



## YEARLY STATUS REPORT - 2021-2022

<b>Part A</b>	
<b>Data of the Institution</b>	
<b>1.Name of the Institution</b>	SHAH AND ANCHOR KUTCHHI ENGINEERING COLLEGE
• Name of the Head of the institution	DR. BHAVESH PATEL
• Designation	PRINCIPAL
• Does the institution function from its own campus?	Yes
• Phone no./Alternate phone no.	02225580854
• Mobile no	9820021466
• Registered e-mail	shahandanchor@sakec.ac.in
• Alternate e-mail	principal@sakec.ac.in
• Address	MAHAVIR EDUCATION TRUST CHOWK, NEAR SHATABDI HOSPITAL , CHEMBUR
• City/Town	MUMBAI
• State/UT	MAHARASHTRA
• Pin Code	400088
<b>2.Institutional status</b>	
• Affiliated /Constituent	AFFILIATED
• Type of Institution	Co-education
• Location	Urban

• Financial Status	<b>Self-financing</b>				
• Name of the Affiliating University	<b>MUMBAI</b>				
• Name of the IQAC Coordinator	<b>Mr. Mahesh Patil</b>				
• Phone No.	<b>02225580854</b>				
• Alternate phone No.	<b>8369284061</b>				
• Mobile	<b>9029546137</b>				
• IQAC e-mail address	<b>iqac@sakec.ac.in</b>				
• Alternate Email address	<b>mahesh.patil@sakec.ac.in</b>				
<b>3.Website address (Web link of the AQAR (Previous Academic Year))</b>	<a href="https://www.shahandanchor.com/home/internal-quality-assurance-cell-iqac/">https://www.shahandanchor.com/home/internal-quality-assurance-cell-iqac/</a>				
<b>4.Whether Academic Calendar prepared during the year?</b>	<b>Yes</b>				
• if yes, whether it is uploaded in the Institutional website Web link:	<a href="https://www.shahandanchor.com/home/academic-calendar-3/">https://www.shahandanchor.com/home/academic-calendar-3/</a>				
<b>5.Accreditation Details</b>					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
<b>Cycle 1</b>	<b>A</b>	<b>3.16</b>	<b>2021</b>	<b>20/10/2021</b>	<b>19/10/2026</b>
<b>6.Date of Establishment of IQAC</b>			<b>03/01/2019</b>		
<b>7.Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,</b>					
Institutional/Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount	
<b>NIL</b>	<b>NIL</b>	<b>NIL</b>	<b>NIL</b>	<b>0</b>	
<b>8.Whether composition of IQAC as per latest NAAC guidelines</b>			<b>Yes</b>		
• Upload latest notification of formation of IQAC			<a href="#">View File</a>		

<b>9.No. of IQAC meetings held during the year</b>	<b>03</b>	
<ul style="list-style-type: none"> <li>• Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website?</li> </ul>	<b>Yes</b>	
<ul style="list-style-type: none"> <li>• If No, please upload the minutes of the meeting(s) and Action Taken Report</li> </ul>	No File Uploaded	
<b>10.Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	<b>No</b>	
<ul style="list-style-type: none"> <li>• If yes, mention the amount</li> </ul>		
<b>11.Significant contributions made by IQAC during the current year (maximum five bullets)</b>		
<p>1) Incubation Centre is developed and was inaugurated on 15th August 2022. The students having their Start-up are availing this facility. 2) Shah and Anchor Kutchhi Engineering College in collaboration with CyberPeace Foundation, V4WEB Cybersecurity and Council for Fair Business Practices (CFBP) launched SAKEC-CyberPeace Centre of Excellence on 14th October 2022. 3) The institute has appointed a HR and Internship Executive to facilitate quality internships opportunities to students. This has resulted an increase in the number of paid internships in reputed companies. 4) Teaching Learning Centre SAKEC in Collaboration with IQAC and Department of AI&amp; DS sakec organized an event on "Action research - connecting research, theory, and classroom practices" to train faculty members and empower them to adapt action research in education. 5) Institution has implemented IIC5.0 from September 2022.</p>		
<b>12.Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year</b>		

Plan of Action	Achievements/Outcomes
Development of Incubation Centre	The incubation centre was inaugurated on 15th August 2022.
Establishment of Cyberpeace Centre of Excellence	The CoE was inaugurated on 14th October 2022. Many activities were conducted. The detail are in <a href="https://www.shahandanchor.com/cyber_security/centre-of-excellence/">https://www.shahandanchor.com/cyber_security/centre-of-excellence/</a>
Apponitment of HR and Internship Executive to facilitate quality internships opportunities to students	Appointed specific faculty as HR and Internship Executive. Significant increase in paid as well as unpaid internships. Proper centralized documentation of all students internships
Creating awareness of action research among faculty members	Organized an event on "Action research - connecting research, theory, and classroom practices" to train faculty members and empower them to adapt action research in education.
Participation in IIC 5.0	Institution has implemented IIC5.0 from September 2022. Many events were conducted under IIC 5.0 umbrella.
Conduct activities and incorporate Indian Knowledge systems into our curriculum and our education system	Our Institute has encouraged students to participate in the Internship Program initiated by IKS. 16 students have completed the IKS Internships. b) Institute had also applied for the IKS center proposal
Encouraging extra Curricular Activities art, painiting, movies,etc	The institute established a Movie Club, Art Club 'Kalavrind
<b>13. Whether the AQAR was placed before statutory body?</b>	No
<ul style="list-style-type: none"> <li>Name of the statutory body</li> </ul>	

Name	Date of meeting(s)
Nil	Nil

#### 14. Whether institutional data submitted to AISHE

Year	Date of Submission
2021-22	18/12/2022

#### 15. Multidisciplinary / interdisciplinary

In the view of requirements of the society ,institute has taken number of steps in order to become multidisciplinary institution. Hounors degree will be offered to students after successful completion of a four semester interdisciplinary course on various advanced topics such as Artificial intelligence and data science, internet of things, augmented reality and virtual reality. This four semester course will be offered to all third year students of the institution as per their choice.

There are institute level elective subjects such as disaster management ,environmental management, cyber security which will incorporate human values and science among students.

Institute offers credit based grading system curriculum in which credits are assigned after successful completion of the course. Students do mini projects and major projects in the filed of robotics, electronics ,data science and security, which covers multidisciplinary subject.

College is affiliated with Mumbai university and currently does not have flexible curriculum with multiple entry and exit facility.

However college has decided to go for autonomy so that it can have flexible curriculum with multiple entry/exit .Process to become an autonomous institute will be completed in near future.

There is a fully functional research celldoing research in interdisciplinary areas .

Good practice of the institution :Students participate in project competitions such as smart India hackathon, avishkar ,wherein they present projects providing solutions for most pressing issues of society. In order to prepare students for these competitions inter

college project competition is held and judges are invited from industry as well as from other institutes. Suggestions given by expert judges are incorporated by the students, which helps in improving their performance in these project competitions.

#### **16.Academic bank of credits (ABC):**

The process of registering of students for academic bank of credits is started by the institute. We will be completing this task in this academic year.

#### **17.Skill development:**

Efforts made by the Institution to strengthen the vocational education and soft skills

1. At the beginning of the every academic year training cell conducts two weeks training programme for last year students to improve soft skills. Soft skills training is the training that focuses on developing skills such as communication, teamwork and problem solving. Other soft skills include emotional intelligence, a positive attitude and taking the initiative.

2. Under Literary Art Event several Debate /discussion are organized which covers all International events and issues. Interesting Debate Topics are

1. [Education](#)
2. [Technology](#)
3. [Science](#)
4. [Politics](#)
5. [Environment](#)
6. [Society](#)

The skills students learn from debating are not limited to public speaking or eloquence in expressing their ideas. Preparing for a debate helps them increase their critical thinking and script writing skills.

Institute provides value based education as described below-

1. Several workshops are conducted by "Art of Living "Its stress-elimination and self-development programs are based on the breathing technique Sudarshan Kriya, meditation and yoga. This technique is a major part of Art of Living courses. These courses have been conducted for students and faculty.

2. Art-of-living is a form of self-direction with a view to the good life. Art-of-living wants to teach man to achieve the good life himself. As such, it employs a mix of both modern and classical concepts, such as autonomy, authenticity, and "the good life".

### **18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)**

We are affiliated to the University of Mumbai, who decides and revises the curriculum periodically. We are in the process of applying for Autonomy. We will plan to conduct activities and incorporate Indian Knowledge systems into our curriculum and our education system. In this direction, we have done these activities in 2022.

1. Our Institute has encouraged students to participate in the Internship Program initiated by IKS:
  1. Eight students have completed the IKS Internships from Feb 2022 to Apr 2022
  2. Another set of eight students have completed the IKS internships from July 15th to Sep15th
  3. Faculties having interest in IKS domains submitted their problem statements to IKS and three faculty statements are accepted for Internship of July- Sep 2022. These were on the domains of Vruttas used in poems, Bhavas in Ragas of Indian Music, Indian Temple Architecture.
2. Institute had also applied for the IKS center proposal in Feb 2022 for the year 2022. Institute has reached up to the Final level of the selection round.
3. Institute has sent Extc HOD & Comps HOD to attend IKS mela in Delhi in July 2022 and now they are the faculty coordinators for IKS-SAKEC cell.
4. Formally, IKS-SAKEC cell was launched in the Institute, on Sep 15th, 2022, with the objective of providing a learning environment for the exploration of our ancient literature (IKS domains). Noted IKS scholar Shri Shashikant Shukla was the chief guest. He enlightened the audience with the relevance of Indian Knowledge system, comparison of Indian and western philosophy, the relevance of holistic approach of analysis

that is embedded in Indian traditional life style!

5. We have started procuring books related to IKS domain and organizing guest lectures and other activities based on the IKS domains.
6. SAKEC has collaborated with P.H. Thyagaraju, President, Rotary club Ghatkopar, Mumbai. He is a Sr. Scientific Officer in BARC and actively involved in spreading Sanskrit and IKS.
7. Faculty coordinators of IKS took a session, "IKS awareness & Study groups formation for SAKEC staff on Oct 14th, 2022. They briefed on probable domains of interest, how the mini-project statements can be tuned towards IKS domains, how the Literature survey of projects can incorporate our rich, ancient, traditional knowledge in scriptures. Our college faculties and lab assistants and students have expressed interest to be part of this initiative.
8. "Spirituality & Leadership" guest lecture is organized on 27th Oct, 2022, as part of personality building activities of IKS-SAKEC (Indian Knowledge Systems) cell, based on the principles that are deep rooted in our rich culture! Speaker Ms. Kirti Shetty, CSR Head of Compliance enriched the audience with the concepts of 'Transformational Leadership', the role of Spirituality in Leadership, qualities of a good leader!

