SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

SRINIX COLLEGE OF ENGINEERING

AT-RANIPATNA PO-BALASORE
756001
www.srinix.org

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

July 2022

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

The Srinix College of Engineering, Balasore (SCE) was established in the year 2009 by a group of visionaries and intellectuals to impart quality education in a stimulating and innovative environment where students are empowered with knowledge and professional skills while upholding the values of integrity, tolerance and mutual respect. Since its inception, the SCE promoted education in the area of technical education as an undergraduate program.

The motto of the institution, with courage and faith underlies all our endeavors. In keeping with the fundamental ethos of the initiation and establishment of the Institute of the technical education learning in the country.

SCE is on its path to achieve academic excellence towards technical education so that it becomes a prominent institution and contribute in the process of nation building.

Vision

Vision of the Institute: The vision of the Institute is to impart national standard technical education at an affordable price through highly qualified and experienced faculties providing of academic conducive environment & making employable through various means to its student, who can be ultimately technically superior, ethically strong so as to place its position safe in the society.

Mission

Mission of the Institute: The mission of the institute is to implement and achieve the goal projected in the vision of the Institution in a time frame manner through meticulous effort using best available technology & continuous assessment with stringent measure.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- The strength of the institution is its teaching learning system, well qualified experienced faculty, Best state of the art infrastructure, well disciplined and hard working students, well trained support staff.
- Ragging free and Tabaco free campus.

Institutional Weakness

- Quality of the intake is to be improved.The potential for academy-industry linkage should be exploited more.

- Girl students need to be encouraged to participate more in extracurricular activities.
- Multiplicity of Educational Institutions.
- More re-organization of faculty members in a pressing requirements.

Institutional Opportunity

- There are a lot of opportunities for qualifying in all India entrance examinations, placement, research publications and conduct of more number of seminars/conferences/workshops.
- The institute is working hard to motivate its faculty members to involve in research and publications in the journal of repute.
- To introduce on the high-end on job training programs.
- To achieve institutional excellence through IOAC activities.

Institutional Challenge

- The challenges are to increase the success rate in all India examinations, i.e., GATE, getting opportunities in public sector, joining higher education etc.
- Empowering our SC/ST and women students to thrive in a more globalized and competitive environment.
- Balancing the need to serve the requirements of the local rural community with the need to train students to compete nationally and globally.
- Developing consultancy activities.
- Hoisting more number of seminar and conferences.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Effective curriculum delivery process is in place in the organization for academic excellence and to get placements or to pursue higher studies. Courses of the curriculum are allotted to faculty, based on their field of expertise and interest well before the start of the semester by the Head of the Department. Before the commencement of semester, academic committee meeting is convened by the coordinator of the academic committee in which the committee decides the modalities. The university provides the syllabus with evaluation schemes and course objectives for every course. The prerequisite, course outcomes and programme outcome mapping, books to be referred, methods of instructional delivery are documented and this road map is approved by the principal. After the subject allotment individual faculty prepares his/her lesson plan, lecture notes & probable question and answers, assignment questions which are normally approved by the IQAC in consultation with the head of the department. At the start of the course, faculty highlight to the students on the course objectives, outcomes of the course, contents of each unit and its applications in the related domain. In addition to traditional teaching methods, video lectures, NPTEL lectures, power point presentations, projects, case studies, etc are being conducted in the class room. Interactive learning is appreciated during the lecture classes and peer teaching is adopted by the students for improvement in the teaching learning process. Students' feedback about the portion coverage as per the lesson plan and suggestions for the improvement in

teaching and learning process are taken in every month by the principal and management by calling 3-4 students from every section. Guest lectures and Industrial visits are arranged to have industry exposure. The assessment of the course is done by assignments, two internal tests and surprise tests. In order to bridge the gap in course outcome & course delivery, workshops and value added courses are conducted on regular basis on current topics as per the choice of students to enhance the technical skills. In laboratory courses, the objectives and outcomes of the laboratory experiment is discussed in the first session and hands on session of all the experiments is facilitated by the faculty. Students are encouraged to take part in mini projects to implement the conceptual learning of the curriculum. At the end of the course, Students Satisfaction Survey is made by the college on the teaching process, delivery methods and the level of understanding of each unit in that course. Course outcome evaluation is carried out based on all internal tests, assignments, seminars, activity based learning methods etc. Students are encouraged to participate in NSS and other social activities so as to enable them to be socially responsible citizens.

Teaching-learning and Evaluation

The faculty in SCE has a balance in teaching and research. However, in departments where substantial numbers of students are from socially weaker sections of society, more emphasis is given on teaching and skill development to make them employable. Students who studied in a regional medium are provided free coaching to improve their written and spoken english skills. Teachers combine traditional teaching methods with use of modern teaching aids. Faculties prepare lesson plans and also maintain lesson progress register, which is verified by the respective HOD weekly and by IQAC monthly once. Faculty members participate in the orientation and refresher courses to upgrade their pedagogical skills. Feedback is obtained from students to ensure that teaching is student-centric. The Internal Quality Assurance Cell conducts quality audit and conducts programmes for improving the quality of teaching. Remedial classes are organized for the weaker students to cope up with the main stream. ICT is used to ensure 24x7 learning environment. In addition to the core courses, the students are enrolled in programmes under the Choice Based Credit System (CBCS) and are also offered a range of optional courses, both within their respective departments as well as in other departments. To cultivate broad intellectual outlook, students are required to enroll for extra course related to their major area of study. The Evaluation process is transparent. Students are evaluated in a continuous assessment system, comprising internal examinations, seminar presentation and assignments. Students can peruse the valued answer scripts for the internal tests, and provision is being made to enable perusal of answer scripts of the final examinations. The final examination scripts are valued by examiners deputed by the university. Use of Barcode answer sheets for semester Examinations by the University and online entry of marks of the end-semester examinations has hastened the evaluation process besides rendering the system tamper proof.

Research, Innovations and Extension

The Institute has three members Research Committee comprising of senior faculty members who are deeply involved in research. Faculty members of the Institute are also recognized as supervisor/co supervisor by the BPUT, Odisha to carry research work leading to PhD degree. Faculties and students are encouraged to incorporate research culture and data analysis work and class assignments. They are also encouraged to write term paper and joint research with faculty members. Students present their papers at national and international conferences. Students are motivated to do live projects with professional bodies and industrial houses.

The management of the institution has already initiated motivational schemes for publication in referred journals by the teachers. Some faculty member has come out with flying colours to get the reward amount for

publications.

In order to promote research activities, the Institute has very enriched library. The library subscribes research journals, periodicals and e-journals to interact in undertaking interdisciplinary research to cater to the needs of various departments. Application software's, databases are also available in the library. Library facilities are optimally utilized by the faculty in their research. The budget provides a provision for expenses on research activities such as paper presentation in National/International conferences & attending FDPs etc. The researchers are encouraged and inspired to undertake quality research in emerging area and are sent to different national/international forums. The registration fee and travel expenditures are borne by the institution/reimbursed to the faculty members.

Faculty members are rewarded financially and it adds to their contribution for the overall development and growth of the institute.

The institute has been promoting the participation of students and faculty in extension activities by organizing: Blood donation camp, cultural competitions, sports events, plantation, awareness camp, cleanliness drive, women empowerment, helping cyclone and flood victims every year. Providing financial assistance to needy students is a regular feature of this institute. The institute has been awarded by the Red Cross & Engineers Forum for organizing blood donation camps.

Infrastructure and Learning Resources

The development and augmentation of infrastructure is an ongoing process keeping in view the needs for up gradation and addition in consonance with the changes in the syllabus. Modern gadgets and infrastructure has been added in the entire laboratory as per requirements. Recently all required equipment/assets like LCD Projectors, Computer Labs, Skill development rooms, Auditorium, Library, Canteen, Common rooms for girls, Safe drinking water facilities etc are made available as per requirement. ATM and Bank facilities are available outside the campus (College given space and building to Bank of Baroda on rent). The institute library is having 15325 numbers of books and 1371 titles. The Library is divided into different sections: Digital Library, Reading Hall, Periodical/magazine/Journal cum CD Section for accessing e-resources & Circulation Counter. Based on the requisitions/recommendations received from the faculty and students, the Library Committee takes decision for the purchase and use of current titles, important journals, E-journals and other reading material. The library services are fully computerized as the routine work of Issue and Return of books is being done online with the help of appropriate software. The library has remote access to e-publications through J-GATE, IEEE, and DELNET. The Institute has well furnished hostel facility for boys and girls separately. Recreational facilities like gymnasium, yoga center along with sports facilities like cricket, foot ball, volleyball, basket ball, badminton etc are available in the campus. Computer facilities including access to internet with wifi are also available 24x7 for the hostel inmates. The Institute provides medical facilities such as regular visits of the male and female doctors. A Medical room is in place in the campus with first aid facilities. Staff members are covered under ESI.

IT- Infrastructure:

The State of arts computing facilities are available (hardware and software) at the institution. The available computing facilities are of the best quality. There are five Computer labs with 160 computers with internet facility, printers, software's, and data base. Dedicated Lease-line of 300 MBPS (BSNL) and 50MBPS (Sai Internet) bandwidth with Wi-Fi networking caters to all the Computer Labs and whole campus of the college.

To assist the comprehension and learning process in teaching methodology, effective modern ICT resources like LCDs are used as computer -aided teaching materials for the dissemination of knowledge and teaching in the classes. The students are also encouraged to use these devices while making their presentations. The regular maintenance and upkeep of the infrastructure facilities and equipment is done through local vendors and by our staff and technicians. For upkeep and maintenance, the service of an electrician, a plumber and other technicians are available in the Institute. UPS and Solar energy have been provided at various locations as per the requirement. For uninterrupted supply of electricity the Institute is having generator of capacity 45KVA. There are three buses and one Bolero for conveyance facilities of the students. Following are the innovations/best practices in 'Infrastructure and Learning Resources. The college has one auditorium hall of capacity 300 hundreds and a conference room equipped with all modern facilitates. LCD Projectors are available in some class rooms with Internet connectivity through Wi-Fi. Two skill development class rooms with 60 capacities each having projector, white board and internet connectivity are in use for the students.

Student Support and Progression

The Institute publishes its updated Information Bulletin, Teachers hand book and Students handbook every year as per requirement. The Institute also provides the detailed syllabus of all the subjects and teaching plan along with case studies and evaluation criteria, pedagogy and suggested reading to the students well in advance so that they come prepared for class. Assistance for applying scholarship of SC/ST/SEBC/OBC/Minorities students is being provided by the institute to get it from state Government and central Government every year. Special training sessions on different modules in the area of demand are conducted as per the company/industry requirement. Skill development for soft skills, Computer literacy, Personality Development Programmes, English language and Advanced software languages like, C++, Python, advance JAVA etc are imparted for the students. Extra classes, and tutorials are arranged for the below average students who are the slow learners. Workshops and certification programmes in different functional areas are conducted for the students. Industrial trips, expert lectures from industry/corporate/academics/R&D are carried out every year. Alumni Talks, workshops, seminars/conferences, Group Discussion, Industry - Institute linkage program are conducted regularly. Special mentor sessions are conducted by the faculty members to guide the students in career counseling. There is a strong mechanism of handling the grievance through different committees. The Institute has constituted Committees like Women harassment cell, student's grievance cell, SC/ST grievance cell, anti ragging committee etc. In addition, the Institute has constituted a committee to check 'sexual harassment of women at work places' under the direction of Government of Odisha. Provision of financial support to the sports persons at district level and above are available in the college to promote sports. SCE organizes programmes like literacy camp, cleanliness drive, tree plantation etc. Celebrations of festivals like Lord Ganesh Puja, Saraswati puja, Biswakarma Puja, Teacher's day etc are conducted in the campus. The SCE has a registered Alumni Association consisting of ex-students as its members. Aluminiee meets are organized and Aluminiee are invited to share their experiences with students. The suggestions regarding academic, infrastructure and placement given by the Aluminiee are implemented from time to time. We have a placement and training cell, which assists the students to secure placement by arranging job interviews and examinations by private and multinational companies in India. The Centre also extends counseling services to the students by periodically organizing personality development programmes. Information about admissions in higher educational institutions and different job fairs and openings in various sectors is provided to students by displaying it on notice boards. Students are guided and encouraged to pursue higher education by their respective departments. Further, our students participate in varieties of cultural activities like play, choreography, Rock dance, western singing, skits etc. There is a very active participation in other events like quiz competitions, debates, fashion shows etc in Inter-Institution and on national level events.

