000
Civil Engineering	Student project	KSCST	2019 180	8500
CSE	Student Project	VTU	2019 180	10000
CSE	Staff Project	VGST	2019 360	500000
Civil	Student Project	VTU	2019 180	10000
ISE	Student Project	VTU	2019 180	10000
ECE	Student Project	VTU	2019 180	10000
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

3

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

11. Whether IQAC received funding from any of the funding agency to support its activities

No

during the year?	
12. Significant contributions made by IQAC during the current year(maximum five bullets)	
ICT, Unnath Bharath Abhiyan, In house internship program, Induction program	
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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year	
Plan of Action	Achivements/Outcomes
DPD (Digital Professional Development) • All the class rooms are equipped with Apple TV, classroom wifi systems and projectors, All staff are provided with ipads.	Understanding level of students is increased. • Time which used to consume for writing big sketches are saved. Syllabus coverage rate is increased. More time for revising the syllabus. Beyond syllabus topics are covered
No Files Uploaded !!!	
14. Whether AQAR was placed before statutory body ?	Yes
Name of Statutory Body	Meeting Date
IQAC	21-Sep-2019
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2019
Date of Submission	27-Feb-2019
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief descripton and a list of modules currently operational (maximum 500 words)	<ul style="list-style-type: none"> • Student admission system • Student attendance monitoring system • Student performance tracking • Student feedback system • Staff feedback system • Grievance redressal system • SC/ST/OBC feedback • API • Quality audit assessment • Library management system • Staff attendance Leave management

system • Student Information Management System (SIMS) The SIMS software designed exclusively to streamline and managing all the tasks involved in student admission. It makes the time consuming and hectic process of student enrolment easy by reducing the paperwork considerably and digitizing each process for achieving productivity and transparency. Student information systems must meet the following objectives:

- Enable self service for students to perform basic administrative functions and tasks in a "one stop" service and access environment.
- Integrate data sources and process them through a single function that supports onetime entry of student data.
- Integrate and support new learning and teaching opportunities and technologies for students and faculty.
- Support open interfaces and integration with other campus applications and database systems.
- Ensure data integrity, privacy, and security in an open access environment.
- Support faculty and staff who perform both basic and complex functions through simplified work processes and procedures.
- Enable ongoing, flexible reconfiguration of the application to extend its life cycle and to meet the changing business processes of the university.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

we adopt the curriculumoverview provided by the Visvesvaraya Technological University. Depending on our resource potentiality, institutional goals and concern towards the students, we impart quality education.The institution has developed a structured and effective implementation of the curriculum.

Following are the various means through which it executives the curriculum.

HOD's Meeting: HOD's Meetings are held once in 15 days. Head of the Department discuss their action plans to arrive an optimal and effective way.

Academic Calendar: Academic Calendar is prepared as per the Andhra University academic schedule and the requirements at the department level as per the action plans formed.

Lesson Plan: A Lesson plan includes course outcomes, course objectives, content topics, reference books and the expected outcomes from the students by learning through the topics prepared by respective faculty members at the beginning of each semester. It gives an insight how the lecture class will be handled throughout the semester.

Meeting the Vision and Mission of the Concerned Department: Each department sets their own Vision and Mission which

match with the Institutional Vision and Mission. Program Educational Objectives (PEO) and Program Outcomes (PO) are developed for each program and Course Objectives (CO) and course outcomes are defined for each course (theory and lab).

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
Automation Technologies		07/01/2019	30	Employability	Hydraulics Pneumatics, programming with PLC Sensors integration with drives Controls
CATIA		06/02/2019	15	Employability	Surface Modelling 3D2D drafting

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	ECE, EEE, CSE, ISE, Civil, Mechanical	05/09/2018
MBA		05/09/2018
Mtech	VLSi, CSE, CNE, MD, SE, CADS	05/09/2018

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

Certificate	Diploma Course
No Data Entered/Not Applicable !!!	

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
Internet of Things	26/02/2019	210
Internet of Things	09/05/2019	210
Advance Web Technology	11/02/2019	208
Web Technology	24/09/2019	210
Data science with R	13/08/2019	211

Oracle SQL Database	04/02/2019	130
C programming data structures	06/03/2019	150
Workshop on solar energy and smart systems by Skifi labs	30/07/2019	72
Workshop on C programming	16/01/2019	72
Workshop on Data Structures	04/02/2019	72
Workshop on Oracle SQL database	28/02/2019	72
Skills Placement Training	18/01/2019	770
Oracle SQL Database	28/02/2019	135
Course on Autocad with certification from autodesk	30/07/2019	138
C program	28/01/2019	146
C Programming data structure	09/10/2019	144
First aid safety CPR	17/07/2019	150
IOS app development	06/08/2018	60
Python, web technology, data science, CISCO	26/07/2018	444
CISCO certification	22/07/2019	100
IOS certification	06/08/2018	40

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	ECE, CSE, ISE, EEE, Civil, Mechanical	738
MBA		7
Mtech	VLSI, CSE, CNE, MD, SE, CADS	53

1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained

The institution collects the feedback on infrastructure, curriculum aspects and courses from different stakeholders such as the students, alumni, Faculty and Employers. Institution established Academic Enrichment Committee in order to ensure and analyze the academic excellence at student and faculty levels. Periodical analysis is made by Academic Enrichment Committee from the following: student performance, faculty performance in every semester, utilization of infrastructure and requirements for quality enrichment. Alumni surveys are conducted during alumni interaction at the alumni association meeting held every year Whenever any alumni visits the college, feedback is taken Further, college website invites alumni to provide feedback through online Feedback from industry, R D establishments, professional bodies also are obtained The college conducts annual Alumni Meet every year, in which suggestions and feedback is received from Alumni students. Feedback from industrial management, R D establishments and professionals is obtained through different modes. The provided feedback data is presented in the IQAC Meeting for necessary implementation. ??Alumni surveys are conducted during alumni interaction at the alumni association meeting held every year ??Whenever any alumni visits the college, feedback is taken ??Further, college website invites alumni to provide feedback through online. ??Feedback from industry, R D establishments, professional bodies also are obtained.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	ECE, CSE, ISE, EEE, Civil, Mechanical	720	1100	595
Mtech	VLSI, CSE, CNE, MD, SE, CADS	108	70	39
MBA	MBA	120	180	108

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 fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	3197	149	146	19	34

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
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209