#### **19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):**

We have been successfully implementing Outcome Based Education in our institute with periodic reviews and subsequent improvements done in every aspect of teaching and Learning process. All the curricular, co-curricular and extra-curricular activities are aligned in such a way that the 12 graduate attributes defined by National Board of Accreditation are attained by our students.

The institute has clearly defined vision and mission statements which are periodically evaluated by all the stakeholders and revised if required.

Every department has their own Vision, Mission, Program Outcomes (PO) and Program Specific Outcomes (PSO) and Program Educational Objectives that are aligned with the institute's mission and mission.

Every course In-charge design COs for their respective courses to improve the efficiency and effectiveness of the course content delivery. COs are designed in such a way that all cognitive levels of Bloom's Taxonomy are addressed. Respective course In-charges have to prepare Course Information form for internal valuation (CIFIE)

which provides details of CO, its mapping with POs and PSOs, assessment methods along with its weightages for each module which later helps to calculate the attainment of every student.

The process of conducting assessment internally is considered as a continuous process including Internal Assessment (IA) exam, Term work (TW) and Project reviews and assessment during the semester. The questions in IA tests and assignments are mapped to course outcomes of the course, which in turn mapped with the POs and PSOs of the program.

The attainment is calculated using both direct and indirect methods. Direct methods are based on (i) Internal evaluation such as Term work, Lab Performance, Quizzes, tutorials, Internal Assessments tests, etc. (ii) External evaluation such as end semester theory and practical exams. Indirect methods are based on course/lab exit survey, program exit survey, co-curricular and extra-curricular activities.

The institute practices various student centric methods such as experiential learning, participative learning and problem-solving methodologies for effective learning and provides the infrastructure accordingly to enhance the overall learning environment.

ICT tools are used by faculty members for effective teaching-learning by exploring and analysing knowledge, presentation skills and innovative capabilities. We have T-L centre to train faculty members and empower them to adopt innovative teaching and learning practices and provide support for ICT enabled active learning strategies in classroom teaching. In near future, we aim to facilitate and guide teachers to do educational research.

## **20.Distance education/online education:**

When the second wave of covid pandemic hit, physical classes could not be commenced. But the institution made sure that academics were not hampered. The entire teaching was shifted to online platform, MS Teams. MS accounts were created for all staff and students. Subject Teachers formed teams of their respective classes and subjects and calendared their lectures online. Students would join the respective team and attend lectures online. Not only were PowerPoint presentations shown to students by Screen sharing, but other features like White Board, Polls, Quizzes and Assignments were used by teachers for detailed explanation , tests and assignments. Using

the file sharing feature, all notes, textbooks and ppts were shared on teams by teachers, which the students could utilize with ease. Philophysics mobile application for sharing notes and practice quizzes was developed in our college for enriching the online learning experience in the subject of Engineering Physics. The app can be found on google play store here :  
[https://play.google.com/store/apps/details?id=com.philophysics.ephysicsapp&hl=en\\_IN&gl=US&pli=1](https://play.google.com/store/apps/details?id=com.philophysics.ephysicsapp&hl=en_IN&gl=US&pli=1)

Practical sessions were also conducted using programming tools, emulation and simulation software. All experiments were performed using open source tools and by using screen sharing using MS Teams, teachers could monitor the students' performance. Students submitted their journals online, using MS Teams file upload feature. In addition to these, virtual environments were created for first year labs which are not software based to ensure that the learning continued in the pandemic period with the same in fact enhanced efficiency. Find the virtual labs developed by our college on college website here : <https://www.shahandanchor.com/VLab/>

The Internal Assessment and End semester examinations of first half of 2021-22 were conducted using Google Meet online platform, where students marked their attendance and kept their laptop cameras on, so that the invigilators could monitor the students all the time. The scanned answer sheets were submitted using Google Forms.

During the second half of the academic year when covid situation improved, i.e., from January 2022, the classes were conducted in Hybrid mode. The institution did not compel the students to attend physical classes, so few students would attend college and few would take classes from home. All Covid protocols were adhered to when students were in the campus. The teachers would conduct lectures in classrooms, using chalk and duster, or using projectors. Camera stands were procured by all departments. Teachers would place their mobile cameras on the stand and shoot the lecture, the video being projected on MS teams, so that students at home wouldn't miss learning.

## Extended Profile

### 1.Programme

1.1	<b>329</b>
Number of courses offered by the institution across all programs during the year	

File Description	Documents
Data Template	<a href="#">View File</a>

### 2.Student

2.1	<b>2158</b>
Number of students during the year	

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

2.2	<b>00</b>
Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	

File Description	Documents
Data Template	<a href="#">View File</a>

2.3	<b>436</b>
Number of outgoing/ final year students during the year	

File Description	Documents
Data Template	<a href="#">View File</a>

### 3.Academic

3.1	<b>122</b>
Number of full time teachers during the year	

File Description	Documents
Data Template	<a href="#">View File</a>

3.2	170
Number of sanctioned posts during the year	
File Description	Documents
Data Template	<a href="#">View File</a>
<b>4.Institution</b>	
4.1	39
Total number of Classrooms and Seminar halls	
4.2	762.71453
Total expenditure excluding salary during the year (INR in lakhs)	
4.3	1056
Total number of computers on campus for academic purposes	

## Part B

### CURRICULAR ASPECTS

#### 1.1 - Curricular Planning and Implementation

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

SAKEC is affiliated to University of Mumbai and follows its curriculum At the beginning of each semester, the academic calendar is prepared aligned with the academic calendar of the University. Group of similar courses in the curriculum are divided into various domains and has domain in-charge associated with it. They guide course in-charges of respective courses under that domain.If gap is identified inthe syllabus, it is reported to the University so that it can be amended in the next syllabus revision. Gaps are managed by planning and conducting extra experiments, expert sessions or lectures by the teachers.

All faculty members maintain faculty diary that includes overall planning of lectures , lab experiments, students? projects and all other activities related to teaching and learning. Classroom teaching is augmented with ICT tools. Lecture and Practical monitoring of each faculty is done ,Feedback is taken and analyzed.

After every lab session, students are evaluated by conducting viva

to check their understanding as part of continuous assessment process. Beyond curriculum experiments are conducted and students are encouraged to undertake real world problems for their mini-projects to bridge the gap between industry and academic curriculum.

Students participate in various national and international level competitions

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Link for Additional information	Nil

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

At the beginning of each term, academic dean prepares academic calendar of the institute aligned with the university academic calendar. All the academic activities strictly adhere to the calendar for the complete term. Ours is an ISO 9001:2015 certified institution which ensures quality standards in all academic activities. All faculty maintain faculty diary wherein weekly and day wise planning of lectures, lab experiments, students projects, etc. are done aligned with the academic calendar.

Internal assessment test schedule and date for declaration of results are planned in the academic calendar itself, which helps the students to plan their activities. Institute plans and conducts remedial lectures for identified weak students after the first internal assessments. Schedule of practical/oral examinations are marked in the calendar and all examinations are held as per this schedule.

College has a well-functioning and effective student mentoring system. Meetings with mentors are conducted as per schedule in the calendar. Meeting with parents is planned once in the semester, where they are briefed about the progress of their wards, added infrastructure and facilities of the college.

Extracurricular and co-curricular activities, sports, cultural programs, etc are planned in the calendar and executed accordingly.

Project based learning is encouraged for all the courses in the curriculum.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Link for Additional information	Nil

**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 year.**

**B. Any 3 of the above**

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

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

## 1.2 - Academic Flexibility

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

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

06

File Description	Documents
Any additional information	<a href="#">View File</a>
Minutes of relevant Academic Council/ BOS meetings	No File Uploaded
Institutional data in prescribed format (Data Template)	<a href="#">View File</a>

**1.2.2 - Number of Add on /Certificate programs offered during the year**

### 1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)

11

File Description	Documents
Any additional information	<a href="#">View File</a>
Brochure or any other document relating to Add on /Certificate programs	No File Uploaded
List of Add on /Certificate programs (Data Template )	<a href="#">View File</a>

### 1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year

462

File Description	Documents
Any additional information	<a href="#">View File</a>
Details of the students enrolled in Subjects related to certificate/Add-on programs	<a href="#">View File</a>

## 1.3 - Curriculum Enrichment

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

The institute encourages and takes various initiatives to create awareness about important issues such as Gender, environment and Human Values. This helps to inculcate empathy and compassion towards less privileged people in our society and make them better human beings.

- Curriculum includes courses such as Environmental Studies, Professional communication & Ethics, Business communication & ethics, Cyber security, and IPR which address the issues of environmental sustainability & professional ethics.
- We have purchased URKUND plagiarism detection software to prevent copying in research and academic writing.
- Self defense workshops for women are regularly conducted. The institute ensures a safe environment for women on campus and supports gender equality in staff recruitments too. Institute conducts various CSR activities. Student Induction Program is

mandatory for newly admitted students from 2019-2020 academic year.

- "Tree Plantation" events are conducted as an act to give back to Mother Nature. The students visited Gaushala under CSR activity to learn the importance of cows in our natural ecosystem.
- Research Cell had developed numerous projects for societal benefits.
- SAKEC-NSS unit has a self-finance organization of 50 volunteers established in the academic year 2021-2022 many social events.

File Description	Documents
Any additional information	<a href="#">View File</a>
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	<a href="#">View File</a>

### 1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

46

File Description	Documents
Any additional information	<a href="#">View File</a>
Programme / Curriculum/ Syllabus of the courses	<a href="#">View File</a>
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	<a href="#">View File</a>
MoU's with relevant organizations for these courses, if any	No File Uploaded
Institutional Data in Prescribed Format	<a href="#">View File</a>

### 1.3.3 - Number of students undertaking project work/field work/ internships

267

File Description	Documents
Any additional information	<a href="#">View File</a>
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	<a href="#">View File</a>

## 1.4 - Feedback System

**1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders**  
**Students**  
**Teachers**  
**Employers**  
**Alumni**

**A. All of the above**

File Description	Documents
URL for stakeholder feedback report	<a href="https://drive.google.com/file/d/1QJ3Ao-ZyTN_FwKTTFDp-boW2ZpIa3syq/view?usp=share_link">https://drive.google.com/file/d/1QJ3Ao-ZyTN_FwKTTFDp-boW2ZpIa3syq/view?usp=share_link</a>
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**1.4.2 - Feedback process of the Institution may be classified as follows**

**A. Feedback collected, analyzed and action taken and feedback available on website**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
URL for feedback report	<a href="https://drive.google.com/file/d/1QJ3Ao-ZyTN_FwKTTFDp-boW2ZpIa3syq/view?usp=share_link">https://drive.google.com/file/d/1QJ3Ao-ZyTN_FwKTTFDp-boW2ZpIa3syq/view?usp=share_link</a>

## TEACHING-LEARNING AND EVALUATION

### 2.1 - Student Enrollment and Profile

**2.1.1 - Enrolment Number Number of students admitted during the year**

**2.1.1.1 - Number of students admitted during the year**

778

File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

**2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of supernumerary seats)**

**2.1.2.1 - Number of actual students admitted from the reserved categories during the year**

778

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of seats filled against seats reserved (Data Template)	<a href="#">View File</a>

## 2.2 - Catering to Student Diversity

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

Institute has developed well-defined procedures for overall monitoring, evaluating, improving and catering diverse students according to diverse learning needs. Efforts are taken to make teaching-learning processes effective and interactive.