Governance, Leadership and Management

The Governing body is the highest decision making and policy making bodies of the institution. It normally seats once in a year before the commencement of academic year, i.e., in the month of April or May. The Governing body consists of 13- members having expertise from all required areas like, Educationist, Academician, Industrialist, R&D, Administration and representatives from the affiliating University & state Government. The annual budget and policy for the next year is decided and subsequently implemented by the principal with the support of the management. Developments of Infrastructure, Staff requirement, Result analysis, placement, Innovation in teaching, changes in service rules if any are effectively implemented by the management.

The management of the institution makes continuous development & runs in a well established manner. The principal is the administrative head of the institution. He coordinates, directs, supervises and controls as the head of administrative, academic, developmental and other allied activities of the institute. He plays a positive and creative role for the overall development of the institution. Active participation of employees & regular interaction & consultation with departments make decision making process more scientific and transparent.

The Institution has constituted several committees to enhance the performance in all the areas of importance and all the committees are given sufficient autonomy to plan and execute the same in time. All the coordinators disseminate policies with their members and implement the same completely in a decentralized manner within norms of the institutions. All those activities of the committees are monitored by the Principal as head of the institutions. The management of the institutions informed/suggests the principal about the objectives of the management time to time and the same is implemented through different committees.

Institutional Values and Best Practices

Education is fundamental for achieving human potential, developing an equitable society and promoting national development. Owing to the effective planning & execution of academic policies of the institution we are successful in the University results. Achievement of above 90% result has proved the collective efforts made by the staff members of the institution.

Teachers engage student in long term learning by combining technology with traditional mode of instruction. College uses Information and Communication Technology (ICT) in education to support, enhance, and optimize the delivery of education.

Skill development & training are provided to the students of 3rd year & 4th year in Soft skill, department technical subjects, Reasoning, Aptitude and English. Specific trainers for soft skill and aptitude, Reasoning and English are appointed to enhance the employability skill of the students. The Institute does not collect any fees from the student on training heads even though the institute is having the lowest tuition fees in the state.

One time issue of library books for all subjects in a semester is a unique feature of this institute. Students get their books at the starting of the academic semester and returned the books only after completion of the University examinations. Reference books are also available in the library to refer more number of authors in any subject on daily basis. E-books & E-journals are also available in the library for the students and staff to enhance their knowledge in teaching & research.

Mentoring is a strategy to provide students with emotional and instrumental support they need to achieve

leaning goals in the context of higher education in educational institute. Mentoring provides a reliable and comprehensive support system, to motivate students to excel in both academic and non-academic make fields and to the most of their life at the college.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	SRINIX COLLEGE OF ENGINEERING
Address	AT-RANIPATNA PO-BALASORE
City	BALASORE
State	Orissa
Pin	756001
Website	www.srinix.org

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Yashobanta Kumar Mohanty	06782-261052	8327765615	-	principal.srinix@gmail.com
IQAC / CIQA coordinator	Biswaranjan Champatiray	-	7846852502	-	brchampatiray@gmail.com

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details	
Date of establishment of the college	12-06-2009

University to which the college is affiliated/ or which governs the college (if it is a constituent college)		
State	**University name**	**Document**
Orissa	Biju Patnaik University of Technology	[View Document](#)

Details of UGC recognition		
Under Section	**Date**	**View Document**
2f of UGC		
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	**Recognition/Approval details Institution/Department programme**	**Day,Month and year(dd-mm-yyyy)**	**Validity in months**	**Remarks**
AICTE	[View Document](#)	01-07-2021	12	

Details of autonomy	
Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	**Address**	**Location***	**Campus Area in Acres**	**Built up Area in sq.mts.**
Main campus area	AT-RANIPATNA PO-BALASORE	Urban	10.01	26808

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	**Name of Programme/Course**	**Duration in Months**	**Entry Qualification**	**Medium of Instruction**	**Sanctioned Strength**	**No.of Students Admitted**
UG	BTech,Mechanical Engineering	48	AFTER PLUS TWO SCIENCE AND DIPLOMA	English	120	27
UG	BTech,Computer Science And Engineering	48	AFTER PLUS TWO SCIENCE AND DIPLOMA	English	90	86
UG	BTech,Civil Engineering	48	AFTER PLUS TWO SCIENCE AND DIPLOMA	English	60	12
UG	BTech,Electrical Engineering	48	AFTER PLUS TWO SCIENCE AND DIPLOMA	English	60	17

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0				0				0
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit				0				0				0
Sanctioned by the Management/Society or Other Authorized Bodies				0				6				60
Recruited	0	0	0	0	6	0	0	6	40	20	0	60
Yet to Recruit				0				0				0

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				15
Recruited	14	1	0	15
Yet to Recruit				0

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Technical Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				22
Recruited	21	1	0	22
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/ LLD/DM/M CH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	3	0	0	0	0	0	3
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	2	0	0	36	14	0	52
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers									
Highest Qualificatio n	**Professor**			**Associate Professor**			**Assistant Professor**		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/ LLD/DM/M CH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers									
Highest Qualificatio n	**Professor**			**Associate Professor**			**Assistant Professor**		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/ LLD/DM/M CH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	5	6	0	11
UG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	**Male**	**Female**	**Others**	**Total**
	0	0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	116	3	0	0	119
	Female	23	0	0	0	23
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Category		**Year 1**	**Year 2**	**Year 3**	**Year 4**
SC	Male	61	92	89	105
	Female	14	17	24	22
	Others	0	0	0	0
ST	Male	12	43	76	65
	Female	15	16	23	27
	Others	0	0	0	0
OBC	Male	39	33	26	29
	Female	14	1	5	9
	Others	0	0	0	0
General	Male	67	70	102	129
	Female	11	13	11	13
	Others	0	0	0	0
Others	Male	41	21	10	8
	Female	7	7	5	2
	Others	0	0	0	0
Total		281	313	371	409

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	The curriculum of the course is designed by the affiliating University (BPUT, Rourkela) and is implemented by the institute. Keeping in mind the requirement of the employer, the institute provides

	flexible and innovative add on courses on different subjects. The institute invites experts from different areas like Technical, Basic Sciences, and Ethical values for training and motivation of the students. The Institute provides skill development training to all the students of all the disciplines and specific soft skill training by trainer which is multidisciplinary and inter disciplinary.
2. Academic bank of credits (ABC):	As per the existing norms of the affiliating University and AICTE, New Delhi multiple entries up to 2nd year is permitted (Lateral entry category). The modalities of leaving/exit the institute have to be framed by the University as per NEP 2020, as University is the certificate issuing authority. The faculty members are in practice of using different ICT tools/ pedagogical approaches for taking classes. Study materials, assignment questions, probable question and answers are prepared by the faculty members and distributed to the students through using intranet (College website) for consumption. Teachers download the question banks of different company and give it to the students for practice, which increases the confidence level of the students.
3. Skill development:	a)The Institution has made its efforts to strengthen the vocational education and soft skills of students in alignment with National Skills Qualifications framework. The Institution has made a policy to provide at least one vocational training to all its students as per their choice. The following vocational courses have been given by the institute to its students. b)-i) Soft skill training in Web designing and Python (beyond syllabus): Specific trainer having expertise and industrial experience in the above areas has been recruited on a full time basis and the present 8th semester students have been trained to made them employable in the software industry. The duration of the course was 4- months. A group of 45 students from Computer Science & Engineering, and Electrical engineering participated in the course and completed successfully. ii) Vocational training to Civil Engineering Students on Planning & estimation: Experts from local civil engineering farms (name of the farm) have been invited to train the civil Engineering students in the above areas. Two months training course was conducted by the department for its final year students. A group of 27- students participated in the training ad completed it

	successfully. iii) Vocational training in Auto CAD and CAM : The students of Mechanical Engineering have been trained in the Auto CAD & Cam by the expert trainer invited from CIPET, Balasore for duration of 25-days. After the completion of course a test was also conducted by the CIPET, Balasore and all the 31 students completed the course successfully.
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	Srinix College of Engineering, Balasore is a Technical Institute and all its subjects have been taught in English only. Teaching in regional language is a policy matter of the Government of India and Odisha. Every year institute organizes Annual functions, Technical events in which Indian culture and traditions are given priority.
5. Focus on Outcome based education (OBE):	Keeping in mind the government policy, i.e., NEP 2020, apart from effective curriculum implemented by the University, Institution also giving importance on the outcome based education. Different short term training programmes, workshops and projects have been conducted by the departments to increase the effectiveness of the students in various areas.In strict compliance with the objectives of Outcome Based Education (OBE), the Program Outcomes (POs), Program Specific Outcomes (PSOs) and Course Outcomes (COs) are framed by the department offering the concerned program after rigorous consultation with all faculty and the stakeholders. After attainment of consensus, the same are widely propagated and publicized through various means.
6. Distance education/online education:	The Institution can provide online/offline vocational courses through ODL mode. Courses like BBA, BCA, MCA, training on lathe machines, repairing of electrical machines, planning and estimation of buildings etc under distance education category can be conducted by the Institute. Evening classes can also be conducted for people who are employed locally.

Extended Profile

1 Program

1.1

Number of courses offered by the Institution across all programs during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
296	296	296	200	204

File Description	Document
Institutional data in prescribed format	View Document

1.2

Number of programs offered year-wise for last five years

2020-21	2019-20	2018-19	2017-18	2016-17
5	6	6	6	6

2 Students

2.1

Number of students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1046	1113	1167	1085	966

File Description	Document
Institutional data in prescribed format	View Document

2.2

Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
241	191	226	226	244

File Description	Document
Institutional data in prescribed format	View Document

2.3

Number of outgoing / final year students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
298	240	292	279	274

File Description	Document
Institutional data in prescribed format	View Document

3 Teachers

3.1

Number of full time teachers year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
50	51	43	43	48

File Description	Document
Institutional data in prescribed format	View Document

3.2

Number of sanctioned posts year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
66	66	78	58	73

File Description	Document
Institutional data in prescribed format	View Document

4 Institution

4.1

Total number of classrooms and seminar halls

Response: 27

4.2

Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
312.3607	207.4278	250.1641	317.3938	302.8512

4.3

Number of Computers

Response: 216

4.4

Total number of computers in the campus for academic purpose

Response: 203

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum delivery through a well planned and documented process

Response:

The college ensures effective curriculum delivery through its consistent efforts. The college prepare the academic calendar at the commencement of the academic year. The teachers prepare their individual lesson plan & lesson progress as per the academic calendar. The college teachers follow the lesson plan in the schedule of their working hours. The syllabus is divided in the number of hours in which each teacher is supposed to complete the course. The periodic tutorial / class test / examination are conducted in order to assess the understanding of the students. The examination results are reviewed by the principal & management. Teachers take best of their efforts to ensure quality and to enhance academic growth. The college teachers use PPT for elaborating principle concepts in the technique and discussion. Completion of the curriculum is verified by the Head of the Department and the review is also taken by the principal and management separately. The end semester examination result or the performance of the students is verified by principal. The examination pattern prescribed by the University is strictly followed by the college. The transparency in examination is followed by the college. The course completion is the sole responsibilities of the faculty member which is achieved by the college. Action taken report on course completion is prepared by concerned committees and the same is reviewed by the principal and academic in charge of the management for timely action and achievement of academic goal of the institution.

File Description	Document
Upload Additional information	[View Document](#)

1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

Response:

Before the commencement of each semester, University notifies an academic calendar for all the programs, which contains the date of commencement, last working day of the semester, Internship schedule and dates for end semester examinations.

Srinix College of Engineering (SCE) follows the calendar issued by the University strictly and plans all its activities including the conduct of Continuous Internal Evaluation (CIE). The institute prepares an institution level academic calendar and every department strictly follows it. Institute calendar includes total number of academic working days, holidays, CIE dates and dates for the Institute's flagship programs. The department calendar comprises guest lectures, workshops, and industrial visits, other co-curricular and extra-curricular activities. The academic activities, CIE, and all other activities are conducted in adherence to the calendar. The academic calendars help faculty members to plan their respective course delivery

research work academic and co-curricular activities. Department heads closely supervise and monitor the completion of the syllabus as per the lesson plan prepared by faculty members.