209

351

72

72

50

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

ACHARYA (PROCTORAL COMMITTEE) Proctor is a powerful personal and career development tool that can enable the mentee to achieve their life goals and aspirations. Proctor is also an interactive system for student evaluation and continuous monitoring to enhance the overall personality of students. Objectives • To inspire healthy relationship between the teacher and students. • To solve the academic and other issues of students. • To identify the strength and weakness of students. • To build himself confidence. • To provide encouragement and moral support. • To groom the overall personality of students. • Listen and be supportive. Mission • Continuous and regular monitoring the academic progress of the students and to rectify their problems. • The proctor system encourages parents to be in regular contact with the proctor. • To develop student's competency for enhanced academic performance and carrier development. Vision • To develop intellectual resource to the competence market and society. Strategies • Develop and reward excellent learning skills through induction, training and counselling. • Orientation to all proctors by a professional psychologist. • Orientation to students and parents. • Availability of psychologist two days in a week. • MOU with authorized psychologist at GIMS. • Identified rural students and help them build self-confidence. • To provide information broacher of proctor system to the students and parents Monitoring • A separate cell to monitor the progress of the student on all fronts especially in academic and assist them in the right direction in case they need, on an one to one basis under the guidance of the principal has been formed. • A group of around twenty students will be allotted to a proctor, who will be the proctor/mentor/councillor/guide for that group of students till they complete the course. The proctor will be from the same department for which the student as taken admission. As the student takes admission to the institution his/her attendance progress, tests marks, results of the university examination, his behaviour and attitude in the class room and with friends and his associations are closely monitored. • If the proctor feels that a particular student needs counselling on any of the above issues, he/she will be counselled. Also, the proctor counselling all the students before each test for their academic issues. • In extreme cases the parents are called to the institution and the students are counselled in front of the parents and the higher ups. • Every month the faculties will enter the attendance of the students and the test marks of the subjects in the proctor book. At the commencement of the First semester students and parents will know the details of their proctor. • The proctor will maintain a record book for each student for the next eight semesters, and the academic and other details being entered as and when they are available with time. Outcomes • Improvement in student academic performance. • Improvement in student behaviour and personality. • Enhancement in student confidence level. • Improvement in sports and extra-curricular activities.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3197	191	1:19

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
168	209	0	11	0

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Dr. K V Mahendra Prashanth	Professor	Distinguished leader from centre for leadership development - V I foundation

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	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	EE, EC, CV, ME, CS, IS	2/1	16/07/2019	16/08/2019
BTech	EE, EC, CV, ME, CS, IS	4/2	16/07/2019	24/08/2019
BTech	EE, EC, CV, ME, CS, IS	6/3	16/07/2019	16/08/2019
BTech	EE, EC, CV, ME, CS, IS	8/4	16/07/2019	15/07/2019
Mtech	CSE, CN, VLSI, MD, CADS, SE	2	31/05/2019	29/07/2019
Mtech	CSE, CN, VLSI, MD, CADS, SE	4	31/05/2019	29/07/2019

2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Institute's primary focus on strengthening teaching learning process through rigorous assessment and evaluation. Institute closely follows all the reforms introduced by VTU. VTU envisages the need for radical reforms in traditional examination and assessment system by evolving a credible, effective and transparent evaluation system that responds confidently to the challenges and newer demands of a knowledge society. The syllabus and evaluation scheme are revised by VTU periodically to meet global standards and update students to latest trends in technology. Institute made reforms in CIE, according to the reforms made by VTU. Process:

- University guidelines are strictly adhered to with respect to evaluation process. There are three internal tests conducted. The schedules of internal assessments are communicated to students and faculty in the beginning of the semester through institute academic calendar which is prepared based on the university academic calendar it is discuss in IQAC meeting. Before a week internal exam time table is displayed on the notice board. Questions are framed, such that they adhere to VTU standard. It follows the Blooms Taxonomy and Outcome based Education in which COs are attained. The subject handling faculty prepares question bank that covers equal number of questions from each unit, covering all the topics
- Department internal exam coordinator under the guidance of HOD, checks for the standard of the question bank.
- College Internal exam Coordinator along with a Exam team selects the final internal question paper for each subject.
- Question papers are given to the internal exam coordinators of the department on the prier day of test, after approval from the DAC.
- Squad members are allotted from all the department to monitor and checks the quality of the test conduction and also CCTV cameras are deployed at all class rooms, exam cell and laboratories to monitor the examinations.
- Internal exam coordinator ensures smooth conduction of test and proper valuation of internal books.
- A Centralized valuation system is followed. The head of the Centralized scheme is registrar of the college and marks are entered in Softcopy as well as in hard copy.
- Faculty prepares the answer key / Scheme of evaluation and it is documented with a copy of sample question paper for the future reference.
- After every internal exam, Total Quality Management (TQM) Check is performed to ensure that valuation is done according to Scheme prepared.
- Internal assessment tests and other

measures taken to judge the performance of students is done fairly and in an effective manner. • Students are allowed to go through the valued answer scripts of internal assessment tests and doubts regarding evaluation are cleared. • Internal Test performance are intimated to the parents to sending the SMS to individual marks obtain by the students and Parent Teachers Meeting is conducted within a week to discuss the performance of their ward.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

The institute level Academic Calendar prepared according to the calendar provided by Visvesvaraya Technological University. Every semester prepare the academic calendar for the institute and also department wise activities such as guest lecture and industry interaction schedule for smooth functioning. The academic calendar was prepared and followed for conduct of CIE and SEE along with enrichment activities. The academic calendar is displayed on the institute website and also shares with the head of the departments so as to ensure proper execution. Being an institute affiliated to Visvesvaraya Technological University, we follow the academic schedule provided by the university. The Institute prepares their own academic calendar for various programmes which follow the timelines/guidelines and academic schedule of the affiliating University. University gives guidelines on the following in their academic schedule, Last working day of the semester. Midterm examination schedule. Annual Sports meet Annual cultural Fest End term theory and Practical examination schedule Vacation schedule. It provides plan for the academic year to students, teachers and parents. Considering the academic calendar, each department functions according to the teaching plan prepared at the department level.

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)

https://www.sjbit.edu.in/wp-content/uploads/2019/12/All-Dept.CO.s_2018-19_NAAC.pdf

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
UG	BTech	EEE	58	58	100
UG	BTech	CSE	206	205	99.51
UG	BTech	ECE	134	128	95.52
UG	BTech	MECH	122	118	96.7
UG	BTech	CIVIL	128	127	99.27
UG	BTech	ISE	127	123	96.85
PG	MBA	MBA	107	101	94.39

2.7 – Student Satisfaction Survey

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

<https://www.sjbit.edu.in/wp-content/uploads/2019/12/Campus-Facility->

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION**3.1 – Resource Mobilization for Research**

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	1095	VGST	6000000	2000000
Major Projects	1095	GKVK	150000	0
Major Projects	365	VGST	500000	500000
Projects sponsored by the University	180	VTU	60000	60000

3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Workshop on IPR for student and faculty members	Mechanical Department	10/01/2019
Workshop on OBE NBA accreditation process	Mechanical Department	17/07/2019
Water and Energy in construction	Civil Department	05/05/2018
Internship opportunities for civil engineering students in ISRO	Civil Department	17/12/2018
Geopolymer, alternative to cementbased materials and Development of masonry units using Geopolymer	Civil Department	05/05/2018
Indian Green Building Council (IGBC)	Civil Department	04/05/2018