**Efforts for Identifying Students' Learning Levels:**

- Self-assessment during Induction Program through quizzes based on pre-requisites.
- Key indicators to assess learning levels:
- Student performance in
  - End-semester exam
  - Internal Assessments

- Quizzes, Assignments, Game-Pedagogy, Mini Projects, Beyond Syllabus Experiments
- Pre-Placement trainings
- Mentors identify learning abilities based on academic performance, participation in various activities, behavioural, psychological and social aspects.

Programs for Slow Learners:

- Remedial sessions to help students perform better in examinations. Special care for lateral entry students in semester-III.
- Examination-oriented coaching, well-formulated notes and practice questions clear concepts on any topic.
- E-books and subject-related videos.
- Divyang students provided extra time during written examinations.

Programs for Advanced Learners:

- Digital library
- Developing critical skills through thought-provoking questions
- Challenging projects
- Sessions to prepare for competitive exams
- Encouragement for participating in state and national-level competitions, securing university-level ranking, MOOCs, paper publication, internships, enrolling in professional bodies and student chapters

Outcomes:

- Improved overall passing percentage
- Increased number of
- High-performing students
- Competition winners.
- Admissions in premier National and International Institutions.
- High-paying placement

File Description	Documents
Paste link for additional information	<a href="https://drive.google.com/file/d/1yRUFKNqSS_b66Z9J7wAPRvVkB7GxyM1N/view?usp=sharing">https://drive.google.com/file/d/1yRUFKNqSS_b66Z9J7wAPRvVkB7GxyM1N/view?usp=sharing</a>
Upload any additional information	<a href="#">View File</a>

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

Number of Students	Number of Teachers
2158	122

File Description	Documents
Any additional information	<a href="#">View File</a>

## 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

SAKEC strongly believes in learning through experience for the improvement of students in all aspects. Hence, the institute practices various student centric methods for effective learning and provides the infrastructure accordingly to enhance the overall learning environment.

[A] Experiential Learning: Process of learning through hands-on experiences.

- Practical implementation of theoretical knowledge learned in

the classroom.

- Institute organizes various workshops/training and competitions for students under various chapters/ professional bodies.
- Institute provides internships to students and facilitates them to work on industry projects.

[B] Participative Learning: Teachers and students together create a trusting and innovative learning environment and make use of a variety of teaching methods.

- Students Council formulate various student committees for planning and conducting sports, cultural and technical events.
- National and International industrial visits are organized for students to enhance their interpersonal skills.

[C] Problem Solving: Institute encourages teachers to incorporate activities that enhance problem solving skills of students.

- Students are encouraged to participate in inter and intra college project competitions/ exhibitions.
- MOOC certifications courses are promoted by the Institute.
- Each student has to complete the levels of interactive "Linguaphone iLotus L21" software to improve their communication skills.
- Institute has a well equipped library with adequate books and e-resources.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://drive.google.com/file/d/18pmKPs2Zizeam6TiNvvXFhaEkS5Fg9Ky/view?usp=sharing">https://drive.google.com/file/d/18pmKPs2Zizeam6TiNvvXFhaEkS5Fg9Ky/view?usp=sharing</a>

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

ICT tools are used by faculty for effective teaching-learning. Use of ICT enabled tools has a significant and positive impact on students' achievements.

A Teaching Learning Center at SAKEC is formed in 2019.

Following are the innovative initiatives undertaken by SAKEC faculty members for improving teaching and learning experience.

- Each department has dedicated smart classrooms to make the teaching learning process more interactive.
- Flipped Classroom, Think pair share and peer instruction are adopted for effective teaching and learning.
- Faculty members are encouraged for online courses to stay updated technologies and advanced teaching process
- Facilitating students for various Project Competitions is an integral part of our college culture. Students regularly participate in national level project competitions and Robotics and Embedded System contest link hackathons, e-Yantra.
- Microsoft Teams and Google Classroom is used by faculty members to conduct online lectures, assessments and to share learning resources during Covid-19 pandemic situation.
- Digital library base assignments promote self- learning of students.
- Urkund Software is used to check the plagiarism of the technical paper and report written by students.
- Institute promotes the faculty participation in STTP/FDP

especially on ICT Tool and Techniques.

- Industrial visits help students to get insight into industry culture and trends.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	<a href="#">View File</a>

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

#### 2.3.3.1 - Number of mentors

99

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	<a href="#">View File</a>
Circulars pertaining to assigning mentors to mentees	<a href="#">View File</a>
Mentor/mentee ratio	<a href="#">View File</a>

## 2.4 - Teacher Profile and Quality

### 2.4.1 - Number of full time teachers against sanctioned posts during the year

122

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View File</a>

### 2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. /

**D.Litt. during the year (consider only highest degree for count)****2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year**

15

File Description	Documents
Any additional information	<a href="#">View File</a>
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year (Data Template)	<a href="#">View File</a>

**2.4.3 - Number of years of teaching experience of full time teachers in the same institution (Data for the latest completed academic year)****2.4.3.1 - Total experience of full-time teachers**

1402

File Description	Documents
Any additional information	<a href="#">View File</a>
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	<a href="#">View File</a>

**2.5 - Evaluation Process and Reforms**

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

The process of conducting assessment internally is a continuous process including Internal Assessment (IA) exam, Term work (TW) and Project reviews and assessment during the semester.

1. **Internal Assessment Exam:** In a semester, two IA exams are conducted as per the rules of University. IA-1 is conducted in February/August. IA-2 is conducted in April/October. The exam schedule is displayed on the notice board and departmental web pages. The syllabus of IA exam is disseminated to students in the class well in advance. The solution of each question is discussed and the evaluated answer books are shown to students

to maintain transparency.

1. **Term Work (TW):** TW marks are given for each course, mini project and BE project as per Mumbai University norms.

1. **For Course:** The TW marks given to each student is the weightage of marks obtained from assignments, experiments and attendance as per the rules of University.
2. **Mini projects (if any):** are subjected to periodic reviews by the committee for continuous assessment followed by final demonstration and report writing.
3. **Final Year Projects:** Progress is monitored by the internal review committee fortnightly. The weightage of marks in reviews, quality of report and publications is considered for TW.

File Description	Documents
Any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://drive.google.com/file/d/1dIVx5ylRUydWPNO5Kq_VwuuImIepAK_1/view?usp=sharing">https://drive.google.com/file/d/1dIVx5ylRUydWPNO5Kq_VwuuImIepAK_1/view?usp=sharing</a>

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

To minimize the occurrence of any examination related grievances, all internal and University examinations are conducted in the Institute in a fair, transparent and time-bound. The examination section ensures confidentiality and security of the examinations. Institute deals with examination related grievances in an efficient way:

1. **Before examination:** Any grievance related to hall ticket is addressed and resolved by examination section.
2. **During examination:** To ensure students do not indulge in any unfair means, the examination is conducted under the supervision of Supervisors. The vigilant squad from university

and COE take rounds during the examination. If any student is found indulging in any unfair means, action as per the University guidelines is taken. An Unfair Means committee is set up to deal with such cases.

Students may report grievances in question paper, which is then conveyed to university and clarification, is communicated back through proper channel.

1. After examination: In internal examinations, grievances are addressed and rectified by the concerned faculty. In University exams, after the result declaration, students may raise grievance and apply for revaluation. Subject experts from other colleges do the revaluation.

All other grievances, that require communication with the university, are promptly done with proper documents by the examination section.

File Description	Documents
Any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://drive.google.com/file/d/1JvIXerzpRxSfKk4wRx_vYqNyZ2mRCShm/view?usp=sharing">https://drive.google.com/file/d/1JvIXerzpRxSfKk4wRx_vYqNyZ2mRCShm/view?usp=sharing</a>

## 2.6 - Student Performance and Learning Outcomes

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

To minimize the occurrence of any examination related grievances, all internal and University examinations are conducted in the Institute in a fair, transparent and time-bound. The examination section ensures confidentiality and security of the examinations. Institute deals with examination related grievances in an efficient way:

1. Before examination: Any grievance related to hall ticket is addressed and resolved by examination section.
2. During examination: To ensure students do not indulge in any unfair means, the examination is conducted under the supervision of Supervisors. The vigilant squad from university

and COE take rounds during the examination. If any student is found indulging in any unfair means, action as per the University guidelines is taken. An Unfair Means committee is set up to deal with such cases.

Students may report grievances in question paper, which is then conveyed to university and clarification, is communicated back through proper channel.

1. After examination: In internal examinations, grievances are addressed and rectified by the concerned faculty. In University exams, after the result declaration, students may raise grievance and apply for revaluation. Subject experts from other colleges do the revaluation.

All other grievances, that require communication with the university, are promptly done with proper documents by the examination section.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for Additional information	<a href="https://drive.google.com/file/d/1sNPbYvc2lT5oDGlQoQU-oJ529yCj3M64/view?usp=sharing">https://drive.google.com/file/d/1sNPbYvc2lT5oDGlQoQU-oJ529yCj3M64/view?usp=sharing</a>
Upload COs for all Programmes (exemplars from Glossary)	<a href="#">View File</a>

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

For outcome based education, analysis and attainment of course outcomes(CO), program outcomes (PO) and program specific outcomes(PSO) is important as it helps to improve the quality of teaching and learning process. The efficiency and effectiveness of the process is continuously assessed and improved by taking inputs from experts in the Department Advisory Board.