Syllabus coverage for each CIE is decided well in advance and faculty members adhere to it. Internal Assessment tests (IA), assignments, quizzes, and seminars are part of the Continuous Internal Evaluation (CIE) of students. There is a well-defined process for the conduct of CIE as per the academic calendar. The course instructors prepare IA question papers based on the revised Bloom's Taxonomy along with the scheme of evaluation, reviewed by the stream coordinator and approved by the department Head. The internal assessment timetable prepared by the examination committee is published to stakeholders, and conducted as per the schedule. Post IA tests, evaluation of answer scripts, and calculation of CO-PO/PSO attainment are carried out by respective Course Instructors.

Continuous evaluation and assessments are also made for laboratory course, project work, seminars and internships. Conduct of laboratory experiments and viva, Submission of records are the major components of laboratory course evaluation. As per the laboratory rubrics, the internal test is conducted at the end of the semester.

The Principal, through the academic committee meetings, frequently reviews the semester's progress and provides suitable suggestions. In case of revision of academic calendar by the university, institute incorporates the necessary changes accordingly.

File Description	Document
Upload Additional information	View Document

1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years

1. **Academic council/BoS of Affiliating university**
2. **Setting of question papers for UG/PG programs**
3. **Design and Development of Curriculum for Add on/ certificate/ Diploma Courses**
4. **Assessment /evaluation process of the affiliating University**

Response: B. Any 3 of the above

File Description	Document
Institutional data in prescribed format	View Document
Details of participation of teachers in various bodies/activities provided as a response to the metric	View Document

1.2 Academic Flexibility

1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

Response: 20

1.2.1.1 **Number of Programmes in which CBCS/ Elective course system implemented.**

Response: 01

File Description	Document
Minutes of relevant Academic Council/ BOS meetings	View Document
Institutional data in prescribed format	View Document

1.2.2 Number of Add on /Certificate programs offered during the last five years

Response: 3

1.2.2.1 **How many Add on /Certificate programs are offered within the last 5 years.**

2020-21	2019-20	2018-19	2017-18	2016-17
00	00	01	01	01

File Description	Document
Institutional data in prescribed format	View Document
Brochure or any other document relating to Add on /Certificate programs	View Document

1.2.3 Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years

Response: 2.39

1.2.3.1 **Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
00	00	62	55	15

File Description	Document
Details of the students enrolled in Subjects related to certificate/Add-on programs	[View Document](#)

1.3 Curriculum Enrichment

1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum

Response:

Srinix College of Engineering (SCE) effectively integrates cross-cutting issues relevant to gender, environment and sustainability, human values and professional ethics and leads to a strong value-based holistic development of students. Various activities are organized throughout the year as part of the curriculum that helps in this noble endeavour.

1. Gender Sensitivity

Gender related courses are an integral component of various programmes. Students are sensitized and encouraged to work towards gender equity from a cross-cultural perspective. Free counselling services are provided through a Counselling Cell. Gender sensitization camps are organized in slums and rural areas of Balasore district that include, women's rights, human rights, child rights, gender justice and gender equality. Compulsory core courses along with the wide range of community outreach programmes that include health and hygiene camps exposure to real life situations. SCE annually organizes seminars, conferences & guest lecturers activities that help in gender sensitization.

2. Environment and Sustainability

SCE's strong community orientated work culture is based on the Sigma-Six Q sustainable way of life that involves integration of water quality, air quality, education and healthcare, practices, innovation and human values. SCE has pioneered vocational and skill development education by introducing UG programmes in Water, Sanitation and Waste Management, Renewable Energy, Agriculture and Environmental and Green Technology. A compulsory core course on Environment studies is included in all UG programmes. Environment awareness camps, seminars, workshops, guest lectures, industry visits and field excursions are organized.

Environment Day, Earth Day and Water Day are annually celebrated. SCE accords great importance to research in inter-disciplinary areas focused on renewable energy, environmental pollution and healthcare.

3. Human Values and Professional Ethics:

The curriculum has the following compulsory core courses in all UG programmes specially focused on the development of human values and professional ethics:

1. **Scientific Methodology, General Knowledge and Current Affairs:** (to nurture a scientific temper and be aware of contemporary developments).

2. **Social Service:** NSS does different activities
3. **Co-curricular Activities** (for all-round development of personality)
4. **Environment Studies** (for environment consciousness and its impact on everyday life)

File Description	Document
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View Document

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

Response: 0.61

1.3.2.1 **Number of courses that include experiential learning through project work/field work/internship year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
04	00	05	00	00

File Description	Document
Institutional data in prescribed format	View Document

1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year

Response: 25.72

1.3.3.1 **Number of students undertaking project work/field work / internships**

Response: 269

File Description	Document
Institutional data in prescribed format	View Document

1.4 Feedback System

1.4.1 *Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2)Teachers 3)Employers 4)Alumni*

Response: B. Any 3 of the above

File Description	Document
Any additional information (Upload)	[View Document](#)

1.4.2 Feedback process of the Institution may be classified as follows: Options:

1. **Feedback collected, analysed and action taken and feedback available on website**
2. **Feedback collected, analysed and action has been taken**
3. **Feedback collected and analysed**
4. **Feedback collected**
5. **Feedback not collected**

Response: B. Feedback collected, analysed and action has been taken

File Description	Document
Upload any additional information	[View Document](#)

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average Enrolment percentage (Average of last five years)

Response: 94.9

2.1.1.1 **Number of students admitted year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
281	313	371	409	397

2.1.1.2 **Number of sanctioned seats year wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
330	330	390	390	420

File Description	Document
Institutional data in prescribed format	[View Document](#)

2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)

Response: 97.52

2.1.2.1 **Number of actual students admitted from the reserved categories year wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
155	202	243	257	235

File Description	Document
Institutional data in prescribed format	[View Document](#)

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

Response:

The Institute takes step to develop equally all the students taken admission in to B Tech programme. Generally students join the course as 4-year degree programme after passing 10+2 examinations through an entrance examination (OJEE/JEE) and 3- year course after passing Diploma education as lateral category after appearing OJEE.

At the beginning of the session we conduct one test for the newly joined students of 1st & 3rd semester separately & as per their performance, we categories them in to two groups, i.e., **slow learner** (less than 50% mark) and **advanced learners** (above 50% marks). After separating them in to two categories we plan accordingly to develop them.

Slow learners: The following steps have been taken for the slow learners:

1. Extra doubt clearing classes
2. Guidance through proctor
3. Supply of study materials
4. Training in Reasoning, Aptitude, English by outside trainer

Advanced learners: The following steps have been taken for the advanced learners:

1. NPTEL course
2. Motivate to participate outside college seminars/conferences, Projects, Competitions
3. Specific soft skill training by external /Internal teachers
4. Guidance through proctor

2.2.2 Student- Full time teacher ratio (Data for the latest completed academic year)

Response: 20.92

2.3 Teaching- Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Response:

Srinix College of Engineering always emphasizes experimental learning and applied course through different methodologies in teaching and learning process:

Experimental learning:

1. Teachers teach with different models both in theory and Lab classes.

2. All the Practical classes are only experimental basis. Students perform their experiment, find the result and analyzed them.
3. Workshops are conducted on regular basis in which both theory and practical are done.
4. Minor and Major projects (both experimental and soft ware projects) are done by the students and are monitored by the faculty members.

Participative Learning:

Students are encouraged to participate in:

1. Seminar paper presentations in the presence of department faculty members and invited guest are conducted on regular basis for all the students.
2. Students are initially trained by the expert trainer and rigorous practices are done for group discussions.
3. Quiz competitions, Debate competitions among students both inter college and Intra College is conducted on regular basis.

Problem solving abilities:

1. Skill development training classes are conducted regularly in Aptitude, Reasoning & English in order to make the students employable
2. Specific trainer is engaged for teaching, coding in soft ware languages, as per the demand of the present day Industry.

2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

Response:

It is essential for the students to learn and master the latest technologies in order to fit for corporate house. As a consequence, teachers are combining technology with traditional mode of instruction to engage students in long term learning. College uses Information and Communication Technology (ICT) in education to support, enhance, and optimize the delivery of education. The following tools are used by the faculty in the Institute:

ICT Tools:

1. Projectors available in different classrooms

2. Desktop and Laptops- Arranged at Computer Lab and department staff room in the campus.

3. Printers- installed at Office, Admission section, Establishment section, Accounts section, Examination section, Principal &HOD Cabins.

4. Photocopier machines – Machines for taking photo copies are available at all prominent places like Examination section, Library, and Establishment section in the institute.

5. Scanners- Multifunction printers with scanners are available at all prominent places.

6. Seminar Rooms- Three seminar halls are equipped with all digital facilities.

7. Online Classes & examinations conducted through Zoom, Google Meet, Microsoft Team and Google Classroom)

8. MOOC Platform (NPTEL)

9. Digital Library resources – Library is automated, Teachers and students can search books without going to the library.

Use of ICT by Faculty

A. PowerPoint presentations- Faculties are encouraged to use power-point presentations in their teaching by using LCD's and projectors. They are also equipped by digital library, online search engines and websites to prepare effective presentations.

B. Industry Connect- The gap between Curriculum and its application in industry is minimized by inviting industrial professionals on regular intervals for seminar, invited talks and workshops.

C. Online quiz- Faculties prepare online quiz for students after the completion of each unit with the help of GOOGLE FORMS.

D. Video Conferencing- Students are counseled with the help of Zoom / Google meet applications.

E. Video lecture- Recording of video lectures is made available to students for long term learning and future referencing (youtube)

2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year)

Response: 24.33

2.3.3.1 **Number of mentors** ?????????????? ???????

Response: 43

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	View Document
Mentor/mentee ratio	View Document
Circulars pertaining to assigning mentors to mentees	View Document

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 69.61

File Description	Document
List of the faculty members authenticated by the Head of HEI	View Document
Institutional data in prescribed format	View Document

2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 4.28

2.4.2.1 **Number of full time teachers with *Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt.* year wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
02	02	02	02	02

File Description	Document
Institutional data in prescribed format	View Document

2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)

Response: 5.76

2.4.3.1 **Total experience of full-time teachers**

Response: 288

File Description	Document
Institutional data in prescribed format	View Document

2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

Response:

The transparent and smooth conduct of examinations and timely declaration of the results can be ensured only with the cooperation of all the stake holders including teaching, nonteaching and administrative staff. The institute is very particular about the fair conduct of examinations and publication of result in time. The examination cell of the institution prepare the guideline in the light of University examination regulation and institutions own academic calendar to make the internal examination transparent and error free so as to minimize the grievance of the student for any matter relating to examination. Following mechanism have been in practice to minimize the exam related grievance of students in any form:

1. Two sets of question are prepared by the subject teacher for internal examinations. Out of which the examination in charge is at liberty to choose either one.
2. The use of electronic gadgets like mobile phone, tablet devices, laptops, data storage watches ('smart-watches') is strictly prohibited inside the examination hall. The invigilators are instructed to be vigilant and take frequent rounds in the exam hall. The invigilators should not chit chat with each other as it will distract the students concentration in writing the Examination.
3. Invigilators remain in the Examination hall throughout the period of the examination and make necessary announcements before, during and at the end of the Examination.

4. The university norms relating to course-wise examination pattern are communicated to the students. The university circulars in this regard are circulated to the students, faculty members and administrative staff time to time and are also displayed on the notice boards for students.

5. Candidates are permitted to leave the examination hall only after one and half an hour from the commencement of examination. If a candidate wants to leave the hall after one and half an hour, the candidate surrenders the question paper along with the answer booklet and the question paper may be given to the student at the end of the examinations.

6. Changes in schedules, patterns, methods if any, are immediately notified to the students through notice boards, classroom briefing by the concerned subject teacher, group messages etc.

7. All the internal answer sheets are centrally evaluated and after evaluation answer scripts are shown to the students in the class room for verification and clearing of doubts if any.

Practical Examination:

Evaluation is done with transparency based on different parameters like Teachers Assessment, Practical records and performance in Viva-Voce.

2.5.2 Mechanism to deal with internal examination related grievances is transparent, time- bound and efficient

Response:

The Institution has an examination committee comprises of senior faculty members and a panel of subject experts from own and other colleges also.

1. Whenever any grievance comes from the student relating to examinations, principal of the institution referred the matter to the examination committee.
2. The institution has framed the guidelines to finalize any grievance of students within 15-days of receiving it from the student.
3. The meeting of the examination committee on concerned subject/branch with the outside member is held in the presence of the principal.
4. The student is always allowed to put forth his grievance in front of the committee. The student is informed about the rules and regulations of the examinations and then final decision is taken in this regard.
5. The decision of the committee is communicated to the student for information.
6. The presence of outside subject expert in the grievance redressal committee of every branch, ensure the transparency in the hearing of grievance relating to internal examinations.