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Design of smart helmet	Adithya	World Innovation Dubai	10/09/2018	Student
Design of smart helmet	Adithya	Caterpult Crowd Singapore	10/12/2018	Student
Design of smart water monitoring for lakes	Adithya	Climate Launchpad	02/01/2019	Student
Design of smart	Adithya	CLP Scotland	21/02/2019	Student

water monitoring for lakes				
Effluent Management system for water bodies	Adithya	LJ Innovation, DST India	19/03/2019	Student
Project exhibition, Akshaya Prayog	Bharath Kumar, Chandan t D, Sanjay B S, Indushree M	Akshaya institute of technology, Tumkuru	10/05/2019	Student
Technological debate on "Industry 4.0 Boon or Bane"	Sriram S Vasana	Design and Innovation clinic,	16/03/2019	Student
Technological debate on "Current Education System Good or Bad"	Sriram S Vasana	Design and Innovation clinic,	16/03/2019	Student
Design Implementation of single MPPT algorithm for hybrid solar wind energy systems	Kaushik Yadav G	1st international conference "ICETEISM 2019"	18/05/2019	Student
Intelligent traffic control system for providing green path to emergency vehicles	Kshitija Anil Udirkar	1st international conference "ICETEISM 2019"	18/05/2019	Student

3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
No Data Entered/Not Applicable !!!		

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
ECE	3

ISE	1
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3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
National	nil	0	0
International	EEE	5	1
International	Basic Science	14	1.36
International	ECE	14	1.2
International	CSE	7	1.23
International	Civil	3	0
International	Mech	24	2.6

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

Department	Number of Publication
EEE	3
Physics	2
Mechanical	4
ISE	3
CSE	1
Civil	1

3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Optimal sizing in hybrid renewable energy system with the aid of opposition based social spider optimization	S.R.Sandee p	Journal of Electrical Engineering Technology	2019	22	VTU	0
Multiobjective whale optimization based minimization of loss,	J P Sridhar	International Journal of Electrical and Computer E	2019	14	SJBIT	7

maximization of voltage stability considering cost of DG for optimal sizing and placement of DG		engineering				
A review on clustering protocol for enhancing energy efficiency in WSN	Dr. Babu N V	IJRECE	2018	1	SJBIT	0
The hetero junction effect of Pd on TiO ₂ for visible light photocatalytic hydrogen generation via water splitting reaction and photo decolorization of trypan blue dye.	Dr Banuprakash G	Journal of Materials Science: Materials in Electronics	2018	63	SJBIT	0
Farey Sequence for Error Correcting Codes and Medical Images	Poornima M	International Journal of Engineering Technology	2018	20	SJBIT	0
Effect of Boundary Conditions on Electro thermal convection in a Porous Medium with Variable Viscosity	Geetha B S	Journal of the Egyptian Mathematical Society	2019	1	SJBIT	0

Synthesis, characterisation and molecular structure study of metal complexes of antipyrine based ligand	Dr. B H Doreswamy	Journal of Molecular Structure	2019	1	SJBIT	0
Computational and spectroscopic investigations on boronic acid based fluorescent carbohydrate sensor in aqueous solution at physiological pH 7.5	Dr. B H Doreswamy	Journal of Molecular Structure	2019	1	SJBIT	0
Corrosion behaviour of metal complexes of antipyrine based azo dye ligand for softcast steel in 1 M hydrochloric acid	Dr. B H Doreswamy	Journal of King Saud University Science	2019	20	SJBIT	0
Synthesis and crystal structure studies of 3,3bis(methylthio)1(4(trifluoromethyl)phenyl)prop-2-en-1-one and 3,3bis(methylthio)1(thiophen-2-yl)prop-2-en-1-one de	Dr. B H Doreswamy	Journal of Applicable Chemistry	2018	1	SJBIT	0

rivatives						
Structure and Molecular Modeling Studies of 1, 3DiphenylHPyrazole Derivative as Potential Human Kinase Inhibitor	Dr. B H Doreswamy	Journal of Applicable Chemistry	2018	1	SJBIT	0
2(2Chlorobenzoyl)1(3, 4dimethoxyphenyl)3 iodoquinolin4 (1H)one	Dr. B H Doreswamy	IUCrData	2019	1	SJBIT	0
Impacts of core shell structure on structural and photoluminescence properties of CaTiO ₃ : Sm ³⁺ , Li nanoparticles for solid state display applications	Dr. Jnaneshwara D M	Materials Research Express	2019	21	SJBIT	0
Photoluminescence and photometric studies of low temperature prepared red emitting MgAl ₂ O ₄ :Cr ³⁺ nanophosphors for solid state displays	Dr. Jnaneshwara D M	Journal of Science: Advanced Materials and Devices	2018	12	SJBIT	0
Luminescen	Dr. D L	Journal of	2018	43	SJBIT	1

ce properties of dysprosium doped YVO4 phosphor	Monika	Rare Earths				
Facile self-propagating combustion synthesis of MgO:Eu ³⁺ orange-red nanophosphor and luminescence investigation by Judd-Ofelt intensity parameters	Dr. D L Monika	Optik	2018	46	SJBIT	1
Image enhancement of Wireless capsule endoscopy frames using image fusion techniques.	Dr. K. V. Mahendra Prashanth	IETE journal of research	2018	1	SJBIT	0
An exploration of vHog on Wquartette space for multi face recognition issues	Dr. K. V. Mahendra Prashanth	Advances in intelligent systems and computing	2018	1	SJBIT	1
A vHog tensor Discriminant analysis for small size Face Recognition	Dr. K. V. Mahendra Prashanth	Fourth SIRS'18 Conference	2018	1	SJBIT	0
Peak cancellation in non linear distortion of the OFDM signal	Dr.Nataraj K R	ICECDS	2018	1	SJBIT	0

A survey: Space vector PWM(SVPWM) in 3 ϕ voltage source inverter(VSI)	Dr.Rekha K R	International Journal of Electrical and computer engineering	2018	1	SJBIT	0
Detection of epileptic seizures in EEG inspired by machine learning techniques.	Mahenthesh K	ICICC2019	2019	1	SJBIT	0
Discrete wavelet transform based VLSI architecture for image compression A survey	Dr.Somashekar K	Image Journal on Image Processing	2018	1	SJBIT	0
DeepCNN Architecture for error minimization in Video scaling	Dr. Ravi Kumar A V	IJAER	2018	1	SJBIT	0
An algorithm and architecture for HEVC video compression	Dr. Ravi Kumar A V	IJAER	2018	1	SJBIT	0
An Impact of TimeFrequency Domain Techniques and Neural Networks for Epileptic Seizure Detection	Dr.Mahantesh K	3rd international conference ICEECOT	2018	1	SJBIT	0
Design of a Compact high gain wide band	Anitha P	Fourth SIRS18 Conference	2018	1	SJBIT	0