For every course, the attainment of COs, POs, and PSOs are calculated using Course attainment calculation sheet considering all aspects of teaching and learning process. The attainment calculations are as follows

1. CO attainment: Calculation of CO attainment is based on the following components:

[A] Direct Method

1. Internal Evaluation

- Term Work

i. Lab performance

ii. Assignments

iii. Other components(e.g. Quiz, tutorials, case studies etc)

- Internal Assessment Tests

2. External Evaluation

- End Semester Oral/Practical and Theory Examination

[B] Indirect Method

- Course Exit Survey :
- Lab Exit Survey:

2. PO attainment: Calculation of PO attainment is also based on the following components such as

1.Direct Method: The COs of each course are mapped to the POs and final PO attainment is calculated

2.Indirect Method:

- Co-Curricular and Extra Curricular activities
- Literature Survey
- Program Exit Survey

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for Additional information	<a href="https://drive.google.com/file/d/1lf80-j-5xmh5H273sgCWwzEV755OuLOR/view?usp=sharing">https://drive.google.com/file/d/1lf80-j-5xmh5H273sgCWwzEV755OuLOR/view?usp=sharing</a>

### 2.6.3 - Pass percentage of Students during the year

#### 2.6.3.1 - Total number of final year students who passed the university examination during the year

426

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for the annual report	<a href="https://drive.google.com/file/d/1lM3m5-PYihdSTjeXx-nXNdWUKlDGOGZ2/view?usp=sharing">https://drive.google.com/file/d/1lM3m5-PYihdSTjeXx-nXNdWUKlDGOGZ2/view?usp=sharing</a>

### 2.7 - Student Satisfaction Survey

#### 2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a weblink)

[https://drive.google.com/file/d/1IyFbYTn4A9OxJrxcR3m\\_2iBRYWSFDlda/view?usp=sharing](https://drive.google.com/file/d/1IyFbYTn4A9OxJrxcR3m_2iBRYWSFDlda/view?usp=sharing)

## 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 year (INR in Lakhs)

##### 3.1.1.1 - Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

3.53

File Description	Documents
Any additional information	<a href="#">View File</a>
e-copies of the grant award letters for sponsored research projects /endowments	<a href="#">View File</a>
List of endowments / projects with details of grants(Data Template)	<a href="#">View File</a>

### 3.1.2 - Number of teachers recognized as research guides (latest completed academic year)

#### 3.1.2.1 - Number of teachers recognized as research guides

5

File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

### 3.1.3 - Number of departments having Research projects funded by government and non government agencies during the year

#### 3.1.3.1 - Number of departments having Research projects funded by government and non-government agencies during the year

1

File Description	Documents
List of research projects and funding details (Data Template)	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Supporting document from Funding Agency	<a href="#">View File</a>
Paste link to funding agency website	Nil

## 3.2 - Innovation Ecosystem

3.2.1 - Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

**Even in the face of uncertainty of lockdown, the online and offline**

mode Institute continued its efforts to foster the culture of innovation among its staff and students. Reaching the students by whatever ways, online or offline, Institute continued imparting quality content on innovation, entrepreneurship and IPR to the students by way of various events, workshops, and competitions.

To make sure that the students come out from the rote learning habit and become problem solvers, they were encouraged, insisted on having some real life problems and some new, innovative solutions to it through their mini and major projects. Proper rubrics designed for awarding marks were already in place which the students were made aware of. This learning intervention led to significant improvement in the quality of project ideas students took for their projects. This resulted in registration of several copyrights and publication of research papers in the academic year 2021-22.

In addition to these things the access to the quality learning resources like coursera, Star certification courses, CISCO courses was made available and students were encouraged to use it as much as possible. This helped students as well as staff a lot for developing their subjects.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://www.sakec.ac.in/">https://www.sakec.ac.in/</a>

### 3.2.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year

#### 3.2.2.1 - Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during the year

63

File Description	Documents
Report of the event	<a href="#">View File</a>
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	<a href="#">View File</a>

### 3.3 - Research Publications and Awards

#### 3.3.1 - Number of Ph.Ds registered per eligible teacher during the year

##### 3.3.1.1 - How many Ph.Ds registered per eligible teacher within the year

0

File Description	Documents
URL to the research page on HEI website	Nil
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

#### 3.3.2 - Number of research papers per teachers in the Journals notified on UGC website during the year

##### 3.3.2.1 - Number of research papers in the Journals notified on UGC website during the year

50

File Description	Documents
Any additional information	<a href="#">View File</a>
List of research papers by title, author, department, name and year of publication (Data Template)	<a href="#">View File</a>

#### 3.3.3 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

##### 3.3.3.1 - Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during year

32

File Description	Documents
Any additional information	<a href="#">View File</a>
List books and chapters edited volumes/ books published (Data Template)	<a href="#">View File</a>

### 3.4 - Extension Activities

3.4.1 - Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year

When developing as competent engineers, it is necessary that students are aware of different societal problems, our culture and values that makes it unique. This objective was very well fulfilled by the activities organized by the SAKEC - NSS department. The activities became even more planned, systematic and hence more effective as the programs by NSS are conducted under the guidance of the University and the state Government. In the academic year 2021-22, 31 extension activities were conducted by the SAKEC NSS unit. The activities spanned from simple awareness sessions to vaccination drive, blood donation, celebration activities like Azadi Ka Amrut Mahotsav etc.

The activities enhanced students' awareness about the culture and society. It enriched them as a sensitive human beings when they were exposed to the problems different, especially underprivileged sector of the society going through. Because of NSS, events like Azadi ka Amrut Mahotsav was implemented effectively in the Institute in which they remembered, celebrated the outcome of several martyrs who sacrificed their lives for the freedom we are experiencing.

File Description	Documents
Paste link for additional information	<a href="https://www.sakec.ac.in/">https://www.sakec.ac.in/</a>
Upload any additional information	No File Uploaded

**3.4.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year**

**3.4.2.1 - Total number of awards and recognition received for extension activities from Government/ Government recognized bodies year wise during the year**

1

File Description	Documents
Any additional information	No File Uploaded
Number of awards for extension activities in last 5 year (Data Template)	<a href="#">View File</a>
e-copy of the award letters	<a href="#">View File</a>

**3.4.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., ( including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs ) during the year**

**3.4.3.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year**

31

File Description	Documents
Reports of the event organized	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	<a href="#">View File</a>

**3.4.4 - Number of students participating in extension activities at 3.4.3. above during year**

**3.4.4.1 - Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year wise during year**

1649

File Description	Documents
Report of the event	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	<a href="#">View File</a>

### 3.5 - Collaboration

### 3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year

#### 3.5.1.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year wise during the year

301

File Description	Documents
e-copies of related Document	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Details of Collaborative activities with institutions/industries for research, Faculty	<a href="#">View File</a>

### 3.5.2 - Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year

#### 3.5.2.1 - Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the year

12

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	<a href="#">View File</a>
Any additional information	No File Uploaded
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	<a href="#">View File</a>

## 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.

As an important step towards realizing its vision of imparting quality education, the Institute has a state-of-the-art infrastructure in its campus of 6189 sqm. The infrastructure is created as per the guidelines by AICTE and other statutory bodies.

1. **Classrooms:** There are 34 ICT enabled, well-furnished classrooms

with good ventilation available out of which 13 classrooms are equipped with smart boards.

2. Laboratories: The Institute has 54 well equipped laboratories out of which 33 are dedicated computer laboratories ready with powerful machines and licensed software's.

3. Auditorium: A high tech auditorium with the capacity of 250+ and fully furnished, modern 06 Seminar halls are used for all technical and cultural activities.

4. Library: A well-equipped library maintains 27779 book volumes, 2581 e-book titles and 7 online databases. It is an institutional member of IIT Bombay, Tata Institute of Social Science (TISS) library and National Digital Library.

5. Other facilities include - drawing halls, workshop, store room, placement cell, counselling centre, girls' common room, examination section and administrative office.

6. IT Facilities: The institute has a central server with 1056 computing machines in working condition. Institute uses its website, email, SMS and other social media platforms for faster and effective communication.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

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

Being committed to the overall growth of the students, the institute has developed sound infrastructure for exercise and sports. There is a fully air-conditioned and equipped gymnasium, developed in 2015-16 with a 200 sqm area and indoor sports facility. The gymnasium is supervised by a gym instructor. Recreation of energy is an important aspect of college life for the students. To give full opportunity to enjoy it, a multipurpose outdoor sports facility is made available to the students to play various outdoor sports. In addition, college utilizes a BMC ground with an area of 3780sqm to satisfy most of the outdoor sports requirements. Utilizing these facilities fully, the SAKEC students have participated in various University, State,

National and International level tournaments and won medals. The International Yoga Day is celebrated in the institute every year on 21st June from 2015. NSS activity is also started for students. SAKEC annual festival, Pratishtha which is a confluence of Verve, Olympus and Nucleus gives full opportunity to the students to explore and unleash their talents. The 283.76sqm high-tech auditorium established in the year 2012-13 with a capacity of 250+ in the college and nearby Aangan Lawns is also used to conduct cultural activities

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

#### 4.1.3 - Number of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc.

36

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View File</a>

#### 4.1.4 - Expenditure, excluding salary for infrastructure augmentation during the year (INR in Lakhs)

##### 4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

762.71453

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Upload audited utilization statements	No File Uploaded
Upload Details of budget allocation, excluding salary during the year (Data Template)	<a href="#">View File</a>

## 4.2 - Library as a Learning Resource

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

The Institute has a very good, spacious, well ventilated, and well-furnished library with a huge reading hall, and a large collection of books related to the curriculum, self-improvement and personality development. Library subscribes to a number of national and international journals devoted to technical subjects to help students to keep themselves updated with the latest developments.

The library has a dedicated computer facility for using online resources NVDA (Non-Visual Desktop Access) Screen Reader facility is available in the library. Automation of the Library plays an important role in supporting academic programmes. SAKEC has developed its own In-house ILMS Software called Library. Database of all the books is maintained up to date.

- Daily issue/return records can be obtained.
- There is a provision for adding the master database of Vendors, Publishers, fine etc.
- Branch wise book details can be generated.
- Overdue report and overdue letter for students can also be generated.
- Yearly book purchase detail report can be generated.
- Accession register can be generated.
- Barcode printing option is available.
- Web OPAC linked to ILMS has facility for searching by Author,

**Title, and Keyword.**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for Additional Information	Nil

**4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources**      **A. Any 4 or more of the above**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	<a href="#">View File</a>

**4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e- journals during the year (INR in Lakhs)**

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

**59.47**

File Description	Documents
Any additional information	<a href="#">View File</a>
Audited statements of accounts	No File Uploaded
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	<a href="#">View File</a>

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

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

**74**

File Description	Documents
Any additional information	<a href="#">View File</a>
Details of library usage by teachers and students	<a href="#">View File</a>

### 4.3 - IT Infrastructure

#### 4.3.1 - Institution frequently updates its IT facilities including Wi-Fi

The IT infrastructure is a state-of-the-art infrastructure. It includes several high-end servers, firewalls, workstations, routers, switches and latest versions of premium, licensed software, projectors, laptops, smart boards, printers etc. Institute has Licensed software's like Windows Operating System, Oracle 12c, Clementine, Microsoft Teams etc.