2.6 Student Performance and Learning Outcomes

2.6.1 Teachers and students are aware of the stated Programme and course outcomes of the Programmes offered by the institution.

Response:

Programme outcomes and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

In strict compliance with the objectives of Outcome Based Education (OBE), the Program Outcomes (POs), Program Specific Outcomes (PSOs) and Course Outcomes (COs) are framed by the department offering the concerned program after rigorous consultation with all faculty and the stakeholders. After attainment of consensus, the same are widely propagated and publicized through various means such as display and/or communication specified hereunder.

- Website
- Curriculum /regulations books
- Class rooms
- Department Notice Boards
- Laboratories
- Student Induction Programs
- Meetings/ Interactions with employers
- Parent meet
- Faculty meetings
- Alumni meetings
- Professional Body meetings
- Library

While addressing the students, the HODs create awareness on POs, PSOs and COs. The faculty members, class teachers, mentors, course coordinators, programme coordinators also inform the students and create awareness and emphasize the need to attain the outcomes.

Program specific outcomes (PSOs) are the specific skill requirements and accomplishments to be fulfilled by the students at micro level and by the end of the program. The programme co-coordinators prepare the PSOs, usually two to four in number, in consultation with course coordinators. The programme Coordinator, including Head of the Department and subject experts, of the individual departments will discuss the same and approve it after endorsement by the Principal.

Program Outcomes (POs) are broad statements that describe the professional accomplishments which the program aims at, and these are to be attained by the students by the time they complete the program. POs incorporate many areas of inter-related knowledge, skills and personality traits that are to be acquired by the students during their graduation.

Course outcomes (COs) are direct statements that describe the essential and enduring disciplinary knowledge, abilities that students should possess and the depth of learning that is expected upon completion of a course. They are clearly specified and communicated. The Course Outcomes are prepared by the course coordinator in consultation with concerned faculty members teaching the same course. Finally, they are discussed in the concerned department's meeting course-wise and approved.

The POs/PSOs of the programme are published through electronic media at the college website http://www.srinix.org/. In all the interactions with the students, awareness on POs, PSOs and COs is consciously promoted.

File Description	Document
Upload COs for all courses (examples from Glossary)	[View Document](#)

2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

Response:

Each course has a defined set of course outcomes and corresponding evaluation criteria. The course outcomes are mapped to the program outcomes which are used to provide the quantitative measurement of how well the program outcomes are achieved. The performance of the students in the examinations during the semester in each course is used to compute the level of attainment of the POs and PSOs through the mapping of questions to COs and COs to POs and PSOs. CO-PO & PSO mapping for all the courses in the program is prepared by the program coordinator in consultation with other faculty members.

CO Attainment:

Assessment methods include direct and indirect methods. The process of course outcome assessment by direct method is based on mid examinations, semester end examination and quiz. Each question in mid semester, end semester, assignment, and quiz tests is tagged to the corresponding CO and the overall attainment of that CO is based on average mark set as target for final attainment.

- Mid Internal Examinations are conducted twice a semester and each of them covers the evaluation of the entire relevant COs attainment.

- End semester Examination is descriptive, and a metric for assessing whether the entire COs are attained.

The indirect assessment is done through the course end survey.

Rubrics are formulated for the assessment of Laboratory, Mini Project, Major Project, Seminar and Internship courses. The attainment of Course Outcomes of all courses with respect to set attainment levels are given under.

% of CO attainment	>=70%	>=60% &< 70%	>=50% &< 60%	<50%	
CO attainment level	3	2	1		

The attainment of each CO is computed by setting the class average mark as the target. The COs of each course are mapped to POs & PSOs with weightage of 3 (Strong), 2 (Medium) and 1 (Weak). The value obtained for CO attainment is multiplied by 1 for strong, 0.8 for medium and 0.6 for low correlation with the PO.

Assessment of Course outcomes of Lab courses:

The course outcomes of a practical course should satisfy at least any one or more of the defined program outcomes. These describe what students are able to demonstrate in terms of knowledge, skills, and values upon completion of the said course. Percentage of students who score more than 80% marks in each measured criterion is taken for calculating CO attainment.

Attainment of Program Outcomes and Program Specific Outcomes:

All the courses which contribute to the PO are identified and these courses are evaluated through the Course Outcomes using direct (Internal (20% weightage) and External exam (80% weightage) and indirect (Course end survey) assessments. The overall results from the assessments of the PO are compared with the expected attainment. The PO is considered satisfied on attainment of the expected level.

For each course, the level of attainment of each CO is compared with the predefined targets, and if not attained, the course coordinator takes necessary steps for improvement. If the target criterion level is not reached, then faculty suggest for improvement to attain the same.

2.6.3 Average pass percentage of Students during last five years

Response: 92.53

2.6.3.1 **Total number of final year students who passed the university examination year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
298	240	292	279	274

2.6.3.2 **Total number of final year students who appeared for the university examination year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
298	340	299	288	281

File Description	Document
Institutional data in prescribed format	[View Document](#)

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.72

File Description	Document
Upload database of all currently enrolled students (Data Template)	[View Document](#)

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

Response: 0

3.1.1.1 **Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
00	00	00	00	00

File Description	Document
Institutional data in prescribed format	[View Document](#)

3.1.2 Percentage of departments having Research projects funded by government and non government agencies during the last five years

Response: 0

3.1.2.1 **Number of departments having Research projects funded by government and non-government agencies during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
00	00	00	00	00

3.1.2.2 **Number of departments offering academic programes**

2020-21	2019-20	2018-19	2017-18	2016-17
05	05	06	06	06

File Description	Document
Institutional data in prescribed format	[View Document](#)

21-11-2022 11:14:27

3.1.3 Number of Seminars/conferences/workshops conducted by the institution during the last five years

Response: 11

3.1.3.1 **Total number of Seminars/conferences/workshops conducted by the institution year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
04	02	03	02	00

File Description	Document
Report of the event	View Document
Institutional data in prescribed format	View Document

3.2 Research Publications and Awards

3.2.1 Number of papers published per teacher in the Journals notified on UGC website during the last five years

Response: 0.19

3.2.1.1 **Number of research papers in the Journals notified on UGC website during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
4	2	1	1	1

File Description	Document
Institutional data in prescribed format	View Document

3.2.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Response: 0

3.2.2.1 **Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
00	00	00	00	00

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

3.3 Extension Activities

3.3.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

Response:

Srinix College of Engineering has been conducting a lot of extension activities in the neighborhoods community which is continuing till date in various forms as follows:

1. Blood donation camp
2. plantation of trees
3. Disbursal of financial assistance to the flood affected victims
4. Distribution of Sanitary Goods
5. Providing financial helps to the poor and needy people

Events Organized by the Institute:

SL NO	Name of the event	Date and Place /Reason of Occurrence	Number/Amount	
1	Blood donation camp	11-02-2017 at SCE, Balasore	153-units of blood collected	
		17.03.2018 at SCE, Balasore	211- units of blood collected	
		31.08.2019 at SCE, Balasore	187- units of blood collected	
		11.12.21 at SCE, Balasore	88- units of blood collected	
2	Plantation of trees	15-09-2018, SCE Balasore	150- number of non flowering plan	
	Plantation of trees	02.10.21, SCE, Balasore	170- number of plants	
3	Disbursal of financial assistance to the flood affected victims	13-10-2020, Kanasa and Astaranga mouza	Donated to 10 number of Rs.60,000/- (Sixty thousand o number:-364818 dt: 13-10-2020	
		21-10-2020, Kanasa mouza	Donated to 05 number of ben 20,000/- (Twenty thousand on	

			number: 379061 dt: 21-10-2020
		18.06.21, Maujhuri/Badakiari mouza	Donated to 20 number of be 1,60,000/- (One Lakh Sixty tho cheque number:-504383 dt: 18-06-
		25.06.21, Ganipur, Under Remuna block, Balasore	Donated to 20 number of benefici (Sixty four thousand only) Vide 000104, Date: 25-06-2021
4	Distribution of Sanitary Goods	06.07.21, Ganipur, Under Remuna block, Balasore	Masks 250 in number, Vitamin Sanitizer-150 bottles
5	Providing financial helps to the poor and needy people by Balasore Technical Education Society (BTES), Balasore	Regular feature of the BTES, Balasore	Given below in separate table:

Number of beneficiaries received financial help with year-wise breakups

Year	Number of Beneficiaries	Amount Received	
2018	48	1,62,700	
2019	86	3,04,650	
2020	20	76,600	
2021	22	60,000	

3.3.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

Response: 2

3.3.2.1 **Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
01	01	00	00	00

File Description	Document
Institutional data in prescribed format	View Document
e-copy of the award letters	View Document

3.3.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

Response: 5

3.3.3.1 **Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
0	01	01	01	02

File Description	Document
Reports of the event organized	[View Document](#)
Institutional data in prescribed format	[View Document](#)

3.3.4 Average percentage of students participating in extension activities at 3.3.3. above during last five years

Response: 17.2

3.3.4.1 **Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
303	187	281	153	20

File Description	Document
Report of the event	[View Document](#)
Institutional data in prescribed format	[View Document](#)

3.4 Collaboration

3.4.1 The Institution has several collaborations/linkages for Faculty exchange, Student exchenge, Internship, Field trip, On-job training, research etc during the last five years

Response: 0

3.4.1.1 **Number of linkages for faculty exchange, student exchange, internship, field trip, on-job training, research etc year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
00	00	00	00	00

File Description	Document
Institutional data in prescribed format	[View Document](#)
e-copies of linkage related Document	[View Document](#)

3.4.2 Number of   functional MoUs with national and international institutions, universities, industries, corporate houses etc. during the last five years

Response: 0

3.4.2.1 **Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
00	00	00	00	00

File Description	Document
Institutional data in prescribed format(Data template)	[View Document](#)
e-Copies of the MoUs with institution./ industry/ corporate houses	[View Document](#)

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

Response:

The policy of the institute is to provide the infrastructure as per the norms laid down by AICTE and upgrade the laboratories as per the growth-expansion. In addition to the physical infrastructure which caters for co-curricular and extra-curricular activities, the policy of the institution is to provide other educational infrastructure for students in terms of library resources, software and equipment in the laboratories as prescribed in the curriculum. The institute has provided Wi-Fi facility to the students and staff. Apart from adequate provision of class rooms, some rooms are having projectors and audio visual teaching aids. **SCE has been recognized as a nodal center recognized by IIT, Kharagpur, for accessing courses under ATAL and NPTEL programme.**

1. Physical Facilities:

The Institute has adequate infrastructural facilities for academics and administration. Twenty six numbers of class rooms & thirty six numbers of Laboratories (as per university curriculum) with state of the art machineries/equipment, five computer labs having required number of computer with software are available for students use and administrative work. Library, Play grounds, Gymnasium, Girls common room, separate hostels for boys and girls, separate toilets for staff & students (both boys and girls separately) are also available as physical facilities of the institute.

The detail Infrastructural facilities available in the instruction:

Sl .No.	Particulars	No of Rooms Available in the institution	Total Area (in Sq Meter)	
01	Class Room	26	2720	
02	Tutorial Room	03	204	
04	Drawing Hall	01	160	
05	Laboratories	37	3650	
07	Computer Center	05	740	
08	Library and Reading Room	01+ 01 = 02	610	
09	Auditorium	01	310	
10	Seminar Hall/Skill development	02	320	
11	Smart class room	02	220	
12	Gymnasium	01	60	
Total Area			**8994**	

Other Facilities available at SCE, Balasore:

Room	Number/Area of	Room
	in sq. m.	
45KVA DG for power backup	01	
100KVA Transformer	01	
Students Counseling Room	40	
Girls' Common Room	120	
Recreational space for staff and students (Gymnasium)	60	
Grievance Redressal Room	20	
Health Centre	40	
Canteen	120	
Drinking Water (high capacity Voltas purifying and cooling machine)	03	
Aqua guard for staff	02	

Hostel (2-boys-300 capacity and one girls-capacity 200):

Hostel facility is provided for boys' and girls' separately. These hostels are situated very near to the institute. The capacity of Boys' Hostel (Radhanath Boys hostel) is 240, New Boy's hostel is 60 and Girls' Hostel (Kokila Ladies hostel) is 200 students. The hostels are provided with 24 hours security system & are under CCTV monitoring system. Other physical facilities, like pure drinking water, toilets, power back up system (inverter) and mess for food are available as per requirement.