? shaped Patch antenna on slotted circular ground plane						
Miniaturized single layer ultra wide band patch antenna using a partial ground plain	Anitha P	Jornal: Wireless personal c ommunicati ons	2019	1	SJBIT	0
Moving object detection and tracking using deep learning neural network and correl ation filter	Supreeth HSG	ICICCT	2018	1	SJBIT	0
Efficient multiple moving object detection and recogn ition of taffic signals in videos using neural networks.	Supreeth HSG	Signal image and Video processing	2018	1	SJBIT	4
Fabricatio n And Mechanical Properties Evaluation Of B4c And AL2SIO3 Reinforced Al Matrix Composites	Dr.J Satheesh	Transstell ers	2018	1	SJBIT	7
Studies on FRP composites processed	Dr. Kiran Kumar	Transstell ers	2018	1	SJBIT	4

by alternate post curing methods						
Mechanical Behavior of Nano ZrO ₂ Particulate Reinforced Copper Alloy Composites	Dr. H K Srinivas	IJCER	2018	1	SJBIT	3
Mechanical and Corrosion Behavior of AlNiSiC Metal Matrix Composites by Powder Metallurgy	Dr. .Vitala H R	Materials Today: Proceedings Scienc Direct	2018	1	SJBIT	0
Micro structural Study of Equal Channel Angular Pressing (ECAP) performed and Ultra Fine Grained of Nickel Reinforced Aluminium 7075 Alloy Composites	Dr. .Vitala H R	IOP Publishing	2018	1	SJBIT	0
Studies on FRP composites processed by alternate post curing methods	Shankara . D.R	Transstellers	2018	1	SJBIT	0
Distortion based Privacy Preserved Association Rule Mining	Dr. Mohan H S	AISC, Springer	2018	25	SJBIT	0

without side effects using Closed Itemsets						
Preserving privacy of sensitive itemset using controlled perturbation of closed itemset	Dr. Mohan H S	IJAER	2019	1	SJBIT	0
Fabrication and characterization of cfrp composite laminates with induced discontinuities	Mrs.Chaitra .B.K	Transstellers	2018	1	SJBIT	0
SRHM: Sustainable Routing for Heterogeneous ADhoc environment IOT based mobile communications	Dr. Rekha B	IJACT	2019	1	SJBIT	0
Camera captured kannada handwritten document binarization and segmentation in colour space	Vinod H C	IJITEE	2019	1	SJBIT	0
Characterization of construction and demolition waste aggregates for pavement	Puneeth H C	INDIAN HIGHWAYS, IRC	2018	1	SJBIT	0

quality concrete						
Replacement of Fine Aggregates by Recycled Construction and Demolition Waste in Pavement Quality Concrete	Puneeth HC	Springer Publication	2018	1	SJBIT	0
Characterization of Construction and Demolition Waste Aggregates for Rigid Pavement Construction	Puneeth HC	IJAER	2018	1	SJBIT	0
A Review on Clustering Protocol for Enhancing Energy Efficiency in the Wireless Sensor Network	Pavithra GS	IJRECE	2018	1	SJBIT	0
Identify Important Users in Online Social Network	Dr. Srikanth K C	International Research Journal of	2019	1	SJBIT	0
Restricting The Owner In Sharing The CoOwned Data of Stakeholders	Dr. Srikanth K C	International Research Journal of	2019	1	SJBIT	0
A Novel Scheduler for Task scheduling in Multipr	Nirmala H	IJCSE	2019	1	SJBIT	0

processor System using Machine Learning approach						
Big Data Security Architecture using split and merge method	Archana RA	IJEECS	2019	1	SJBIT	0
Recognition and Classification of Leaf Disease in Potato Plants	Dr. Ajay Prakash BV	Journal of Data Mining and Management	2019	1	SJBIT	0
I3 Bot: Empowering Small and Medium Scale Enterprises with Machine Learning	Dr. Ajay Prakash BV	International Journal of Scientific and Research	2019	1	SJBIT	0
Integrated Intelligent Computing, Communication and Security	Dr. Krishna AN	IICCS	2019	1	SJBIT	0

3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Image enhancement of Wireless capsule endoscopy frames using image fusion techniques.	Dr. K. V. Mahendra Prashanth	IETE journal of research	2018	1	0	SJBIT
An exploration of	Dr. K. V. Mahendra	Advances in intelli	2018	1	1	SJBIT

vHog on Wquartette space for multi face recognition issues	Prashanth	gent systems and computing				
A vHog tensor Discriminant analysis for small size Face Recognition	Dr. K. V. Mahendra Prashanth	Fourth SIRS'18 Conference	2018	1	0	SJBIT
Peak cancellation in non linear distortion of the OFDM signal	Dr.Nataraj K R	ICECDS	2018	2	0	SJBIT
A survey: Space vector PWM(SVPWM) in 3?voltage source inverter(VSI)	Dr.RekhaK R	International Journal of Electrical and computer engineering	2018	2	0	SJBIT
Detection of epileptic seizures in EEG inspired by machine learning techniques	Mahenthesh K	ICICC2019	2019	3	0	SJBIT
Discrete wavelet transform based VLSI architecture for image compression A survey	Dr.Somashekar K	Image Journal on Image Processing	2018	1	0	SJBIT
DeepCNN Architecture for error minimization in Video scaling	Dr. Ravi Kumar A V	IJAER	2018	2	0	SJBIT
An	Dr. Ravi	IJAER	2018	2	0	SJBIT

algorithm and architecture for HEVC video compression	Kumar A V					
An Impact of TimeFrequency Domain Techniques and Neural Networks for Epileptic Seizure Detection	Dr.Mahantesh K	3rd international conference(ICEECCOT)	2018	3	0	SJBIT
Moving object detection and tracking using deep learning neural network and correlation filter	Supreeth HSG	ICICCT	2018	2	0	SJBIT
Efficient multiple moving object detection and recognition of traffic signals in videos using neural networks.	Supreeth HSG	Signal image and Video processing	2018	2	4	SJBIT
Distortion based Privacy Preserved Association Rule Mining without side effects using Closed Itemsets	Dr. Mohan H S	AISC, Springer	2018	2	0	SJBIT

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	2	11	11	62
Presented papers	20	12	1	0
Resource persons	7	4	2	3