The Institute also promotes the use of free as well as open-source software.

Following are some of the premium hardware and software resources available in the Institute:

**Server:** Institute has three centralized servers out of which main server issued as an application server and two servers are used as a domain server.

**Firewall:**gajshield 360dci the main firewall to meet the growing security needs.

**Router:** SAKEC has Cisco router and Leased line for the whole college with 500Mbps internet speed.

**Networking Switch:**SMC/ Acton Cheetah Switches, SMC EZ /Tiger Switches, DLink switches are used.

**Computing Facilities:** Institute has computing machines with configuration as i5 processor, 4GB RAM,500GB hard disk, 3.10 GHz CPU speed with licensed operating system. Internet and Wi-Fi: The campus has internet connection of 500 Mbps bandwidth, providing anytime anywhere access to knowledge and learning resources. In SAKEC all students and staff members are provided with an Email id of 'sakec.ac.in'.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

#### 4.3.2 - Number of Computers

1056

File Description	Documents
Upload any additional information	<a href="#">View File</a>
List of Computers	<a href="#">View File</a>

#### 4.3.3 - Bandwidth of internet connection in the Institution A. ? 50MBPS

File Description	Documents
Upload any additional Information	No File Uploaded
Details of available bandwidth of internet connection in the Institution	<a href="#">View File</a>

#### 4.4 - Maintenance of Campus Infrastructure

##### 4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)

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

154.874

File Description	Documents
Upload any additional information	No File Uploaded
Audited statements of accounts	<a href="#">View File</a>
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	<a href="#">View File</a>

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.

Cleanliness beautifies the campus, makes it delightful and makes focussing on study much easier. Knowing this, every effort is made to make the campus clean and beautiful. The Institute sees to it that all resources in the campus are always up and running. It is made possible by having a robust system and well-defined procedures for maintenance of all facilities. The procedure is followed as below for the maintenance: -

- The request for maintenance is entered in a register maintained by Estate Manager at the Institute level.
- The maintenance schedule is then executed with the support of external agencies.
- Emergency maintenance is carried out on priority basis.

a) Routine Maintenance Cleaning, Dusting, Sweeping and Mopping of all areas is undertaken daily by contractual housekeeping staff.

b) Preventive Maintenances: In preventive maintenances Electrical, AC, Lifts, Water coolers and purifiers, Pest control, Gymnasium, Fire Extinguisher maintenance is done periodically by contractual agency.

The institute has a full-time maintenance engineer for carrying out IT maintenance.

Every laboratory assistant maintains a complete record maintenance in the maintenance Register.

The books are kept in good condition by binding them regularly. Review and discard of obsolete books are carried out periodically.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

## STUDENT SUPPORT AND PROGRESSION

## 5.1 - Student Support

### 5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

#### 5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

913

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	<a href="#">View File</a>

### 5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

#### 5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year

08

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	<a href="#">View File</a>

**5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills  
Language and communication skills Life skills  
(Yoga, physical fitness, health and hygiene)  
ICT/computing skills**

**A. All of the above**

File Description	Documents
Link to Institutional website	Nil
Any additional information	<a href="#">View File</a>
Details of capability building and skills enhancement initiatives (Data Template)	<a href="#">View File</a>

#### **5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year**

477

##### **5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year**

477

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	<a href="#">View File</a>

**5.1.5 - The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees**

**A. All of the above**

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View File</a>

## 5.2 - Student Progression

### 5.2.1 - Number of placement of outgoing students during the year

#### 5.2.1.1 - Number of outgoing students placed during the year

433

File Description	Documents
Self-attested list of students placed	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Details of student placement during the year (Data Template)	<a href="#">View File</a>

### 5.2.2 - Number of students progressing to higher education during the year

#### 5.2.2.1 - Number of outgoing student progression to higher education

44

File Description	Documents
Upload supporting data for student/alumni	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Details of student progression to higher education	<a href="#">View File</a>

#### 5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

### 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) during the year

54

File Description	Documents
Upload supporting data for the same	No File Uploaded
Any additional information	<a href="#">View File</a>
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	<a href="#">View File</a>

## 5.3 - Student Participation and Activities

### 5.3.1 - 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) during the year

#### 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) during the year.

01

File Description	Documents
e-copies of award letters and certificates	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	<a href="#">View File</a>

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 )

SAKEC aims for all round development of students and hence has established student council at College level. The primary objective of creating Student Council is to assimilate and integrate the

students from all the constituent departments to provide them with a platform to harness their creative activities in an integrated manner. The Student council, being the apex body organizes various activities with the help of the other cells.

Pixel, Nucleus - the technical fest, and Prathista - the cultural fest are some of the most looked upon events that enrich the experience of students community. During the lockdown period online events were conducted.. Apart from these, we also have events and competitions conducted by the various student-run Cells which keep the students active throughout the year.

Institute organizes industrial visit within india as well as around the globe, where students able to interact with industry expert and get the knowledge of industry operation. Student bodies and coordinator plays crucial role in organizing Industrial visit successfully. However in this year due to lockdown in various parts of world industrial visit could not be conducted.

SAKEC provides holistic learning experience to develop managerial capabilities of its graduates. It has well defined processes in place to help students develop their leadership and decision-making skills. The various cells/Professional bodies facilitate student development.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

**5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)**

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

File Description	Documents
Report of the event	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions (Data Template)	<a href="#">View File</a>

## 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

The SAKEC Alumni Association was established on 28/04/2022. Alumni cell was formed in 2018. Alumni are the valuable/Greatest assets of SAKEC.

SAKEC maintains a strong and affectionate bond with its alumni which helps SAKEC to grow not only in the educational field but also socially. SAKEC Alumni guides students for better placement opportunities and Higher studies also Mentorship and Internships.

The key areas where alumni significantly contribute.

1. **Career Guidance:** Alumni play a crucial role in guiding students to success through active participation in the Student Guidance program.
2. **Mentorship:** Alumni cell provide a platform to foster meaningful mentoring relationships between alumni and students.
3. **Internship:** Alumni Plays a significant role in providing Internship to deserving candidates in their organization.
4. **Placement:** Alumni also donate their valuable time to offer career support to current students. This enhances the student's experience and gives them an edge in today's competitive job market.
5. **Workshop and Seminar:** Institute's various departments in

collaboration with Alumni cell conduct different workshops and seminars to guide students in different technical domains.

6. **Alumni Cell:** Alumni cell in SAKEC helps to foster and bridge the interaction between the institute and its Alumni.
7. **Samparka:** SAKEC celebrates Annual Alumni meet "SAMPARKA "every year, this year it was conducted in online mode.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

#### 5.4.2 - Alumni contribution during the year (INR in Lakhs) E. <1Lakhs

File Description	Documents
Upload any additional information	<a href="#">View File</a>

## 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

To provide quality technical education, the Shah and Anchor Kutchhi Engineering College was founded in 1985. Institute is NBA accredited and has ISO certification.

In order to keep up with the most recent innovations, we continuously upgrade faculty skills, infrastructure, and teaching methods in addition to conducting periodic reviews of the academic environment and management system. While doing so, we make sure that the self-financed minority educational institution is adhering to all applicable laws, rules, and regulations. In order to upgrade technical skills of staff members, they are encouraged to participate in STTP, FDP and workshops.

The college development committee tracks college's academic progress.

Our students' academic performance is always improving , and they are inspired to participate in national-level project contests like the Smart India Hackathon and other coding competitions, where they have won numerous awards. Many of our students are hired by reputable companies as a result of the placement cell's ongoing efforts.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

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

An important responsibility of the institution is to have smooth admission of candidates as per the DTE norms. In order to define policies and procedures, frame guidelines, and establish rules and regulations relevant to admission in accordance with DTE norms, the Principal, Admission in charge and College Council are involved. Various committees have been formed to ensure the planning and implementation of admissions. Special guidance sessions are conducted for aspiring students. The Student Induction Program is held for first-year newly admitted students as per the guidelines received from AICTE .The Student Induction Program is conducted and monitored by SIP coordinator and head of Department and committee members under the guidance of Principal. The Participative Management at the Institute is represented by this event.

Case study II:

#### TECHNOVATION- NATIONAL."LEVEL PAPER PRESENTATION

In association with the Directorate of Technical Education Maharashtra the Department of Electronics and Telecommunication Engineering at Shah & Anchor Kutchhi Engineering College in Mumbai conducted "TECHNOVATION- NATIONAL."LEVEL PAPER PRESENTATION", This event reflects the participatory management of the Institute. The paper presentation was organized and execution done by committee members, staff members and students. This was a successful event .

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

## 6.2 - Strategy Development and Deployment

### 6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

In order to encourage the staff and students to explore and learn about the rich culture and heritage of India, SAKEC Research Cell collaborated with Indian Knowledge System, Ministry of Culture India. In February 2022, through AICTE's IKS programme, SAKEC Research cell commenced internship programs for students and mentor programs for staff.

Laboratory upgradation with latest PC configuration has been planned and four computer laboratories will be modified accordingly.

To boost writing and oratory skills of students, SAKEC celebrated Mother Language Day on 21st February 2022, wherein SAKEC Writers' Cell SAKEC Sambodhi, Speakers' Club and Students Council collaborated to conduct Essay competitions, debates and cultural programmes in various Indian languages. This tradition will be followed every year henceforth.

The Institution also marked Womens' Day 2022. The Internal Complaints Committee conducted an essay competition and poster competition in association with SAKEC NSS and SAKEC Sambodhi, for women empowerment.

From January 2022, the institution commenced hybrid lectures, as few students preferred classroom teaching and few wished to attend online. Camera stands were procured for every department, so the teachers could record their classroom lectures and stream them online through Microsoft teams. essay competitions.

Two teams from SAKEC, "Coll\_SAKEC\_1" and "Coll\_SAKEC\_2" outperformed in the Data Mining Cup.

The IPR cell filed 26 and registered 24 copyrights. The Research Cell has commenced 21 new projects under its umbrella.

File Description	Documents
Strategic Plan and deployment documents on the website	<a href="#">View File</a>
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

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

On top of the hierarchy in Shah and Anchor Kutchhi Engineering College, is the Management Trust Board and the Governing Body, constituted as per the guidelines of AICTE. The institute is managed by the Management Board and follows the norms of University of Mumbai, and the rules set by Government of Maharashtra.

For decentralizing all its operations, Principal has assigned authority to various heads, at different levels. . Principal takes guidance, directions and approvals from the Governing body and the Management Trust Board for various activities of the Institute.