As the district medical college and hospital (Fakir Mohan Medical College & Hospital is only 1-km away from the hostel all medical emergency cases are easily dealt with. A Warden is appointed to look after the general discipline of the hostel. Hostel Superintendent and deputy superintendent, mess managers are appointed to take care of the hostel.

File Description	Document
Upload any additional information	[View Document](#)

4.1.2 The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

Response:

The college emphasizes on the overall development of students, by the way of motivating talented and deserving sports men and sports women. The Sports Coordinator organizes games such as volley ball, football, kabadi, badminton and various athletic events and winners are awarded certificates and cash prizes. Our student participates in various cultural competitions and brings laurels to the college.

Sports facilities for students such as Basket ball & Bad Minton court, Football ground, Volleyball court, etc. are available in the campus. The students have their practice at 5 AM in the morning and 5 PM in the evening respectively. The students are encouraged and provided with all necessary facilities to participate in Inter University, Intra University and other sports tournaments.

Yoga Activities:

In addition to academics, cultural and physical activities, our college organizes "Yoga Activities" on a regular basis. Regular assessment through the response of students who involve themselves in yoga practice indicates improvements in their studies and functions.

Regular Cultural activities:

The expressive professionalism is imparted through cultural programs being conducted periodically. The institute has spacious auditorium, with excellent acoustics and massive seating capacity. Programs are planned to impart professional ethics, societal service, environmental protection and patriotism. The students have won various trophies and medals in various competitions. The college also conducts intra-college cultural competitions and prizes are awarded to the winners on the day of college Annual function.

The institution gives adequate importance to Sports and games. It has two acres of land for play fields. The Institution has enough facilities for both outdoor and indoor games.

Outdoor Games:

Institute has provided facilities for outdoor games like Badminton, Handball, volleyball etc. within the campus.

The details of the facilities are given below:

Sl.No.	Details
1	Volleyball court
2	Badminton court
3	Kabadi Ground
4	Football
5	Athletics 400 mts Track

Indoor Games/ Facilities:

Indoor game facilities like carom, chess are provided by the institute. The details of which are given below:

Sl.No.	Details	Number
1	Chess	09 Sets
2	Carom	04 Boards 20mm with accessories

Encouragement for Participation:

Attendance up to 10% is given to the students who represent the college at Inter-University, National level competitions as per University rule. Travelling allowance and DA is provided to the students to participate in the events outside the district. Sports material and uniform is also provided to the college teams to participate in different events. Annual Intra- mural competitions for boys and girls are conducted. Annual Sports day is celebrated and meritorious sports persons of the college are honored.

One of our students **Sri Somanath Kar**, got **3rd prize** in **XXIII National Deaf Senior Sports Championship** held at Jawaharlal Nehru Stadium, Chennai, January 27-31, 2019.

The same student is again selected to participate in the 68th State Athletic meet, 2022, scheduled to be held at KIIT Athletics Stadium, Bhubaneswar from 8-11 April 2022. The institute has provided all supports to the student for better performance. and bring laurels to the institute.

4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. *(Data for the latest completed academic year)*

Response: 14.81

4.1.3.1 **Number of classrooms and seminar halls with ICT facilities**

Response: 04

File Description	Document
Institutional data in prescribed format(Data template)	[View Document](#)

4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

Response: 14.54

4.1.4.1 **Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
75.52744	3.00000	18.49096	33.11309	88.62563

File Description	Document
Upload audited utilization statements	[View Document](#)
Institutional data in prescribed format(Data template)	[View Document](#)

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS)

Response:

Automation of Library:

The Library of Srinix College of Engineering, Balasore has been established since 2009 and running effectively till date. As per the requirement of library advancement, the version has been up-dated periodically. Presently the Library is having 1**5325** no of books and **1371** number of titles. The automation of the library has been completed and all the books are bar coded for issue and return of books.

SL.NO.	YEAR	NAME OF ITEM	DETAILS DESCRIPTION	REMA
01.	2016-17	Software Name	Happy Mind	
		Nature of Automation	Partially	
		Version	1.0.0	
02.	2017-18	Software Name	Happy Mind	
		Nature of Automation	Partially	
		Version	1.0.1	
03.	2018-19	Software Name	Happy Mind	
		Nature of Automation	Partially	
		Version	1.0.1	
04.	2019-20	Software Name	Happy Mind	
		Nature of Automation	Partially	
		Version	1.0.2	
05.	2020-21	Software Name	Happy Mind	
		Nature of Automation	Fully	
		Version	1.0.3	

File Description	Document
Upload any additional information	[View Document](#)
Paste link for Additional Information	[View Document](#)	

4.2.2 The institution has subscription for the following e-resources

1. e-journals
2. e-ShodhSindhu
3. Shodhganga Membership
4. e-books
5. Databases
6. Remote access to e-resources

Response: B. Any 3 of the above

File Description	Document
Institutional data in prescribed format(Data template)	[View Document](#)

4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

Response: 2.75

4.2.3.1 **Annual expenditure of purchase of books/e-books and subscription to journals/e- journals year wise during last five years (INR in Lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
2.27152	0.92367	2.29253	2.09121	6.18385

File Description	Document
Institutional data in prescribed format(Data template)	[View Document](#)
Audited statements of accounts	[View Document](#)

4.2.4 Percentage per day usage of library by teachers and students (foot falls and login data for online access) during the latest completed academic year

Response: 4.56

4.2.4.1 **Number of teachers and students using library per day over last one year**

Response: 50

File Description	Document
Details of library usage by teachers and students	[View Document](#)

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

With the increasing demand for internet access in educational campuses due to evolving standard of education and flexibility offered by the Internet - universities, colleges, educational institutes etc., are keenly stepping forward to setup secured and stable wired or Wi-Fi network campus for their students and staff. As per the current market trend, most of the students like to carry 3-4 devices with them like mobile, tablets, laptops etc. with them to campus. As these devices devour bandwidth, colleges and universities are struggling hard to keep up with the bandwidth demand. Educational campuses have major requirements of user access control, control over bandwidth consumption, and differentiated policy control for managing faculty's access and student's access. These campuses with wired and wireless internet access require seamlessly roaming facility to access internet from class room to library to labs. Laying complete network with different vendor solution would be very costly effort and difficult to manage with technical issues. Educational institutes require cost-efficient comprehensive solution that offers all the advance facilities and features in single platform with single point of contact for technical support.

Currently a dedicated internet connectivity of bandwidth **100 Mbps** is provided by *SAI INFOTECH SERVICES*, *ALLUPUR, BALASORE* through OFC link and **300 MBPS of high speed internet facility from BSNL (Total 400MBPS).** The campus is Wi-Fi enabled to promote digital flow.

IT facilities in the institution are used for different purposes are enlisted below:

1. Regular academic activities: Computer laboratories are used for practical of different computer science subjects like programming languages (C, C++, Python, Java), DBMS, OS, SE, TOC, CD, DAA, DS etc). Some other practical subjects like AUTO CAD by Civil Engg. Students, MATLAB by Elect.Engg students, VLSI design by ETC students and English communication by first year students are also conducted by Humanities department.

Computers and Internet facilities are used by final year students for their minor project, major project and seminar work.

2. Career growth of students: Different online courses offered by NPTEL through SWAYAM portals (organized by IITs) are accessed by students for their career enhancement.

3. Faculty development programs: Faculty members of the institution can attend different online FDPs, workshops, conferences organized by different premier institutes all over India to enhance their teaching and research capabilities.

4. Regular official work: Computers with internet facilities are available in different offices of the institution for automation of different activities. College circulars, notices, CL and El applications are monitored through college **ERP** system.

5. Online examination and e-evaluation: Online internal assessment of students through objective questions is held in the institution. Different online entrance examinations by different stakeholders are organized in the computer lab every year. E-evaluation of +2- CHSE, Odisha are also conducted. Financial amounts gained through this are utilized for further development of IT infrastructure.

4.3.2 Student - Computer ratio (Data for the latest completed academic year)

Response: 5.15

4.3.3 Bandwidth of internet connection in the Institution

Response: A. ?50 MBPS

File Description	Document
Details of available bandwidth of internet connection in the Institution	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)

Response: 64.7

4.4.1.1 **Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year-wise during the last five years (INR in lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
230.0652	149.6434	143.9044	223.3337	150.8545

File Description	Document
Institutional data in prescribed format(Data template)	View Document

4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Response:

University prescribes course curriculum in both theory and Practical and the credit points. All the laboratories are set up with state of the art technology as per BPUT, Curriculum. The academic system consists of 02- semesters in a year and accordingly students complete their degree in 4-years for 10+2 pass students and 3-years for Lateral entry students (students after completion of Diploma course).

Keeping in view the above facts, the Institute has an established system and procedure for maintaining & utilizing its physical, academic and support facilities:

Laboratory: Whatever the students taught in the class room is generally practiced in the laboratory as lab experiment. In each laboratory one faculty member is assigned as a lab in charge along with, one demonstrator and peon. The following procedures are maintained in each laboratory for effective conduct of lab experiments.

- Lesson plans are prepared before the commencement of regular lab class.
- Lab manual for all the experiments are prepared in which all the procedures are written.
- Lesson progress is maintained regularly for which any shortfall can be identified and corrective measures can be taken.
- Evaluation of records: Grade is awarded by the teacher after evaluation of the record and asking viva questions against each experiment.
- Quiz test is conducted on regular basis and before the final examinations and accordingly the marks are awarded by the faculty in charge.

Generally two to three cycles are made to complete experiment and in each group & 2-3 students are assigned for one experiment except in computer lab, where each student is provided with one computer. The HODs of the respective department regularly monitor the lab status, conduct of experiments and principal also verifies it at least once in a month.

Lab maintenance is done before the commencement of semesters as a standing procedure. Every month lab maintenance report is asked from the department to know the working conditions and remedial action taken accordingly.

Library:

Once student takes admission or promoted to next semester, Library issues notice just after 7-days of commencement of class to receive books on different dates for different batch and branch of students. Students generally submit their demand in a plane paper 3-4-day before their issue dates. On the date of issue students are issued books for all the papers in that semester & for the entire semester (one book from each paper). They return books only after the completion of University examinations. Students are allowed to come to the Library reading room beyond class hour and on holidays to read books in the Library. News papers, Magazines, Journals are issued to students on temporary basis. The automation system helps in the library to search for the availability of books and its physical positions.

Every year an internal audit is performed to monitor the positions of library books, status of books etc and specific recommendations are submitted by the audit committee for necessary action. The unique feature of the Library   is to issue books to the students one time for the entire semester, which satisfies students and

also reduces workload in the Library.

Sports Complex:

The Institute has its own play ground for outdoor games like, Cricket, Football, volley ball & Badminton. Basket ball court & volley ball court is prepared as per the standard of games. Indoor games like, Carom, Chess are played by the students. Sports in charge manage the store and all games in the college with a group of staff as member of the sports committee. Student representatives from all batches represent the sports committee.

One Gymnasium center has been installed in the campus for both staff and students. Students & staff use it both in the morning and evening & do their exercise and body building in this center.

Every year in the month of January or February we conduct Intra College & inter college competitions both in sports & athletics. Prizes are awarded to the winner students on the annual function day.

Computers:

There are 165 numbers of computers in five different laboratories under Computer Science & Engineering Department. Laboratory timing for different department and sections are mentioned in the time table of the college for each semester as per syllabus. It is always planned to utilize the resource to a maximum. Computer laboratories are used as a central facility for the students and members of the staff. Computers in the laboratories are maintained regularly with our hardware person to keep all the systems updated. We conduct outside examinations and generate revenue for the college.

Class rooms:

The institute is having 26 number of class rooms which is more than the AICTE requirement with all facilities. Specific rooms for tutorial classes, seminar Hall, Auditorium, skill development class rooms are well furnished to take classes. Some classrooms are enabled with ICT facilities (Internet connectivity, Computer, LCD projector, White board) for better online teaching.