3.4 – Extension Activities

3.4.1 – 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 participated in such activities	Number of students participated in such activities
Independence Day	SJBIT	45	60
8th Blood donation camp	SJBIT and BGS Global Hospital and Indian Red Cross Society Karnataka Rotary, Banashankari, Bengaluru.	15	268
Sadbhavana Day	SJBIT	10	103
Kodagu and Kerala. Flood relief	SJBIT	40	120
Voter ID registration and voting awareness program	SJBIT	10	65
Health awareness program	SJBIT, BGS Global Super Speciality Hospital	12	110
Rally programme for protect the women's rights	SJBIT	15	130
NSS Annual Special Camp to Channapatana	SJBIT	4	27
Yoga programme	NSS UNIT SJBIT	8	85
Blood donation camp	Red Cross	1	60
Community Service ASARE	"Sri Satya Bharati" orphanage	11	87
Community Service ASARE	Jeevan Sandhya Trust - Old age home	11	70
Computer training programme	DSR_CSE	16	250

World water day	DSR_CIVIL	27	140
Community service	Krishna Chaithanya Residential Mentally Challenged Children–Halebyrohallly, Kengeri, Bangalore	15	15

3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
India first leadership talk	ONE STAR	MHRD	1000
POC's or Idea competition	Boot Camp	MHRD	80

3.4.3 – 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 participated in such activities	Number of students participated in such activities
MHRD	SJBIT	Antiterrorism day	30	200

3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Internship	35	Management	30
Technical talk	140	IGBC	1

3.5.2 – 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 the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Placement training	Placement training	Ethnotech Academic solutions pvt Ltd, Creative Infotech, NI systems (India) Pvt	01/08/2018	31/07/2019	Students

ltd, Rexroth
Bosch
Group, Knowx
Innovation
Pvt
ltd., Speck
bit, Intel

3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Datalore Labs Pvt Ltd,	25/10/2018	Internship, Workshop, Research Related, Joint collaborative products, Project Development, Faculty development program	35
Toyota kirloskar motor pvt. ltd.	15/07/2019	CoE, Training, Internship, Workshop, Research Related, Joint collaborative products, Project Development, Faculty development program	34

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
156195000	169763941

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with LCD facilities	Newly Added

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
LIBSOFT	Fully	12.0	2008

4.2.2 – Library Services

Library Service Type	Existing	Newly Added	Total

Text Books	30226	11654530	983	446896	31209	12101426
Reference Books	11218	4516670	445	207172	11663	4723842
e-Books	15484	270000	0	0	15484	270000
Journals	78	1059338	0	111686	78	1171024
e-Journals	8611	0	0	0	8611	0
Digital Database	7	0	0	0	7	0
CD & Video	0	0	0	0	0	0
Library Automation	0	0	0	0	0	0
Weeding (hard & soft)	0	0	0	0	0	0
Others (specify)	0	198376	0	53477	0	251853

4.2.3 – 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
No Data Entered/Not Applicable !!!			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MGBPS)	Others
Existing	1639	1136	1136	50	247	23	181	170	2
Added	209	203	209	0	0	6	0	0	0
Total	1848	1339	1345	50	247	29	181	170	2

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

170 MBPS/ GBPS

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
EDUSAT	vtu.ac.in/watch.php

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	Expenditure incurred on	Assigned budget on	Expenditure incurred on
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academic facilities	maintenance of academic facilities	physical facilities	maintenance of physical facilities
51015000	41965572	58425000	51378910

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, provide link)

At SJBIT, the procedures and policies for maintaining and utilizing various facilities are well defined and periodically updated based on the feedback received from the various stakeholders. The available facilities for Curricular and Cocurricular Activities include spacious, wellfurnished classrooms equipped with teaching aids black, White, Ceramic Green board, multimedia projectors, Podium, etc. Technology Enabled Learning Spaces encompass Library, Separate Browsing center for internet access, Departmental libraries, WiFi zones, BoschRexroth center of excellence and SJB Centre of excellence EDUSAT Hall, etc. Seminar Halls in every block are well equipped with modern amenities such as overhead and LCD projectors, audio visual aids such as computer and public address system. Laboratories catering to the VTU syllabus and beyond are established in every department. Facilities are provided for various Sports activities, Outdoor and Indoor Games, Gymnasium, NSS, Cultural Activities, Health Centre, Canteens, Bank, Temple, etc. Feedback Collection The feedback on class room infrastructure, library, labs, canteen, playground, internet facility, etc. is collected in numerous ways at different points of time as detailed below. i. The feedback on facilities is collected from every student every semester. ii. The anonymous feedback is also received through HELP BOX located in each of the academic block. Regarding the feedback Corrective Measures were taken in HODs meeting the corrective actions are discussed and finetuned. Based on Students feedback the following facilities were provided during the last year i. Additional Library working hours. ii. Additional coaching classes were arranged for first year subjects. iii. Extension of Internet Facility, WiFi. iv. Improvement in Academic activities. v. Changes in Hostel Food Menu. vi. Certification programs. vii. Industry visits, formation of student's clubs. viii. Better security mechanism CCTV surveillance. ix. Additional infrastructure facilities expansion etc.

<http://www.sjbit.edu.in>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Meritorious Award, Fee Concession	83	2813760
Financial Support from Other Sources			
a) National	JINDAL, J and K	9	318200
b) International	0	0	0

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
Bridge courses	01/08/2018	66	NPTEL/Swayam/Mooc

Remedial classes	01/08/2018	0	SJBIT
Mentoring Counselling	26/09/2018	215	Dr. C. R. Chandrashekar
Vocational Training Program	04/02/2019	132	Ethnotech Academic solutions

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 for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	CSE: Career Counselling	0	205	0	116
2019	CSE: GRE, TOFEL	205	0	5	0
2019	Mech: Competitive exam awareness session	120	0	4	0
2019	EEE	58	58	0	0

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	Number of grievances redressed	Avg. number of days for grievance redressal
0	0	0

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	Name of organizations visited	Number of students participated	Number of students placed
Mind tree, Global edge, First American, Deltax, Tata consultancy services, SLK software, NoBroker, LT infotech, Infosys, Wipr, Zensar	540	403	HOME FIRST, Fujitech India Ltd., FMT, HVAC Engineer at Kuwiath, INFOTECH HAL, KONGOVI PVT LTD, Indian Navy, Stratogen, ADVENT GLOBAL,	204	95

technologies , Mphasis, NTT data, Cognizant te chnologies, CapGemini, Unisys, Sonata software, Pinclick, IKYA, Advent			Sasken, STELLAPPS, Yokogawa India Limited, Quinnox, Sandvik Asia, Ab stream Techn ologies, ITC infotech, Sapient solu		
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	3	BE	Mechanical	NIT, Uppsala university, sweden, university of Technology, sydney	M.Tech, MS
2019	5	BE	ISE	North Carolina State University	M.S.