The Administrative and academic activities are headed and monitored by the Principal, for the smooth functioning of all the bodies that fall in the chart.

The Institute has HR & Internship executive to decimate information about internship opportunities and other announcements to staff and students. The Institute has IQAC and other committees working under Principal for strengthening the academic quality.

The HoDs, Deans, Registrar, HR & Internship executive, Librarian and Student Council plan the academic calendar and for conduction of various activities in the institute. Examination Cell monitors smooth conduction of examinations. Training and Placement Cell works to provide opportunities to students.

The admission procedure is handled by the admission committee.

All departments and Professional bodies and cells have the authority to conduct activities under their umbrella, with Principal's guidance.

Service books of all staff members are maintained by the office .

File Description	Documents
Paste link for additional information	Nil
Link to Organogram of the institution webpage	<a href="https://www.shahandanchor.com/home/wp-content/uploads/ornanogram-21-22-scaled.jpg">https://www.shahandanchor.com/home/wp-content/uploads/ornanogram-21-22-scaled.jpg</a>
Upload any additional information	<a href="#">View File</a>

### 6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Document	<a href="#">View File</a>
Screen shots of user inter faces	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	<a href="#">View File</a>

## 6.3 - Faculty Empowerment Strategies

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

### Welfare schemes

#### Common Welfare scheme

1. Conduction awareness program Like Yoga session.
2. Availability of councilor to solve psychological problems in this Covid pandemic.
3. Encouragement through reimbursement to scholars for MOOC exams
4. Encouragement through Higher Studies policies for higher
5. Availability of Digital library facility with good subscriptions.

6. Availability of recreational activities, Sports & Gymkhana

7. Opportunity to conduct/ attend webinars of IIT Bombay remote centre, IEEE, and AICTE.

8. Conduction of training programs, seminars, workshops, etc. on a regular basis to update skill sets and the core competency

#### Teaching

1. Implementation of PF Facility as per government norms

2. Implementation of Gratuity for the retiring staff members

3. Group Insurance

4. Book Allowance of 1000/- per year

5. Reimbursement scheme to encourage staff to attend training session, publication of technical paper.

6. Reimbursement for professional membership to encourage the staff for active participation

7. Through Research Promotion Scheme, interested faculty members are given opportunities to work on research projects through various MoUs signed by the institute.

#### Non-teaching

1. Implementation of PF Facility as per government norms

2. Implementation of Gratuity for the retiring staff members

3. Group Insurance

4. Medical allowance of Rs.3500

#### Students

1. Facility of insurance

2. Flexibility of Fees Payment in instalments.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

### 6.3.2 - Number of teachers provided with financial support to attend conferences/ workshops and towards membership fee of professional bodies during the year

#### 6.3.2.1 - Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the year

5

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	<a href="#">View File</a>

### 6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

#### 6.3.3.1 - Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff during the year

27

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	No File Uploaded
Reports of Academic Staff College or similar centers	No File Uploaded
Upload any additional information	<a href="#">View File</a>
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	<a href="#">View File</a>

### 6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

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

62

File Description	Documents
IQAC report summary	No File Uploaded
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	No File Uploaded
Upload any additional information	<a href="#">View File</a>
Details of teachers attending professional development programmes during the year (Data Template)	<a href="#">View File</a>

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

The Institute effectively uses three systems of Performance appraisal for staff.

#### [A] Staff Appraisal form:

1) Teacher Appraisal: Performance appraisal of all the teaching staff is filled and recorded.

The proper procedure is followed for the same. Scrutinization is done by Head of the Department and forwarded to the Principal.

2) Appraisal system for non-teaching staff -Non-teaching staff performance is evaluated in every academic year based on co worker attitudes, staff/student relationships, dependability, attendance/job performance, initiative, response to supervision, method of expression, and related accomplishments. The finest non-teaching staff of the year award is awarded to show appreciation for workers and to encourage others to work with enthusiasm. For non-teaching personnel, there is a different form and procedure.

[B] Career Advancement Schemes: Staff academic successes are rewarded by the institute through career promotion programmes for completion of further education and professional accomplishments. Teachers are evaluated and promoted to higher grade pay on a regular basis depending on the following criterias:

- Completion of M.E, PhD
- STTP and QIP courses
- Patents/Awards received.
- Experience in number of years in same designation

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

## 6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

Shah and Anchor Engineering College has a team which conducts the internal audit on a regular basis. The accounts department maintains an appropriate record of all the account statements. Every year college prepares a budget well in advance in which provision is made for all possible expenses and purchases. During budget preparations requirements of various departments, cells are taken into consideration in addition to that of possible hike in salary due to increased DA, Gratuity, and building maintenance. Every department is provided with two lakh rupees which the department utilizes as per budget policy. Institute has appointed an external auditor to conduct regular audit, to verify and certify the entire recurring and non-recurring and the Capital Expenditure of the institute every year.

Auditing of all financial transactions are done by in-charges of various chapters such as ISTE, IETE, IEEEE, ACM, CSI. Use of good quality software is made in maintaining all financial records. Regular monitoring of fund flow helps in maintaining the financial health of the college.

So far there have been no major objections from any of the auditors. Minor errors pointed out by the audit team were corrected immediately. Regular monitoring of fund flow helps in maintaining the financial health of the college.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

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

##### 6.4.2.1 - Total Grants received from non-government bodies, individuals, Philanthropers during the year (INR in Lakhs)

0

File Description	Documents
Annual statements of accounts	No File Uploaded
Any additional information	No File Uploaded
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	<a href="#">View File</a>

#### 6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

The SAKEC has a well distinct practice for screening active and competent operation of available financial resources for development of infrastructure and academic processes. Management of college takes an active part in this regard. Strong financial position of the trust helps in developments of laboratories, purchase of hi-tech and required instruments and software's. For every academic year, the budget is prepared well in advance after taking into consideration the requirements of every Department. Each department prepares its own budget based on its requirements such as equipment, software, computers, printers, etc for student and faculty activities, research and development in the department, as well as consumables required for the next academic session. Principal puts up the budget in the Governing Body Meeting. After discussion and necessary corrections or modifications, the Governing Body recommends the budget for approval. The budget is reviewed by the

management and approved after necessary changes. For an unplanned purchase or any other activity, the institute makes a provision for advance additional funds. The Principal and the Head of Departments discuss the requirements and decide the priorities while allocating financial resources for various purposes and also ensure optimum use of available financial resources. Periodically, the Governing Body monitors the annual expenditure, scrutinizes the budget and provides feedback related to efficient use of financial resources.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

## 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

Planning for ,Conducting workshops, FDPs on emerging technologies ,Conducting Guest Lectures from Industry/Experts is done by IQAC. It monitors and evaluate the teaching & learning processes, with the feedback from the stake holders.. IQAC cell had planned preparation of operating manual for various cells of the institute and currently all the cells have operating manuals.

### Best practices - 1

Based on the academic calendar issued by the University, Institute defines the schedule for the academic year and publishes the academic calendar. Academic calendar is prepared by dean of academics in coordination with the IQAC cell of the institute. Various activities, like FDP, student development programs ,guest lectures ,cultural events are planned in the beginning of semester

### Best practices 2

Usage of smart classrooms in all departments.

Based on the feedback received from the students and faculties. It was the IQAC initiative to implement the smart class room in the campus. The use of smart classes promotes more interaction between

teacher and student . The use of smart classes and modern technology makes the learning easier. It also provides academic and digital learning. Smart classes use all interactive modules like presentations and videos and these visually attractive methods of teaching.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

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

Institute reviews teaching learning process and make improvements in subsequent years .

#### Example - 1

##### Teaching and Learning Process (TLP)

Institute believes need for updating knowledge. To keep up with the current trends institute sends the faculty for faculty development program in the area of their teaching subjects. Institute provides training in soft skill and technical skill training through the training and placement division. Innovation and Entrepreneurship Development cell helps the students to come with their innovative ideas which they can convert into a product. Project and poster competition are arranged every year to motivate the students. Series of guest lectures were arranged by IQAC cell on emerging areas of science and technology for staff and students. Students are encouraged for the industrial visit and internship during their studies.

#### Example - 2

##### Feedback Mechanism

At the end of the semester feedback is taken from the students. Feedback is collected consolidated and analysed by each department. The corrective actions are always implemented. Feedback is collected for Extra & Co-curricular activity. Parent teacher meeting is held

once in a semester and parent's feedback is collected, analysed and implemented. Feedback is also collected from alumni action is taken accordingly. Institute has taken facility feedback from staff members.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

**6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)**

**A. All of the above**

File Description	Documents
Paste web link of Annual reports of Institution	Nil
Upload e-copies of the accreditations and certifications	No File Uploaded
Upload any additional information	<a href="#">View File</a>
Upload details of Quality assurance initiatives of the institution (Data Template)	<a href="#">View File</a>

## **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 year

**Institute initiated to promote gender equity by conducting different activities.**

SAKEC ICC organised a Poster Making Competition on BalanceTheBias - Empower a Woman to Empower the Next Generation on 18th march 2022.

Institute Promoted to Google sponsored Program - Women Engineer for girl students on 14th March 2022.

SAKEC Sambodhi, in Association with ICC conducted an essay competition on Women Empowerment from 9th to 16th March 2022.

E Cell SAKEC in collaboration with ICC,CSI,NSS,NDLI organized an online webinar on Women Entrepreneurship on the occasion of Women's Day 8th March 2022.

NSS-SAKEC organized self defense training on 25th October 2021.

NSS SAKEC organized a breast cancer awareness session in collaboration with Techfest, IIT Bombay on 8th October 2021.

NSS SAKEC in collaboration with ICC organized a webinar on the topic "Special Laws for Women" on 7th August 2021.

SAKEC IT department in collaboration with ACM student chapter organised an online event on "Yoga practices of metabolic health"on 7th August 2021.

NSS SAKEC organized a workshop in collaboration with Art of Living on 26th,27th and 28th July 2021.

The institute has CCTV, female security guard,Girls Common Room,Counsellor and Woman's Safety Board facilities for safety and security purpose.

File Description	Documents
Annual gender sensitization action plan	<a href="https://www.shahandanchor.com/home/NAAC_Images/AQAR/2021-22/7.1.1_21_22%20Annual%20gender%20sensitization%20action%20plan.docx.pdf">https://www.shahandanchor.com/home/NAAC_Images/AQAR/2021-22/7.1.1_21_22%20Annual%20gender%20sensitization%20action%20plan.docx.pdf</a>
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	<a href="https://www.shahandanchor.com/home/NAAC_Images/AQAR/2021-22/7.1.1_21_22_Facilities_for_women.pdf">https://www.shahandanchor.com/home/NAAC_Images/AQAR/2021-22/7.1.1_21_22_Facilities_for_women.pdf</a>

**7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power efficient equipment**

**A. 4 or All of the above**

File Description	Documents
Geo tagged Photographs	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management**

**1) Solid Waste Management:**

Major solid waste produced on campus is in the form of papers. To manage it, the college has a shredding machine in the exam cell and administrative office.