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

Response: 55.68

5.1.1.1 **Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)**

2020-21	2019-20	2018-19	2017-18	2016-17
725	477	697	620	477

File Description	Document
upload self attested letter with the list of students sanctioned scholarship	[View Document](#)
Institutional data in prescribed format	[View Document](#)

5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

Response: 55.68

5.1.2.1 **Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)**

2020-21	2019-20	2018-19	2017-18	2016-17
725	477	697	620	477

File Description	Document
Upload any additional information	[View Document](#)
Institutional data in prescribed format	[View Document](#)

5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the following

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

Response: A. All of the above

File Description	Document
Institutional data in prescribed format	View Document
Link to Institutional website	View Document

5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

Response: 6.5

5.1.4.1 **Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
138	131	88	00	00

File Description	Document
Institutional data in prescribed format	View Document

5.1.5 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

Response: B. 3 of the above

File Description	Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	[View Document](#)
Details of student grievances including sexual harassment and ragging cases	[View Document](#)

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 14.29

5.2.1.1 **Number of outgoing students placed year - wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
67	69	59	00	00

File Description	Document
Institutional data in prescribed format	[View Document](#)

5.2.2 Average percentage of students progressing to higher education during the last five years

Response: 13.09

5.2.2.1 **Number of outgoing student progressing to higher education.**

Response: 39

File Description	Document
Upload supporting data for student/alumni	[View Document](#)
Institutional data in prescribed format	[View Document](#)

5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

Response: 5

5.2.3.1 **Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government**

examinations) year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
00	01	00	00	00

5.2.3.2 **Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
10	04	08	00	00

File Description	Document
Upload supporting data for the same	[View Document](#)
Institutional data in prescribed format	[View Document](#)

5.3 Student Participation and Activities

5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.

Response: 2

5.3.1.1 **Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) year-wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
01	01	00	00	00

File Description	Document
Institutional data in prescribed format	[View Document](#)
e-copies of award letters and certificates	[View Document](#)

5.3.2 Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms)

Response:

The institute always gives importance to all its stake holders and student particularly plays an important role in decision making. The involvement of students in both curricular and extracurricular activities of the institution makes this campus a completely ragging free and disciplined.

Curricular activities:

Except first year in all the upper semesters there are elective papers and as per the suggestions of the students it is chosen by the departments. Students are free to give their suggestions for extra courses to be selected for workshop/short term training apart from normal curriculum.

Students are also a member of the library committee. They suggest their requirements for the purchase of library books, Journal etc. Student's suggestion for training to enhance their employability is always accepted for implementation and accordingly training in soft skill, aptitude reasoning and English are given to them.

Extracurricular activities:

Students have representation in anti ragging committee for which there is a good relationship prevails among the students. Not a single case of ragging has come to the notice of the authorities since the inception of the institute.

Conduct of annual sports, annual function: student plays a key role in these two mega events of the college. Both staff and students combined accomplish the events of sports and annual function every year.

5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 12

5.3.3.1 **Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
15	15	15	15	00

File Description	Document
Report of the event	[View Document](#)
Institutional data in prescribed format	[View Document](#)

5.4 Alumni Engagement

5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

The Institute established Alumni association in the academic year 2021 bearing registration number **40062110438** but previously department wise Alumni meet was informally conducted. The main objectives of association are

1. To promote and foster mutually beneficial interaction between Alumni and the Institute.

2. To encourage the formation of regional chapters to increase participation of Alumni.

3. To encourage the Alumni to take abiding interest in the process and development of Institute.

 4. To arrange and support in placement activities for the students of the Institute.

5. To mentor the students of the Institute for higher education, development of character and being good citizens.

6. To encourage and guide the students of the Institute on self employment & to become entrepreneurs.

7. To guide students of the Institute on various professional avenues available and support them through various activities such as expert advice, seminars, visit etc.

8. Promote the Industry Institute interaction to bridge the gap between industry requirements and education offered and enhance students' employability.

9. To help towards environmental conservation, antipollution activities against air, water and

sound pollution and all possible ways of social awareness.

10. To help and guide students and ex-students of the Institute for antidrug, anti-ragging, and any other antisocial activities.

11. To arrange blood donation, eye donation and health awareness Camps. Sighting the above objectives of Alumni Association our alumni contributes in many ways for the development and betterment of our Institute. Our students and Institute are benefited in various fields such as student placement, training, expert lectures, career guidance sessions, Industrial visits and mentoring. The alumni of Institute guide and nurture our students to become engineering professionals. It is our plan to develop everlasting relations

with our alumni which in turn will give rise to mutual benefits.

File Description	Document
Upload any additional information	[View Document](#)
Paste link for additional information	[View Document](#)

5.4.2 Alumni contribution during the last five years (INR in lakhs)

Response: E. <1 Lakhs

File Description	Document
Upload any additional information	[View Document](#)

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of and in tune with the vision and mission of the institution

Response:

Vision of the Institute: The vision of the Institute is to impart national standard technical Education at an affordable price through highly qualified and experienced faculties providing of academic conducive environment & making employable through various means to its student, who can be ultimately technically superior, ethically strong so as to place its position safe in the society.

Mission of the Institute: The mission of the institute is to implement and achieve the goal projected in the vision of the Institution in a time frame manner through meticulous effort using best available Technology & continuous assessment with stringent measure.

The institution has been providing quality technical education at an affordable cost not compromising the standards of education, so that students can become successful in their chosen career path in advanced studies in engineering. The Institute is to assist the students in the field of innovative project development so that they can contribute to the technical field of their communities. The aim is to make the professional career of the students, so that they can play leadership roles in industry, business, to become socially responsible for the development of themselves, the society and the nation at large.

The decision making body, the Academic committee comprises of the principal & Heads of the departments plans, analyze and monitor all the activities related to academics. Preparation of academic calendar, lesson plan, lesson progress, Weekly attendance review, monthly academic review, and two times feedback from students are reflexive for achieving the goal of the institution. Different committees are placed in position for effective governance of the institution to satisfy the mission & vision of the institute.

6.1.2 The effective leadership is visible in various institutional practices such as decentralization and participative management

Response:

The management of the institution plays key role in implementation of policies and continuous development of the institution in a well established manner. The principal is the administrative head of the institution. He coordinates, directs, supervises and controls as the head of administrative, academic, developmental and other allied activities of the institute. He plays a positive and creative role for the overall development of the institution. Active participation of employees & regular interaction & consultation with departments make decision making process more scientific and transparent.

The institution has constituted several committees to enhance the performance in all the areas of importance and all the committees are given sufficient autonomy to plan and execute the same in time. All the coordinators discuss policies with their members and implement the same completely in a decentralized manner within norms of the institutions. All those activities of the committees are monitored by the

Principal as head of the institutions. The management of the institutions informed/suggests the principal about the objectives of the management time to time and the same is implemented through different committees.

1. Admission Committee
2. Academic Committee
3. Examination Committee
4. Grievance Redressal Committee
5. Women's Harassment Cell
6. Anti Ragging Committee
7. Disciplinary Committee
8. Cultural Committee
9. Sports Committee
10. SC & ST Grievance Redressal Committee
11. OBC Committee
12. Minorities Committee

The institution interacts regularly with its stake holders and takes steps to rectify its policies for further improvement of the institutions. Our stake holders:

1. Students
2. Faculty members
3. Parents
4. Alumni
5. Industries & employers
6. Persons from reputed Institutions
7. Government
8. Society

Case Study:

1. Examination committee decides the date of internal examinations and pattern of questions and accordingly conducts the examination. Internal marks and Practical marks are given by the department through their respective lab in charge to the examination section through the principal for direct uploading in the university portal.

2. Since its inception in 2009, Srinix College of Engineering is a ragging free campus and not a single case of student unrest on any matter has happened to till date.

3. Any student come for taking his pass certificates can get it within an hour time.

6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Response:

The Institutional strategy of zero loss of working days, completion of 100% syllabus in time and getting more than 90% University results are the examples of some of the successful plan which have been implemented since its inception. The reflection in the University result and most disciplined campus shows that students are satisfied with the programme conducted by SCE, Balasore. All the stake holders are well informed and their suggestions are accepted for improvement in different areas. The ERP system, automation of Library, Digital mode of payment, ICT enabled class rooms, providing training in soft skill as well as in English, reasoning &, aptitude made us unique from other institutes. All the above training programmes resulted in the placement of students.

The fees structure of the institute is the lowest in the state and even after that the college provides all facilities to all its stake holders. It's probably the only institute which provides library books to its students in all subjects in all the semesters and they return it only after the completion of the semester examinations.

The Social commitment of the institute is also fulfilled as per plan. The donations given to the poor peoples of the locality on medical ground, financial help provided to the flood and cycle victims is the pride of this institution.

Apart from regular classes, conduct of seminar, workshop, invited guest lecture, plantation, blood donation camp, Yoga training, moral and ethical talks by experts are highly appreciated by the students and parents.

6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules and procedures, etc.

Response:

The Governing body of the institution is the highest decision making and policy making body of the institution. It normally seats once in a year before the commencement of academic year, i.e., in the month of April or May. The Governing body consists of 13 members having expertise from all required areas like, Educationist, Academician, Industrialist, R&D, Administration and representatives from the affiliating University & state Government. The annual budget and policy for the next year is decided in the meeting of GB. The budget and other proposal adopted as resolution in GB meeting is placed in the executive body/committee meeting of BTES, Balasore for necessary revision and approval. After approval by the executive committee of BTES, it is implemented by the principal.

Developments of Infrastructure, Staff requirement, Result analysis, placement, Innovation in teaching, changes in service rules if any are effectively implemented by the Institution.

Outcomes:

1. University results above 90% almost in all the years.
2. No Student or staff unrest since its inception in 2009- completely a disciplined campus.
3. 100% coverage of courses with utmost student's satisfaction.
4. Service rules are highly accepted by the employees.
5. Training programme enhances the ability of the students to get jobs in all the fields.
6. Faculty members are able to enhance their knowledge level through attending and participating different FDP, STTP, Seminar, conference and NPTEL courses. The development of knowledge

percolates to the students through the class room teaching and projects done by the students.

6.2.3 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

Response: B. 3 of the above

File Description	Document
Screen shots of user interfaces	[View Document](#)
Institutional data in prescribed format(Data template)	[View Document](#)

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

Response:

The Institution provides EPF facilities to all its regular employees after completion of probation period as per Government norms. Both Employer and employee contribute their share as per guideline of EPF authority. Employees are also provided with ESI facilities as per government guidelines.

The Institute is providing six months full paid leave for its married lady employees, which is unique as a self financing college. Staff members are also given with 13- days EL for emergency or long leave cases apart from 15-days casual leave. The leaves are not limited to only CL or EL; there are many instances where staff members get special medical leave or leave due to of lives of parents.

There is an opportunity for all the members of the staff to get salary advance for medical, construction of house, marriage, purchase of vehicle, parental death cases etc without any interest and the amount will be refunded on installment basis from the salary.

The Institution provides group insurance to its staff members.

1. EPF
2. ESI
3. Maternity leave for 6- months with salary
4. 13-days-EL to all employees apart from normal CL of 15-days
5. Special medical leave apart from CL & EL
6. Salary advance as and when applied by the staff
7. Financial assistance to the members of the staff severely suffered for medical cases
8. Group Insurance for staff members- **Policy No: 55080042220100000002- The New India**

Insurance co

6.3.2 Average percentage of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the last five years.

Response: 3.98

6.3.2.1 **Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
7	3	0	0	0

File Description	Document
Upload any additional information	[View Document](#)
Institutional data in prescribed format(Data template)	[View Document](#)

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 1.8

6.3.3.1 **Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
03	02	03	01	00

File Description	Document
Institutional data in prescribed format(Data template)	[View Document](#)

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).

Response: 15.36

6.3.4.1 **Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
12	21	03	02	00

File Description	Document
Upload any additional information	[View Document](#)
Institutional data in prescribed format(Data template)	[View Document](#)

6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff

Response:

The self appraisal systems for teaching staff are already in practices in the institution. In the first week of every month faculty members submitted their self appraisal form to the principal. The form contains 30 different parameters of academic and non academic activities performed by the faculty. Performance of the faculty members is analyzed by a committee comprises of principal and management representative for analysis of the report and suggestions are given for improvement in the weaker area.

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

The financial section of SCE, Balasore called the accounts section collects and disburse money through digital mode. Students deposit their fees in the bank or through Google pay system. The accounts section is managed by own ERP system, developed by the department of Computer Science & Engineering. Internal audit is done every month by the auditor of BTES group of Institutions. Every quarterly it is audited by the external auditor and accordingly returns is filed by the chartered accountant. After closing of the financial year, final audit statement is published with due signature from the chartered accountant.

6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropers during the last five years (not covered in Criterion III)

Response: 0

6.4.2.1 **Total Grants received from non-government bodies, individuals, Philanthropers year-wise during the last five years (INR in Lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
00	00	00	00	00

File Description	Document
Institutional data in prescribed format(Data template)	[View Document](#)

6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Response:

Srinix College of Engineering, Balasore is managed by **"Balasore Technical Education Society, Balasore"** (BTES, Balasore). The Governing body of the college sits every year and the annual budget is also passed there. The annual report, balance sheet, development, future plan is also placed for approval of the Governing body. After approval by the executive committee meeting of the BTES, the decision taken by the GB meeting is implemented by the principal.