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	Number of students selected/ qualifying
GATE	15
CAT	1
GRE	10
TOFEL	2
Any Other	4

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

Activity	Level	Number of Participants
Annual Sports Meet	Intra college	400
Varchasva College Fest	State Level	150
Cultural and Ethnic Day	Intra college	200
Department Tech Fest	Intercollegiate Level	2000

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	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	Runner up	National	1	0	1JB16CS417 ,1JB16CS09 1	Manjunath K, Monish Gowda N
2018	Bronze Medal	National	1	0	1JB17CS431	Shekar A
2019	Bronze Medal	National	1	0	1JB16CV004	AJITH KUMAR RAI
2019	Participated	National	1	0	1JB16EE423	Rakesh M

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

The institution has a practice of identifying student representatives for each class who take part in planning and carrying out various co-curricular and extracurricular activities of the College. Every class has a Class Committee in which member student representatives have various roles to play. The students represent their views in subjects, syllabus and other related issues and problems. Apart from the Class Committees, the College level Student Committees in sports, cultural activities, various clubs, etc. are formed every year with representation of students across all branches. These committees overseen by concerned faculty members are involved in decision making of the various activities for the smooth conduction and also involved in reporting of events.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The Institute has a strong Alumni network which is one of the major sources of publicity. The alumni work in different areas like engineering, business and government organizations. They are entrepreneurs and are pursuing higher studies in reputed institutes or foreign Universities. A number of our alumni have obtained higher qualifications from top universities in India and abroad.

- An Alumni Association "SJB Alumni Association (SJBAA)" was formally registered in 2010.
- Alumni Executive Council Member were nominated officially.
- A savings bank account in the name of "SJBIT ALUMNI ASSOCIATION" was opened in the Canara Bank for the association day to day activities.
- SJBAA Executive council will meet quarterly to discuss the activities to be conducted.
- Invites alumni to have departmental interaction to bridge the gap between academia and industry.
- Alumni meet is being organized every year in a systematic manner

5.4.2 – No. of enrolled Alumni:

6850

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

626000

5.4.4 – Meetings/activities organized by Alumni Association :

Annual Alumni Meet - 01, Alumni Interaction - 28, Alumni Guest Lecture - 6
Alumni Placement Assistance - 1, Alumni Project Assistance 1

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)

SJBIT practices a culture of decentralized governance and participative management. • Various committees at institutional levels and departmental levels are responsible for planning and executing many operational procedures in the institution. • The institution firmly believes that achievement of quality is every employee's duty and everyone in the institution has a stake in contributing towards achievement of excellence. • Every employee at all levels has an opportunity to contribute his/her innovative ideas leading to improved processes and hence higher quality results. • Internal Assessment for students will be conducted at college and also at department level depends on the situation. • Faculty Development program will be conducted at department level. • Workshop / Conferences activities will be conducted at department level.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

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):

Strategy Type	Details
Curriculum Development	The curriculum development is carried out by the affiliating university. However, institute deputed faculty members to the workshops conducted by the university on curriculum development. Further, senior faculty members of the institute are part of BOS in the affiliating university. Also, institute communicates curricular gaps from time to time to the university. Institute had organized seminar, guest lectures and workshops periodically on the latest trends on engineering science and development from industry persons, academicians and researchers
Teaching and Learning	The following strategies are adopted for the effective teaching learning • Appointment of well qualified, competent teachers and providing opportunities for their continuous development through training. • Departmental Academic Calendar • Lecture plans • Course learning Objectives and Course Outcomes • Lecture notes • Updating the library with appropriate books as suggested by the faculty • Upgrading the laboratories to cater for the needs of revised syllabus and new technology. •

Organization of FDPs on pedagogical initiatives. • Students are exposed to topics beyond curriculum and to recent trends and also motivated to inculcate the spirit of lifelong learning. • Remedial classes are conducted for slow learners to bring them on par with other students. • Attainment of course outcomes is assessed, and action plan is proposed to overcome deficiencies/gaps if any. • Internet/WiFi facilities are provided. • Students are also encouraged to visit industries.

Examination and Evaluation

The University assessment done through the semester end examination is principally summative. The three internal tests performance is evaluated in a formative way. The college on its own has evolved a few formative assessment methods to improve student performance viz: • Taking student feedback on the teaching before the first test. This gives information for the teacher to improvise the teaching method. • Motivating the students to build a mini projects and major project of social relevance which will be adjudged by industry experts. This helps students build independent thinking ability. Some of the projects have been converted into product. • Students are asked open ended questions on topics of professionalism, environment and social responsibility of engineering decisions. This helps students to develop their capability to research on a topic individually and present the same. • Teaching / assessment methods such as quiz, pick and speak, group discussion, debate, poster presentation, cross word puzzles, alternate methods of doing prescribed experiments etc. are adopted for some courses to enhance learning experience. The internal test questions are set to map to the course outcomes and program outcomes which are explained to the student at the start of a course. The question paper also addresses the different Bloom's skill levels. This ensures the questions are properly set. Senior teachers of the department check the question paper for quality. The teachers also use a predefined scheme of answers to evaluate the performance. The students have access to the answer books to

	<p>check fairness of evaluation. Each assignment consists of questions on environment and societal effect of engineering decisions which the students research and answer. This inculcates in students independent learning and concern for the environment and empathy for the society.</p>
<p>Research and Development</p>	<p>SJBIT has established Nine VTU recognized research centers to pursue Ph.D. programs across different disciplines. Facilities Journals, reference books, internet, lab facilities are made available to research scholars. Followup IQAC, Doctoral Committee evaluate the research progress and guide the Research Scholars. Scholars, Faculty, Students are encouraged to submit research proposals to funding agencies such as NRB, VGST, AICTE, DST, KSCST, DEITY, SERB, VTU, etc. Incentives Principal Investigators of the sanctioned projects are given incentives for every project sanctioned Academic and administrative support is extended to all the sanctioned projects and associated scholars for successful execution and completion. SJBIT has established Nine VTU recognized research centers to pursue Ph.D. programs across different disciplines. Facilities Journals, reference books, internet, lab facilities are made available to research scholars. Followup IQAC, Doctoral Committee evaluate the research progress and guide the Research Scholars. Scholars, Faculty, Students are encouraged to submit research proposals to funding agencies such as NRB, VGST, AICTE, DST, KSCST, DEITY, SERB, VTU, etc. Incentives Principal Investigators of the sanctioned projects are given incentives for every project sanctioned Academic and administrative support is extended to all the sanctioned projects and associated scholars for successful execution and completion</p>
<p>Library, ICT and Physical Infrastructure / Instrumentation</p>	<p>The Library has an advisory committee consisting of Principal, HODs, Chief Librarian, and faculty member nominated by each engineering department, Basic Science and MBA department. The Advisory committee normally meets twice in a year. It acts as an advisory body</p>

with regard to facilities and services and gives suitable suggestions for procurement of books and other relevant materials for better functioning of the library. The facilities were created on the advice of the Library Advisory Committee and it aims to improve the facility on a regular basis. The power back up, digital library, computers and printers, Internet facility, elearning resources, information display and notification, reprography, etc., are the significant facilities contributing for the userfriendly environment. The library facilitates are ICT enabled for learning and ICT tools are deployed for the efficient use of the library resources. As part of Digital LibraryVTU Consortium, eResources (ebooks and ejournals) are subscribed for the current databases as per the consortium agreement. Computers are made available in the Library premises for the hassle free and easy access of resources by the students and faculty members. Library Software upgraded, Books related to Competitive exams added to the collection, Wifi facility provided in the Library for students to browse information in their Laptops. SwayamNPTEL Local chapter established, and students are encouraged to enrol in these courses. Plagiarism checking tool Turnitin purchased for the benefit of Students.