The concept of paperless office is implemented in the institute. Some of the paperless activities are staff attendance using biometric, salary slips are mailed to official addresses, staff and students to use emails for communication and maintaining and sharing information from online storage.

Another major solid waste is plastic, it recycling initiative by the Bisleri International Pvt. Ltd., aims at creating awareness among the citizens about the importance of efficient disposal and recycling of plastic. Faculties of SAKEC, participated in event

"Bottles for change" on 6th Sep 2021, plastic collection drive on 11th April 2022.

## 2) Liquid waste management

The institute is located in the Mumbai area and all its liquid waste is managed by the Brihanmumbai Municipal Corporation. The liquid waste is sent to sewage treatment plants for processing.

## 3) E-waste management

Irreparable instruments are mentioned in the scrap equipment list prepared by each department. Institute has signed MOU with M/s Click Computers for collection and disposal of E-Waste. Institute has organized an E-waste collection drive on 19 th May 2022. Around 17 Kgs E-waste was collected by M/S Click computers.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	<a href="#">View File</a>
Geo tagged photographs of the facilities	<a href="#">View File</a>

**7.1.4 - Water conservation facilities available in the Institution:** Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

A. Any 4 or all of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

## 7.1.5 - Green campus initiatives include

**7.1.5.1 - The institutional initiatives for greening the campus are as follows:**

A. Any 4 or All of the above

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered vehicles

**3. Pedestrian-friendly pathways****4. Ban on use of plastic****5. Landscaping**

File Description	Documents
Geo tagged photos / videos of the facilities	<a href="#">View File</a>
Various policy documents / decisions circulated for implementation	<a href="#">View File</a>
Any other relevant documents	<a href="#">View File</a>

**7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution**

**7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following**  
**1.Green audit 2. Energy audit**  
**3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities**

**D. Any 1 of the above**

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	No File Uploaded
Certification by the auditing agency	No File Uploaded
Certificates of the awards received	No File Uploaded
Any other relevant information	<a href="#">View File</a>

**7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities (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**

**A. Any 4 or all of the above**

File Description	Documents
Geo tagged photographs / videos of the facilities	<a href="#">View File</a>
Policy documents and information brochures on the support to be provided	<a href="#">View File</a>
Details of the Software procured for providing the assistance	No File Uploaded
Any other relevant information	<a href="#">View File</a>

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 200 words).

### 1. Immunity Enhancement

Program in association with The Art of Living;

NSS SAKEC organised a three day workshop in collaboration with Art of Living from 26th to 28th July, 2021.

#### 1. Special Laws for Women

NSS organized a webinar on Special Laws for Women on 7th Aug 21

#### 1. Slogan Making on Independence Day

Slogan Making Competition was organized on the occasion of 75th Independence Day as a tribute to the sacrifices of our brave Indian freedom fighters.

#### 1. Tribute to first chief of Indian Defense Bipin Rawat and Others

NSS SAKEC organized an online session to pay tribute to first chief of Indian Defense Bipin Rawat and Others on 12th December 2021.

#### 1. Quiz on 125th Birth anniversary of Netaji Subhash Chandra Bose

NSS SAKEC organized an online quiz on the topic of birth anniversary of Netaji Subhash Chandra Bose.

#### 1. WOMEN ENTREPRENEURSHIP

On occasion of International women's day E-CELL SAKEC in collaboration with IQAC-SAKEC, CSI-SAKEC, NDLI-SAKEC, and NSS SAKEC has organised the event named "Meet the Entrepreneur"

on 8th march 2022.

#### 1. National Girl Child Day

NSS SAKEC celebrated National Girl Child day on 24th of January, 2022 by taking selfie with daughter

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

7.1.9 - Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

Institute organised many events to inculcate values, rights to students and staff, making them responsible for their duties.

1. SAKEC organized a Blood donation camp from 22nd Sep to 25th Mar 22 for Cancer patients in collaboration with 'Youthon the Move' NGO, in association with Tata Memorial Hospital.

2. A virtual awareness activity was organized from 23rd Sep to 29th Sep 21 as HIV Campaign. This activity was organized under 'New India @75 Activities' with the aim of spreading awareness about AIDS.

3. A beach cleaning drive was organized on 15th Dec 21 as a part of 'Celebrating Rivers of India' under the event of 'Azadi ka Amrit Mahotsav'.

4. NSS organized a webinar on Menstrual Hygiene of women on 7th Mar 22.

5. NSS organized 'Poshan Vatika" from 3rd Sep to 5th Sep 21, in which a number of trees were planted in different areas.

6. NSS organized a two day virtual event of Recipe Competition : Nutritious food fro pregnant women from 9th to 10th Sep 21.

7. NSS organized a 'Nutritious Kit Distribution' drive for children on 24th Sep 21 as a part of Suposhit Bharat under Poshan Maah.

8. NSS organized 'Breast Cancer Awarness' session on 8th Oct 21 in collaboration with Techfest IIT Bombay.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	<a href="https://www.shahandanchor.com/home/NAAC_Images/AQAR/2021-22/7.1.9.pdf">https://www.shahandanchor.com/home/NAAC_Images/AQAR/2021-22/7.1.9.pdf</a>
Any other relevant information	Nil

**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. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff**      **A. All of the above**

**4. Annual awareness programmes on Code of Conduct are organized**

File Description	Documents
Code of ethics policy document	<a href="#">View File</a>
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	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

NSS SAKEC organized a Slogan Making Competition on the occasion of 75th Independence Day as a tribute to the sacrifices of our brave Indian freedom fighters.

NSS SAKEC organized a quiz and slogan making competition and made everyone take pledge on the occasion of Gandhi Jayanti 2nd October 2021.

NSS SAKEC had organized a webinar to celebrate Rashtriya Ekta Diwas on 31st August 2021 to mark the birth anniversary of Sardar Vallabhbhai Patel .

NSS SAKEC celebrated Constitution day by reading Preamble of the Constitution of India on 26 November 2021.

NSS SAKEC organized a Poster making competition on "World Aids Day " 1st December 2021.

NSS volunteers of SAKEC celebrated the 50th anniversary of the 1971 Indo-Pak war on 18th December 2021.

NSS SAKEC organized a Webinar on the topic "Importance and Awareness of Voting" on 25th January 2022 the eve of National Voters Day.

SAKEC SAMBODHI organized a Mother Language Day on 21st February 2022, an Intra College Essay Writing Competition .

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	<a href="#">View File</a>
Geo tagged photographs of some of the events	No File Uploaded
Any other relevant information	No File Uploaded

## 7.2 - Best Practices

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

### Best Practice I:

#### 1. Title of the Practice:

Creating an IP landscape for the technical stakeholders to converge to techno-legal professionals.

#### 1. Objectives of the Practice

To encourage and provide direction to students and faculties for filing IPR applications and promoting better understanding of IPR.

#### 3. The Context

Intellectual properties are generated in the institution through many ways, such as research projects, internship and final year projects. SAKEC-IPR Cell is committed to encourage, protect & manage institution IPs.

#### 4. The Practice

The IPR Cell conducts a hands-on Session on Copyright and Patent Filing for faculty and Students. SAKEC IPRC mentor individual cases through oral or/and written communication. IPR Cell does hand holding till the entire process is complete. Offering IPR & Patenting as elective course SAKEC IPRC took the initiative.

#### 5. Evidence of Success

The faculty and students have inculcated the habit of Copyrighting their paper and Research work. Our faculty members have done IPR related courses. Institute is motivating faculty and students to file patent under Kalam Program for IP Literacy and Awareness.

## 6. Problems Encountered and Resources Required

As every individual IP is unique and has different requirements with varied backgrounds, it is challenging for IPRC members to understand each and then guide.

File Description	Documents
Best practices in the Institutional website	<a href="https://www.shahandanchor.com/home/NAAC_Images/AQAR/2021-22/7.1_Best_Practices.pdf">https://www.shahandanchor.com/home/NAAC_Images/AQAR/2021-22/7.1_Best_Practices.pdf</a>
Any other relevant information	<a href="https://www.shahandanchor.com/home/NAAC_Images/AQAR/2021-22/7.2_Any_Other%20Relevant_Information.pdf">https://www.shahandanchor.com/home/NAAC_Images/AQAR/2021-22/7.2_Any_Other%20Relevant_Information.pdf</a>

## 7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

The Institute, in line with its vision and mission, attempts to adapt to NEP2020 by offering a holistic and multidisciplinary learning environment. NEP2020 states that a notion of "liberal arts" must be brought back to Indian education, the institute has established various professional bodies and chapters which focus on various forms of art related to scientific, vocational, professional, and soft skills. This includes the Sambodhi writer's club to enhance written communication, Speaker's Club to initiate and develop effective communication, discussions, and debate, the Research cell to showcase creativity and innovation, the TL center to improve problem-solving, critical and higher-order thinking capabilities, SAKEC-NSS to inculcate social and civic responsibilities among students. Essay writing competitions on the topics of women

empowerment, India Shining and 'India's Diverse Multilingual Heritage'. Intra-college story/ Poem / Drabble writing contest on topics like Real Life Santa , Adjusting to the New Normal, Noiseless Diwali, and Kindness conducted by Sambodhi. Intra-Collegiate Wordplay event related to English Vocabulary by Speaker's Club. MoU signed by the institute with Suvidha Mahila Mandal a non-profit organization that aims to impart education among a financially challenged section of society. Institute continuously conducts events that focus on developing universal human values among students.

## Part B

### CURRICULAR ASPECTS

#### 1.1 - Curricular Planning and Implementation

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

SAKEC is affiliated to University of Mumbai and follows its curriculum. At the beginning of each semester, the academic calendar is prepared aligned with the academic calendar of the University. Group of similar courses in the curriculum are divided into various domains and has domain in-charge associated with it. They guide course in-charges of respective courses under that domain. If gap is identified in the syllabus, it is reported to the University so that it can be amended in the next syllabus revision. Gaps are managed by planning and conducting extra experiments, expert sessions or lectures by the teachers.

All faculty members maintain faculty diary that includes overall planning of lectures, lab experiments, students' projects and all other activities related to teaching and learning. Classroom teaching is augmented with ICT tools. Lecture and Practical monitoring of each faculty is done, feedback is taken and analyzed.