New construction, Purchase of equipment, Library books, salary, financial assistance, donations etc are taken into account for mobilization of funds.

All department heads put up their proposal with quotations through the principal for final approval by the management. The IQAC suggests through the principal for infrastructural development, staff requirement, conduct of seminar/workshop/conference, visits etc and is approved by the management for implementation.

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Response:

The sole objective of Internal Quality Assurance Cell (IQAC) of the institute is to achieve its mission of qualitative improvement in academic and administrative functionary of the institution. The institution has made self regulated device for assessment of teaching learning process by supervision through IQAC. The IQAC continuously reviews and takes steps to improve the quality of the teaching learning process. The academic calendar is prepared well in advance, i.e., before the commencement of any session, displayed

and circulated in the institution and strictly followed. Students are apprised of the time table, programme structure, syllabi of the courses before the semester commences. All the classes are monitored by the Principal &, HOD of different departments. Feedback from students is taken individually by management & principal and is properly analyzed for further course of action.

PRACTICE - I

COMPLETION OF COURSE ASPER STIPULATED TIME AS A MEASURE OF QUALITY TEACHING OUTCOME

Day by day the management of the institution is giving much emphasis to increase the academic standards of the institution. Academic calendar is prepared well before the start of academic session, so teacher is getting sufficient time to prepare their lesion plan. Earlier courses were completed just before the exam, but now it is completed well before (Say 15 days) the examination, so that it is possible to conduct extra doubt clearing classes during those periods. After completion of each module, probable question and answers, last 5- years' questions & answers are uploaded in the college website. To create interest among the students most of the time teachers are taking the help of ICT tools. During peak hours teachers are requested not to take any casual leave except in emergency. The credit of leave of the staff members are consumed during no class timings. It has been observed that this has become a huge success during last three years.

The Institute implemented and rigorously monitored the proctor system to maintain the attendance level of students. The sincere effort of the management to enhance the skill level of the students for placement has encouraged the students to compete with other students.

PRACTICE - II

Srinix College of Engineering has succeeded through a persistent focus on imparting quality education through its innovative comprehensive flexible education policy. The IQAC carries out activities that encompass all aspects of the institute's functioning.

1. Faculty members join Faculty Development programme to refresh and enrich their knowledge. In last two years more than 200 FDPs, Seminars & Workshops are attended by the faculty members.
2. Students are eagerly participating courses beyond syllabus through NPTEL and Swayam (our college is a centre). It is being monitored by the institute regularly.
3. Implementation of self appraisal system and student feedback system in the institute enhances the competition level among staff members which in turn befit the students in getting quality education. University result analysis directly reveals the improvement in quality education in last year's. The placement and students joining higher education also has increased significantly.

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities (For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives)

Response:

The Institution has made substantial improvement in almost all the important areas through planning, execution and reviews at periodic intervals. The IQAC has taken a major role in these developmental activities:

1. **Improvements in academics:**

Since the commencement of any academic session IQAC stars its activities through academic calendar. After preparing academic calendar, the workload distribution, preparation of time table, lesson plan are completed as per schedule.Every month class progress is monitored by the management and the principal separately and discrepancy if any is shorted out with the specific person, which helps in the timely completion of the syllabus. Student's online feedback is taken twice in a semester about the faculty and the same is analyzed by the principal and measure is taken immediately. Students are encouraged to join NPTEL courses relevant to the specific semester which helps them to enhance the knowledge in the subject. As the academic calendar is strictly adhered, the course is completed 15-days before the commencement of classes for which extra doubt clearing classes and revision classes are possible to conduct.

This has resulted a tremendous outcome in the University result. Two of our students **scored 10 SGPA out of 10 in the University results in 2021**.

1. **Improvement of Attendance:**

Proctor system is effectively implemented for all the batches. All the proctors monitor the attendance of their students on a regular basis. If any student remains absent for more than 3-days then he/she is contacted by the proctor and informed the parents about the progress of course and loss beard by his/her ward.Personal counselling is done by the proctor and make them understand about their career.

It has been observed that the attendance of the students has increased around 15% as compared to the earlier years when proctor system was not implemented.

1. **Implementation of self assessment system on monthly basis:**

Since 2021 institution has implemented the self appraisal system on monthly basis for the faculty members. It has been observed that faculty members have joined/participated voluntarily in Faculty Development Programmes, Workshops, Seminars, Conferences and also started publishing paper in journals. Not only they joined outside courses but also they take a lead in conducting the same in their departments.

In last one year (2021) total FDP, Workshop, Seminar, Conference attended by the staff members is 40.

1. **Performance in placement:**

As per the suggestion of the IQAC skill development training at free of cost is offered to the students. Outside trainers are assigned to train the students in aptitude, Reasoning, English. The college has signed

an MOU with Mohendra Educational Trust to provide skill development support to the students of SCE, Balasore. The Institute has recruited one software trainer to train the students of CSE, EE, EEE & ETC in the areas of soft skill.

It has been observed that the student's performance in the recently conducted campus drive is much better than the previous years. It has been decided to continue this skill development training programme in future and also for other junior batches and it will be a continual improvement programme.

6.5.3 Quality assurance initiatives of the institution include:

1. **Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
2. **Collaborative quality intitiatives with other institution(s)**
3. **Participation in NIRF**
4. **any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)**

Response: D. 1 of the above

File Description	Document
Institutional data in prescribed format(Data template)	[View Document](#)

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Measures initiated by the Institution for the promotion of gender equity during the last five years.

Response:

Srinix College of Engineering has been taking steps towards gender sensitivity through various initiatives and actions for creating safe, secure and healthy atmosphere in the campus and doing consistent effort for promotion of gender equality based women education.

SCE is imparting coeducation for both girls and boys as per the reservation policy of the government. The girl students are admitted every year through Odisha Joint Entrance Examinations & JEE main conducted by Government of India and are of remarkable number in comparison to boys.

Every year the college observes international women day on 8th March and receives various suggestions from girl students and its female employees for their betterment and plans accordingly.

College organizes every year annual sports and function in which specific events has been arranged for girl students such as Rangoli making, chess, athletics, poster presentation etc in which the girl students have shown their excellence. A large no of girl students have shown their potential in different events and won various prizes.

Girl's Common room:

Specific room with all amenities has been provided in the academic block towards common room in which the girl students spend time in the free hours.

Counseling:

The institution has a dedicated Counseling Centre and good mentoring system for the students to take care of their academic, emotional, social and cognitive development.

Safety and Security:

The institution provides safety and security to all students and staff inside the campus. CCTV has been installed at all strategic places for surveillance throughout the campus and hostels. Hi-Tech Surveillance system: E- Surveillance with high resolution cameras through day and night facility of distributed recording in control room has been set up in the campus.

This system ensures to all Female staff, students can move freely in the campus and feel assure that they are secure at all the time in the campus. Every year college provides self defense training from the trained experts to protect the safety of girl students inside and outside the campus. Similarly specific hostel with required no of lady matron and security has been deployed for safety and security.

File Description	Document
Specific facilities provided for women in terms of: a. Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	[View Document](#)
Annual gender sensitization action plan	[View Document](#)

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

1. **Solar energy**
2. **Biogas plant**
3. **Wheeling to the Grid**
4. **Sensor-based energy conservation**
5. **Use of LED bulbs/ power efficient equipment**

Response: D. 1 of the above

File Description	Document
Geotagged Photographs	[View Document](#)

7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- **Solid waste management**
- **Liquid waste management**
- **Biomedical waste management**
- **E-waste management**
- **Waste recycling system**
- **Hazardous chemicals and radioactive waste management**

Response:

1-Solid waste management

Waste product disposal includes the activities and actions required to manage waste materials from its inception to its final disposal. This includes the collection, transport, treatment and disposal of waste material together with monitoring and regulation of the waste management process. Waste produced is solid, liquid, or gas and each type have different methods of disposal and management.

The institution has taken a lot of effort to make the campus clean and for its beauty and attraction. Four sweepers have been used for the regular cleaning of the campus. Every day the sweepers collect some garbage of which some are degradable and non degradable.

The degradable waste product once collected by the sweeper is kept in the waste product tank which has

water pouring facility. The waste product is converted in to bio fertilizer by natural means and the product is used in the garden. The non-biodegradable materials are separated at the source by the sweeper and kept in a separate tank earmarked for this purpose and is handed over to the Municipality.

3-Biomedical waste management

A pond named as Bio fertilizer pond has been prepared as per environmental guidance to keep the garbage and is converted to compost. The pond has been separated into two parts, one for solid waste and one for moist waste. The bio fertilizer produced is used in the college garden.

Similarly a separate reservoir is made and fitted with hard durable polythene to contain the non degradable materials such as glass, plastic etc, after seven days of collection and it is disposed of to the municipality through the municipality van.

4-E-waste management

The e-waste generated in the institution is kept in a separate room and kept far from the reach of students. Annually it is disposed off to the e-waste management group authorized by the Government through license.

6-Hazardous chemicals and radioactive waste management

The hazardous chemicals used in the Chemistry Laboratory are kept away from the students in well ventilated rooms. Doe's and don'ts are mentioned in a notice board inside the laboratory as a safety measure for the staff and students. Regular check up is done in case of leakage of gases and chemicals. Fire extinguishers have been installed at different strategic places for prohibition of accident.

File Description	Document
Any other relevant information	[View Document](#)

7.1.4 Water conservation facilities available in the Institution:

1. **Rain water harvesting**
2. **Borewell /Open well recharge**
3. **Construction of tanks and bunds**
4. **Waste water recycling**
5. **Maintenance of water bodies and distribution system in the campus**

Response: C. 2 of the above

File Description	Document
Geotagged photographs / videos of the facilities	[View Document](#)

7.1.5 Green campus initiatives include:

1. **Restricted entry of automobiles**
2. **Use of Bicycles/ Battery powered vehicles**
3. **Pedestrian Friendly pathways**
4. **Ban on use of Plastic**
5. **landscaping with trees and plants**

Response: B. 3 of the above

File Description	Document
Geotagged photos / videos of the facilities	[View Document](#)

7.1.6 Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:

1. **Green audit**
2. **Energy audit**
3. **Environment audit**
4. **Clean and green campus recognitions / awards**
5. **Beyond the campus environmental promotion activities**

Response: B. 3 of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	[View Document](#)
Certificates of the awards received	[View Document](#)

7.1.7 The Institution has disabled-friendly, barrier free environment

1. **Built environment with ramps/lifts for easy access to classrooms.**
2. **Divyangjan friendly washrooms**
3. **Signage including tactile path, lights, display boards and signposts**
4. **Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment**
5. **Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading**

Response: D.1 of the above

File Description	Document
Geotagged photographs / videos of the facilities	[View Document](#)

7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities

(within 500 words).

Response:

1. *Observation of Lord Biswakarma Puja*
2. *College Annual function*
3. *Annual sports*
4. *Subsidized meals at hostel*
5. *Subsidized medical assistance to hostel boarders*

The Institute always trying to maintain harmony among its stake holders by celebrating Lord Biswakarma puja & other activities every year in its campus. This specific day we worship the Idol of Lord Biswakarma and the entire day is celebrated as a celebration day. Normally Puja starts in the morning & continued up to 3 PM. Prasad distribution starts around 12 noon for all the Students, Staff & guests invited for the purpose.

Generally in the month of January or February every year college celebrates its Annual functions for two days. Prior to that Annual sports is also conducted in the campus. On the first day of Annual function it starts with a welcome meeting in which students are given prizes for different competitions held throughout the year both in academic and non-academic matter. After the meeting the cultural function starts by the students of the institute. In the second day both College students and celebrities from outside is invited for the functions.

All students and staff members' participation in this event increases relationship as a family without any feelings of caste & creed and religion.

As per the mission of this institute to provide education at an affordable price at SCE, Balasore, the meals in the hostel are served at a subsidiary rate. Any boarders fell seek in the hostel, hostel bears the initial medical expenditure up to Rs.2000/- without taking it from the students/parents.

7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).