Human Resource Management

The following strategies are adopted for human resource management •
 • Encourage higher studies/research. •
 • Incentives for research publications. •
 • Seed money for research. The staffs are encouraged to improve their educational qualifications. SJBIT provides library, internet facilities with Computer per faculty, and leave facilities to the staff who are pursuing higher education. Staffs are encouraged to make use of the facilities available in the department and institution like FDPs, Seminars, Guest Lectures, Training programs etc. The requirement for the teaching staff will be placed by Head of the Department before the Principal. Principal in turn by taking the consent from the management the vacancies will be notified in leading newspapers. The notification includes all the details such as the number, designation and qualification etc. The

Resumes would then be sent to the concerned department for shortlisting the candidates. Shortlisted candidates will be called for the interview on specific day. The interview panel consists of Managing Director, Principal, Heads of the departments, Governing council members and subject experts. The selected candidates will then be intimated about their date of reporting to the college with required documents.

Industry Interaction / Collaboration

The following strategies are adopted for industry interaction / collaboration

- Expand invitation to industry experts for lectures on special occasions and involve them in DAB.
- Invite industry experts as adjunct faculty to teach curricular and extra courses.
- Participate in industry organized competitions.
- Facilitate student internships

Admission of Students

The admission process of the college is publicized mainly through website, prospectus, newspaper, magazines, campus management software (CMS). Banners are displayed in the campus giving details of admission to the college. Stalls are set up in Educational fairs to publicize the admissions. However, the majority of admissions have always been through recommendations of alumni, parents, current students and faculty. The Institution is affiliated to Visvesvaraya Technological University (VTU), Belagavi and is approved by the All India Council for Technical Education (AICTE), New Delhi. Hence admissions to all the programs are as per the VTU/AICTE/Govt. of Karnataka norms. All the admissions are approved by the Directorate of Technical Education (DTE), Govt. of Karnataka, and VTU. College admits students through CET, COMEDK, GATE, MAT, GMAT, CAT and Management as approved by Government of Karnataka in line with VTU and AICTE norms.

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

E-governance area	Details
Planning and Development	SIMS - Student Management Information System for follow up of teachers performance, student feedback, courses held during the current and previous semesters, etc. with analysis of

	performance across various departments and entire faculty and students.
Finance and Accounts	Managing of accounts is completely done using tool called "esis ERP". No cash is handled in the institution. Starting from fees paid by the students to payments to the vendors and expenditures of all sort is handled only digitally.
Student Admission and Support	VTU online entry with college database, registration of admission, year of study, parents information, etc.
Examination	Online question paper delivery from VTU, printing with high speed printing, online valuation and online results announcements. Also, online exam form entry, practical marks entry, internal marks entry, etc.
Administration	SIMS - Student Management Information System for follow up of teacher's performance, student feedback, courses held during the current and previous semesters, etc. with analysis of performance across various departments and entire faculty and students.

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
2019	na	na	na	0

6.3.2 – Number of professional development / administrative training programmes organized by the College 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	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Research Workshop		23/01/2019	25/01/2019	30	0
2019	Big Data Analytics IoT		07/01/2019	12/01/2019	56	0
2018	Web Technology its Applications		16/07/2018	18/07/2018	56	0

2018	Machine Learning		09/07/2018	14/07/2018	74	0
2018	CCNA SWITCHING AND ROUTING		23/07/2018	28/07/2018	30	0

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	From Date	To date	Duration
Application of advance power electronics for power system, power quality and electric vehicles	15	15/07/2019	20/07/2019	06
FDP on control systems at GSSS Institute of Technology, Mysuru	3	16/01/2019	19/01/2019	04
Refresher course at DBIT, Bengaluru	2	30/01/2019	31/01/2019	02
Electrical engineering simulations on Eplan, Etap and Orcad software	2	28/01/2019	02/02/2019	05
Recent developments in Solar Wind energy system for On/Off Grid Applications	1	09/07/2019	13/07/2019	05
Workshop on "Deliberating 2018 VTU Scheme Syllabus"	2	25/04/2019	27/04/2019	03
Faculty Development Program in Foundation in AI. DSAI NASSCOM	1	06/05/2019	06/05/2019	01
AICTE workshop on Examination	1	08/05/2019	08/05/2019	01

reforms				
Material characterization by SEM and PXR	1	04/01/2019	04/01/2019	01
Machine Learning and its Applications: Hands on Approach	1	23/07/2019	27/07/2019	5
Machine learning Techniques and Tools	2	17/12/2018	21/12/2018	5
Cyber Security, Network Simulators and Research Challenges in networking	1	21/01/2019	25/01/2019	5
FDP on HR analyticstool to unlock human capital	2	11/07/2019	13/07/2019	3

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
11	0	12	0

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<ul style="list-style-type: none"> • Maternity leave, Study leave, Support to attend training programs, PF, vacation, Free parking facility etc. 	<ul style="list-style-type: none"> • Maternity leave,• Study leaves,• Support to attend training programme,• Provident fund,ESI,• Free parking facility, etc. 	<ul style="list-style-type: none"> • Merit scholarship of Rs.25,000/ will be given to all the students securing highest marks in university examinations., • All students securing Ranks in VTU are awarded gold medals., • sports and cultural incentives, etc., • Fee concession for economically weaker section., • Medical insurance

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

All expenses are incurred with proper approval or sanction. Seed money distributed, registration amount generated, expenses incurred and disbursed in each activity say international conferences, fests, FDPs, purchase of consumables, servicing of equipment, etc. There are no cash transactions. Internal and external financial audits are conducted regularly in the institute

time to time.

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/ Grnats received in Rs.	Purpose
NA	0	0

6.4.3 – Total corpus fund generated

0

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	NAAC, LIC,VTU	Yes	IQAC
Administrative	Yes	LIC, SAS Trust		SAS Trust, GC SJBIT

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

Provided constructive and positive feedback during NAAC visit the parents are helpful in 1. Supported in arranging resource persons for seminars, workshops. 2. Support in obtaining internships, placements, projects, etc. 3. They are part department advisory board (DAB) and give valuable feedback for improving the academic progress.