Response:

The students and employees of the institution are being sensitized for different social activities as the constitutional obligations. Activities carried out by the NSS group of the Institution are listed below:

Different programmes are organized by our young & dynamic group of NSS coordinator and volunteers.

a). Plantation: Distribution of plants in local areas .

b). Blood donation camp with the help of district head quarter blood donation unit.

c). Awareness camp in local areas regarding, Covid-19 Pandemic and distribution of sanitizer, Mask, Mosquito net etc.

d). Helping in rescue operations during Cyclone and flood affected people.

e). Cleaning of hospital campus as "Swachh Bharat Abhiyan".

f). Distribution of Mosquito net in local areas.

g). Awareness and distribution of covid protected items in local areas.

7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.

1. **The Code of Conduct is displayed on the website**
2. **There is a committee to monitor adherence to the Code of Conduct**
3. **Institution organizes professional ethics programmes for students, teachers, administrators and other staff**
4. **Annual awareness programmes on Code of Conduct are organized**

Response: D. 1 of the above

File Description	Document
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims.	[View Document](#)

7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).

Response:

1. Engineer's day
2. National blood donation day
3. Independence day & Republic day
4. International Women's day

Engineer's day Celebration:

Every year the institute celebrates Engineer's day on 15th September as **birth day anniversary of Sir M Visvesvaraya**. There is a local Association of Engineer's forum Balasore, in which all the Engineers from Balasore are the members of this association. On this occasion different competitions like, Project/ model presentation, Debate, Technical quiz competitions, felicitation of best engineering graduates from the district are conducted. All our students are participating every year and won the prizes as a matter of pride for the organizations. Students also act as volunteers to organize the occasion at Balasore.

National blood donation day:

Every year we conduct 2-3 blood donation camp at our premises and National blood donation day is one among them. Students and staff members voluntarily donate blood as self motivation and got appreciation from district blood donation officer every year.

Independence day & Republic day:

Srinix College of Engineering celebrates Independence Day & Republic day every year since its inception. Selected students participated in the district parade on this occasion and got medals from the district administration as a pride for the Institution. Different competitions like patriotic songs, Debate, Quiz etc are also conducted on the campus. Inter college competitions are also conducted to enhance the level of competitions among the students.

7.2 Best Practices

7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

Response:

1. **University Result:**

Owing to the effective planning & execution of academic policies of the institution we are successful in the University results. Achievement of above 90% result has proved the collective efforts made by the staff members of the institution.

Year	Pass percentage	Highest CGPA	
2020-2021	94.13	9.6	
2019-2020	92.46	9.2	
2018-2019	89.93	9.4	
2017-2018	89.76	9.1	
2016-2017	91.07	9.3	

1. **Library:**

One time issue of library books for all subjects in a semester is a unique feature of this institute. Students get their books at the starting of the academic semester and returned the books only after completion of the University examinations. Reference books are also available in the library to refer more number of authors in any subject on daily basis. E-books & E-journals are also available in the library for the students and staff to enhance their knowledge in teaching & research.

1. **Skill development & training:**

Skill development & training programmes are provided to the students of 4th year & 3rd year in Soft skill, Department technical skill, Reasoning, Aptitude and English. Specific trainers for soft skill (computer languages as per Industry demand), and also trainers from outside for Aptitude, Reasoning and English are appointed to enhance the employability skill of the students. The Institute does not collect any fees from the student on training heads even if the institute is having the lowest tuition fees in the state.

1. **Student feedback System:**

Student feedback system has been successfully implemented by the institution and improvements in the academic are reflected in the result. Student's attendance has improved tremendously and all minor problems in the class room teaching/online teaching have been rectified.

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

The performance of the Institution on the area of academic and management system of online classes, online supervision by the management, attendance monitoring through proctors of Institution is distinctive to its priority. The Institution has adopted very strong academic vision for completion of syllabus and qualitative conduct of classes in all semesters. Faculty members of the institution take online classes on holidays, Sunday to manage their classes as per lesson plan for urgent leave taken by them as a motto of "Zero loss of class hours".

As regard to monitoring of attendance, the proctors of the Institution are allotted group of students in their class. The proctor follows up the attendance of his/her students through personal contact and with the parents in case of absentee students on each Saturday of the week. The Principal verifies all the proctor activities by calling weekly meetings of the proctors in his office and accordingly remedial actions are planned.

Similarly as regard to student feedback, the Institution has adopted three tier system of feedback: Centrally through feedback in charge in the online/offline mode, the principal takes feedback by physically calling students and verifying the class note provided by the college to the student and lesson plan submitted by individual faculty members. The management also takes students feedback separately through its academic in charge.

As regard to effective academic management the Institution adopted policies since long to provide class notes, Probable question and answers to the student through Institution website. Faculty members upload their class note by themselves after completion of every module. One senior faculty member is assigned to monitor whether all the notes and probable question & answers are uploaded in time or not & submit a report to the principal every month.

5. CONCLUSION

Additional Information :

- Immediately after the NAAC approval, it is planning to apply for NBA for at least in two disciplines.

Concluding Remarks :

The Institution is growing fast since its inception in 2009. The Institute aims at maintaining the university result, enhancing placement and research activities through proper planning and execution. Proper planning by the Governing Body, decentralized way of administration and execution by the principal through its staff members will take the institute to a greater height. Our aim is to make it one of the best Engineering College in the state by next five years and India by next ten years.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification

1.4.1	*Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders*
	
	1) Students
	
	2)Teachers
	
	3)Employers
	
	4)Alumni
	
	      Answer before DVV Verification : A. All of the above
	      Answer After DVV Verification: B. Any 3 of the above
	    Remark : Observation accepted as per the supporting documents.

1.4.2	**Feedback process of the Institution may be classified as follows:**
	
	Options:
	
	   1. **Feedback collected, analysed and action taken and feedback available on website**
	   2. **Feedback collected, analysed and action has been taken**
	   3. **Feedback collected and analysed**
	   4. **Feedback collected**
	   5. **Feedback not collected**
	
	     Answer before DVV Verification : C. Feedback collected and analysed
	     Answer After DVV Verification: B. Feedback collected, analysed and action has been taken
	    Remark : Observation accepted as per the supporting documents

2.3.3	**Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year)**
	
	   2.3.3.1. **Number of mentors** ?????????????? ???????
	     Answer before DVV Verification : 55
	     Answer after DVV Verification: 43

2.4.2	**Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)**
	
	   2.4.2.1. **Number of full time teachers with *Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt.* year wise during the last five years**
	     Answer before DVV Verification:
	
	<table><tr><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td></tr></table>

| 01 | 01 | 01 | 01 | 01 |

Answer After DVV Verification :

| 2020-21 | 2019-20 | 2018-19 | 2017-18 | 2016-17 |
| 02 | 02 | 02 | 02 | 02 |

Remark : Observation accepted as per the supporting documents

2.4.3	**Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)** 2.4.3.1. **Total experience of full-time teachers** Answer before DVV Verification : 55 Answer after DVV Verification: 288
3.2.2	**Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years** 3.2.2.1. **Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years** Answer before DVV Verification: {| 2020-21	2019-20	2018-19	2017-18	2016-17	03	03	00	00	00 } Answer After DVV Verification : {| 2020-21	2019-20	2018-19	2017-18	2016-17	00	00	00	00	00 }
3.3.3	**Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years** 3.3.3.1. **Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years** Answer before DVV Verification: {| 2020-21	2019-20	2018-19	2017-18	2016-17	04	01	02	01	01 } Answer After DVV Verification : {| 2020-21	2019-20	2018-19	2017-18	2016-17	0	01	01	01	02 }

	Remark : Observation accepted as per the supporting documents provided by HEI

3.4.1	**The Institution has several collaborations/linkages for Faculty exchange, Student exchange, Internship, Field trip, On-job training, research etc during the last five years**
	
	    3.4.1.1. **Number of linkages for faculty exchange, student exchange, internship, field trip, on-job training, research etc year-wise during the last five years**
	Answer before DVV Verification:
	
	<table><tr><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td></tr><tr><td>54</td><td>00</td><td>00</td><td>00</td><td>00</td></tr></table>
	Answer After DVV Verification :
	
	<table><tr><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td></tr><tr><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr></table>
	    Remark : Observation accepted as the activity shown by HEI does not come under the assessment period.

3.4.2	**Number of functional MoUs with national and international institutions, universities, industries, corporate houses etc. during the last five years**
	
	    3.4.2.1. **Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years**
	Answer before DVV Verification:
	
	<table><tr><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td></tr><tr><td>05</td><td>00</td><td>00</td><td>00</td><td>00</td></tr></table>
	Answer After DVV Verification :
	
	<table><tr><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td></tr><tr><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr></table>
	    Remark : Observation accepted as the MoUs shown by HEI do not come under the assessment period.

4.1.4	**Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)** 4.1.4.1. **Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)** Answer before DVV Verification: <table><tr><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td></tr><tr><td>7552744</td><td>300000</td><td>1849096</td><td>3311309</td><td>8862563</td></tr></table>

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
75.52744	3.00000	18.49096	33.11309	88.62563

4.2.3 — **Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)**

4.2.3.1. **Annual expenditure of purchase of books/e-books and subscription to journals/e-journals year wise during last five years (INR in Lakhs)**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
227152	92367	229253	209121	618385

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
2.27152	0.92367	2.29253	2.09121	6.18385

4.4.1 — **Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)**

4.4.1.1. **Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year-wise during the last five years (INR in lakhs)**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
23006529	14964348	14390440	22333371	15085450

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
230.0652	149.6434	143.9044	223.3337	150.8545

5.3.1 — **Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.**

5.3.1.1. **Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) year-wise during the last five years.**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
02	01	00	00	00

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
01	01	00	00	00

Remark : Observation accepted as per the supporting documents.

6.2.3	**Implementation of e-governance in areas of operation** 1. **Administration** 2. **Finance and Accounts** 3. **Student Admission and Support** 4. **Examination** Answer before DVV Verification : A. All of the above Answer After DVV Verification: B. 3 of the above Remark : Observation accepted as per the supporting documents.
7.1.2	**The Institution has facilities for alternate sources of energy and energy conservation measures** 1. **Solar energy** 2. **Biogas plant** 3. **Wheeling to the Grid** 4. **Sensor-based energy conservation** 5. **Use of LED bulbs/ power efficient equipment** Answer before DVV Verification : C. 2 of the above Answer After DVV Verification: D. 1 of the above
7.1.4	**Water conservation facilities available in the Institution:** 1. **Rain water harvesting** 2. **Borewell /Open well recharge** 3. **Construction of tanks and bunds** 4. **Waste water recycling** 5. **Maintenance of water bodies and distribution system in the campus** Answer before DVV Verification : A. Any 4 or all of the above Answer After DVV Verification: C. 2 of the above Remark : Observation accepted as per the supporting documents
7.1.6	**Quality audits on environment and energy are regularly undertaken by the Institution and any**

awards received for such green campus initiatives:

1. **Green audit**
2. **Energy audit**
3. **Environment audit**
4. **Clean and green campus recognitions / awards**
5. **Beyond the campus environmental promotion activities**

Answer before DVV Verification : A. Any 4 or all of the above

Answer After DVV Verification: B. 3 of the above

Remark : Observation accepted as per the supporting documents

7.1.7	**The Institution has disabled-friendly, barrier free environment**
	1. **Built environment with ramps/lifts for easy access to classrooms.**
	2. **Divyangjan friendly washrooms**
	3. **Signage including tactile path, lights, display boards and signposts**
	4. **Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment**
	5. **Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading**
	Answer before DVV Verification : C. 2 of the above Answer After DVV Verification: D.1 of the above Remark : Observation accepted as per the supporting documents
7.1.10	**The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.**
	1. **The Code of Conduct is displayed on the website**
	2. **There is a committee to monitor adherence to the Code of Conduct**
	3. **Institution organizes professional ethics programmes for students, teachers, administrators and other staff**
	4. **Annual awareness programmes on Code of Conduct are organized**
	Answer before DVV Verification : A. All of the above Answer After DVV Verification: D. 1 of the above Remark : Observation accepted as per the supporting documents

2.Extended Profile Deviations

ID	Extended Questions
1.1	**Number of courses offered by the Institution across all programs during the last five years** Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
5	5	6	6	6

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
296	296	296	200	204

1.2	**Number of programs offered year-wise for last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
1	1	1	1	1

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
5	6	6	6	6

2.1	**Number of students year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
281	313	371	409	397

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
1046	1113	1167	1085	966

3.1	**Number of full time teachers year-wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
50	50	50	58	73

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
50	51	43	43	48

3.2	**Number of sanctioned posts year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
50	50	50	58	73

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
66	66	78	58	73

4.2	**Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
31236070	20742784	25016410	31739382	30285125

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
312.3607	207.4278	250.1641	317.3938	302.8512