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

1. NonTeaching workshops CSE/ISE, ECE 2. Refresher course on usage of software tools 3. Technical workshop to conduct lab as per the new CBCS Syllabus

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

1. Construction and addition of physical and IT infrastructure, modernization of existing laboratories and establishing new laboratories in line with industry's requirements. 2. Establishment of Centres of Excellence to provide a platform for training research for both students and faculty. 3. It was decided to apply for NBA accreditation and Working towards accreditation by reinforcing OBE system faculty are encouraged to involve in the NBA processes including evaluation processes to achieve attainment higher levels of course outcomes

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	No
d)NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	One day workshop for	06/03/2019	06/03/2019	06/03/2019	150

	teachers				
2019	NBA Workshop	17/07/2019	17/07/2019	19/07/2019	150

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	Period To	Number of Participants	
			Female	Male
Awareness on sexual harassment laws, Anti-ragging, gender equality relevant laws by Dr. Jayashree, HOD community medicine, BGS GIMS	22/08/2018	22/08/2018	180	365
A talk on importance of self Esteem and life Goals by Dr. Ajay Kumar Singh, IPS (red.) Former DG & IGP, Karnataka state	03/06/2019	03/06/2019	180	370

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
Student Club and NSS units of the institute conduct various environmental awareness programs. Programs conducted during 201819 includes • Environment Quiz program • Tree Planting • Plastic Free Awareness program • 100 of energy demand is met through solar energy.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	0
Provision for lift	Yes	0
Ramp/Rails	Yes	0
Braille Software/facilities	No	0
Rest Rooms	Yes	0
Scribes for examination	Yes	0
Special skill development for differently abled	No	0

students		
Any other similar facility	No	0

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2018	1	1	13/12/2018	1	computer training program for govt. school students	Created Awareness on computer knowledge and explain the role of computers in education to government school students	151
2019	1	1	20/06/2019	1	computer training program	Created Awareness program on computer knowledge to government school students	115
2018	1	1	01/09/2018	1	.Historical place visit	To maintain dustbins	142
2018	1	1	05/09/2018	1	Govt. School visit	Lack of computer knowledge	142
2018	1	1	07/09/2018	1	Orphanage School visit	Shortage of plastic chairs	142
2018	1	1	25/08/2018	1	Kerala and Kodagu Flood Relief Fund	Donation, helping in distress, natural disaster	800

						awareness	
2019	1	1	25/02/2019	7	Annual NSS Camp	Awareness on Environment Protection, Water management and Health and Safety	250

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Orientation on professional ethics and etiquettes	28/01/2019	Oriented to the students every semester beginning by the respective class teachers and the HODs. Not published the hand book so far, will be published from the next academic year

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Blood donation camp	28/08/2018	28/08/2018	550

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

The institute has taken following initiatives to make the campus ecofriendly • Solar panels are fixed on the roof tops of the Building. 250 KW total solar energy generated which is transferred to the electric grid. Use of grid connected solar energy helps to conserve electricity use. • Solar water heating systems are fixed on the roof tops of the hostels to provide all time hot water to the inmates. • Normal light bulbs are replaced by LED/ CFL lamps. • Rain water harvesting is efficiently practiced in the campus Run away water of rains is collected in 5 tanks. • All internal communications of Administration, Office and Departments are done through electronic communication. • Lush green garden boarder by the avenue trees and shrubs helps in Carbon Neutrality • Comprehensive waste management in SJBIT campus • Including awareness programmes on conservation of water under the celebration of world water day • Improvement in the planting the medicinal plants in the campus • Improvement in the quality of recycled waste water effluent • Plastic waste management in the college hostel • Initiatives on controlling CO2 emissions • Energy conservation by adopting solar panel on the roof tops of all the building blocks

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. Inhouse internships Various industries of international repute have established the centre of Excellences at the institution campus providing the right opportunity for the students to get trained in the recent developments of the respective technologies and processes. Inhouse setups will provide access to the industries set up throughout the year. 2. Digital Professional Development All the class rooms are equipped with Apple TV, classroom wifi systems and projectors. Curriculum content are delivered through digital platform using ipads. Various tools of convenience are used in delivering as

well assessing the student learning performance. Digital platform enables the student in quick better understanding the concepts of study also to participate in self evaluations.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<http://www.sjbit.edu.in>

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

SJB Institute of Technology is Accredited by NAAC with 'A' Grade – CGPA of 3.22. According to The ALL INDIA 'DATA QUESTCYBER MEDIA RESEARCH' SURVEY MAY 2015 .<http://www.dqindia.com/indiasbestprivatetschoolsrankedforthefirsttime/> SJBIT is Ranked No. 1 in Karnataka (Amongst VTU affiliated private Engineering Colleges) Ranked No. 5 in South India (Among the Private Engg. Colleges) Ranked No. 14 in India (Among the Private Engg. Colleges) Objectives: • To impart quality education through moral, ethical and social responsibilities in the field of education. • To motivate the students to bring out their creative potential and nurture the spirit of critical thinking. • To facilitate valuebased holistic learning by integrating contemporary and innovative learning practices to match the highest Quality standards. • To equip students with the skills needed to adapt better to the changing global scenario and gain access to multiple career opportunities. • To maintain the stateoftheart infrastructure and signing MOUs with industries and institutes of international repute. • To establish indigenouse Research and Development centers to address the issues and challenges of all the stakeholders. • To enrich the quality of teaching and learning process by adopting innovative teaching methods and be abreast with cuttingedge technologies. Accomplishments: • Winner of National Employability Award2013 and 2014. • The institution has been honored as Excellent Training Placements Institute in Karnataka by VTU, AICTE, CMAI, AIU, Govt of India MNRE / MSME, NELIT, DeITY, NIXI, AIMS, EI at Visvesvaraya Technical University, Auditorium, VTU Regional office, Bangalore on 9th August 2014. • Certified as "Trusted academic partner" by Wipro technology. • Accredited by TATA consultancy services. Research Initiatives: • Institution has established VTU recognized RD center in all the departments. • High bandwidth internet connectivity and WiFi facility is made available for the students and faculty • The library provides access to Ejournal, printed journals, reference material and thus supports the research work of students and faculty. • Besides the above common facilities, Project laboratories and special/advanced equipment laboratories with appropriate software of individual departments helps the research activities to a greater extent. • Institution has established research labs which are availed by the faculty and students. • Each Department has project lab for students • Institution encourages students and research scholars to visit specialized laboratories setup at external industries and Institutions. • Holds institutional membership of various professional bodies such as ISTE, IEEE, CSI, IEI, IIPE, IAENG and ICI. • The institution has signed MOU with Emc2, Arm Processor, FOSSEE, IIT Bombay, Nihon Communication Solutions Pvt.Ltd, BGS Hospital, Vinayaka Network Gurukula, Ethnotech Academic

Provide the weblink of the institution

<http://www.sjbit.edu.in>

8.Future Plans of Actions for Next Academic Year

1) To get program level accreditation from NBA 2) To strategies and further embrace the Digital Professional Development completely and follow the digital

mode of teaching, learning and evaluation methods.