After every lab session, students are evaluated by conducting viva to check their understanding as part of continuous assessment process. Beyond curriculum experiments are conducted and students are encouraged to undertake real world problems for their mini-projects to bridge the gap between industry and academic curriculum.

Students participate in various national and international level competitions

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Link for Additional information	Nil

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

At the beginning of each term, academic dean prepares academic calendar of the institute aligned with the university academic calendar. All the academic activities strictly adhere to the calendar for the complete term. Ours is an ISO 9001:2015 certified institution which ensures quality standards in all academic activities All faculty maintain faculty dairy wherein weekly and day wise planning of lectures, lab experiments, students projects, etc. are done aligned with the academic calendar.

Internal assessment test schedule and date for declaration of results are planned in the academic calendar itself ,which helps the students to plan their activities. Institute plans and conducts remedial lectures for identified weak students after the first internal assessments. Schedule of practical/oral examinations are marked in the calendar and all examinations are held as per this schedule.

College has a well-functioning and effective student mentoring system. Meetings with mentors are conducted as per schedule in the calendar. Meeting with parents is planned once in the semester ,where they are briefed about the progress of their wards, added infrastructure and facilities of the college.

Extracurricular and co-curricular activities, sports, cultural programs, etc are planned in the calendar and executed accordingly.

Project based learning is encouraged for all the courses in the curriculum.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Link for Additional information	Nil

**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 year. Academic council/BoS of Affiliating University Setting of question papers for UG/PG programs Design and Development**

**B. Any 3 of the above**

**of Curriculum for Add on/ certificate/  
Diploma Courses Assessment /evaluation  
process of the affiliating University**

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**1.2 - Academic Flexibility**

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

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

06

File Description	Documents
Any additional information	<a href="#">View File</a>
Minutes of relevant Academic Council/ BOS meetings	No File Uploaded
Institutional data in prescribed format (Data Template)	<a href="#">View File</a>

**1.2.2 - Number of Add on /Certificate programs offered during the year**

**1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)**

11

File Description	Documents
Any additional information	<a href="#">View File</a>
Brochure or any other document relating to Add on /Certificate programs	No File Uploaded
List of Add on /Certificate programs (Data Template )	<a href="#">View File</a>

**1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year**

462

File Description	Documents
Any additional information	<a href="#">View File</a>
Details of the students enrolled in Subjects related to certificate/Add-on programs	<a href="#">View File</a>

### 1.3 - Curriculum Enrichment

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

The institute encourages and takes various initiatives to create awareness about important issues such as Gender, environment and Human Values. This helps to inculcate empathy and compassion towards less privileged people in our society and make them better human beings.

- Curriculum includes courses such as Environmental Studies, Professional communication & Ethics, Business communication & ethics, Cyber security, and IPR which address the issues of environmental sustainability & professional ethics.
- We have purchased URKUND plagiarism detection software to prevent copying in research and academic writing.
- Self defense workshops for women are regularly conducted. The institute ensures a safe environment for women on campus and supports gender equality in staff recruitments too. Institute conducts various CSR activities. Student Induction Program is mandatory for newly admitted students from 2019-2020 academic year.
- "Tree Plantation" events are conducted as an act to give back to Mother Nature. The students visited Gaushala under CSR activity to learn the importance of cows in our natural ecosystem.
- Research Cell had developed numerous projects for societal benefits.
- SAKEC-NSS unit has a self-finance organization of 50 volunteers established in the academic year 2021-2022 many social events.

File Description	Documents
Any additional information	<a href="#">View File</a>
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	<a href="#">View File</a>

### 1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

46

File Description	Documents
Any additional information	<a href="#">View File</a>
Programme / Curriculum/ Syllabus of the courses	<a href="#">View File</a>
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	<a href="#">View File</a>
MoU's with relevant organizations for these courses, if any	No File Uploaded
Institutional Data in Prescribed Format	<a href="#">View File</a>

### 1.3.3 - Number of students undertaking project work/field work/ internships

267

File Description	Documents
Any additional information	<a href="#">View File</a>
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	<a href="#">View File</a>

## 1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution

A. All of the above

<b>from the following stakeholders Students Teachers Employers Alumni</b>	
File Description	Documents
URL for stakeholder feedback report	<a href="https://drive.google.com/file/d/1QJ3Ao-ZyTN_FwKTTFDp-boW2ZpIa3syq/view?usp=share_link">https://drive.google.com/file/d/1QJ3Ao-ZyTN_FwKTTFDp-boW2ZpIa3syq/view?usp=share_link</a>
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
<b>1.4.2 - Feedback process of the Institution may be classified as follows</b>	<b>A. Feedback collected, analyzed and action taken and feedback available on website</b>
File Description	Documents
Upload any additional information	<a href="#">View File</a>
URL for feedback report	<a href="https://drive.google.com/file/d/1QJ3Ao-ZyTN_FwKTTFDp-boW2ZpIa3syq/view?usp=share_link">https://drive.google.com/file/d/1QJ3Ao-ZyTN_FwKTTFDp-boW2ZpIa3syq/view?usp=share_link</a>
<b>TEACHING-LEARNING AND EVALUATION</b>	
<b>2.1 - Student Enrollment and Profile</b>	
<b>2.1.1 - Enrolment Number Number of students admitted during the year</b>	
<b>2.1.1.1 - Number of students admitted during the year</b>	
<b>778</b>	
File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>
<b>2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of</b>	

**supernumerary seats)****2.1.2.1 - Number of actual students admitted from the reserved categories during the year**

778

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of seats filled against seats reserved (Data Template)	<a href="#">View File</a>

**2.2 - Catering to Student Diversity**

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

Institute has developed well-defined procedures for overall monitoring, evaluating, improving and catering diverse students according to diverse learning needs. Efforts are taken to make teaching-learning processes effective and interactive.

**Efforts for Identifying Students' Learning Levels:**

- Self-assessment during Induction Program through quizzes based on pre-requisites.
- Key indicators to assess learning levels:
- Student performance in
  - End-semester exam
  - Internal Assessments
  - Quizzes, Assignments, Game-Pedagogy, Mini Projects, Beyond Syllabus Experiments
  - Pre-Placement trainings
- Mentors identify learning abilities based on academic performance, participation in various activities, behavioural, psychological and social aspects.

Programs for Slow Learners:

- Remedial sessions to help students perform better in examinations. Special care for lateral entry students in semester-III.
- Examination-oriented coaching, well-formulated notes and practice questions clear concepts on any topic.
- E-books and subject-related videos.
- Divyang students provided extra time during written examinations.

Programs for Advanced Learners:

- Digital library
- Developing critical skills through thought-provoking questions
- Challenging projects
- Sessions to prepare for competitive exams
- Encouragement for participating in state and national-level competitions, securing university-level ranking, MOOCs, paper publication, internships, enrolling in professional bodies and student chapters

Outcomes:

- Improved overall passing percentage
- Increased number of
- High-performing students
- Competition winners.
- Admissions in premier National and International

**Institutions.**

- High-paying placement

File Description	Documents
Paste link for additional information	<a href="https://drive.google.com/file/d/lyRUFKNgSS_b66Z9J7wAPRvVkB7GxyM1N/view?usp=sharing">https://drive.google.com/file/d/lyRUFKNgSS_b66Z9J7wAPRvVkB7GxyM1N/view?usp=sharing</a>
Upload any additional information	<a href="#">View File</a>

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

Number of Students	Number of Teachers
2158	122

File Description	Documents
Any additional information	<a href="#">View File</a>

**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

SAKEC strongly believes in learning through experience for the improvement of students in all aspects. Hence, the institute practices various student centric methods for effective learning and provides the infrastructure accordingly to enhance the overall learning environment.

[A] Experiential Learning: Process of learning through hands-on experiences.

- Practical implementation of theoretical knowledge learned in the classroom.
- Institute organizes various workshops/training and competitions for students under various chapters/ professional bodies.
- Institute provides internships to students and facilitates them to work on industry projects.

[B] Participative Learning: Teachers and students together create a trusting and innovative learning environment and make use of a variety of teaching methods.

- Students Council formulate various student committees for planning and conducting sports, cultural and technical events.
- National and International industrial visits are organized for students to enhance their interpersonal skills.

[C] Problem Solving: Institute encourages teachers to incorporate activities that enhance problem solving skills of students.

- Students are encouraged to participate in inter and intra college project competitions/ exhibitions.
- MOOC certifications courses are promoted by the Institute.
- Each student has to complete the levels of interactive "Linguaphone iLotus L21" software to improve their communication skills.
- Institute has a well equipped library with adequate books and e-resources.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://drive.google.com/file/d/18pmKPs2Zi_zeam6TiNvvXFhaEkS5Fg9Ky/view?usp=sharing">https://drive.google.com/file/d/18pmKPs2Zi_zeam6TiNvvXFhaEkS5Fg9Ky/view?usp=sharing</a>

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

ICT tools are used by faculty for effective teaching-learning. Use of ICT enabled tools has a significant and positive impact on students' achievements.

A Teaching Learning Center at SAKEC is formed in 2019.

Following are the innovative initiatives undertaken by SAKEC faculty members for improving teaching and learning experience.

- Each department has dedicated smart classrooms to make the teaching learning process more interactive.
- Flipped Classroom, Think pair share and peer instruction are adopted for effective teaching and learning.
- Faculty members are encouraged for online courses to stay updated technologies and advanced teaching process
- Facilitating students for various Project Competitions is an integral part of our college culture. Students regularly participate in national level project competitions and Robotics and Embedded System contest link hackathons, e-Yantra.
- Microsoft Teams and Google Classroom is used by faculty members to conduct online lectures, assessments and to share learning resources during Covid-19 pandemic situation.
- Digital library base assignments promote self- learning of students.
- Urkund Software is used to check the plagiarism of the technical paper and report written by students.
- Institute promotes the faculty participation in STTP/FDP especially on ICT Tool and Techniques.
- Industrial visits help students to get insight into industry culture and trends.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	<a href="#">View File</a>

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

#### 2.3.3.1 - Number of mentors

99

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	<a href="#">View File</a>
Circulars pertaining to assigning mentors to mentees	<a href="#">View File</a>
Mentor/mentee ratio	<a href="#">View File</a>

### 2.4 - Teacher Profile and Quality

#### 2.4.1 - Number of full time teachers against sanctioned posts during the year

122

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View File</a>

#### 2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)

##### 2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year

15

File Description	Documents
Any additional information	<a href="#">View File</a>
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year (Data Template)	<a href="#">View File</a>

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

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

1402

File Description	Documents
Any additional information	<a href="#">View File</a>
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	<a href="#">View File</a>

### 2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

The process of conducting assessment internally is a continuous process including Internal Assessment (IA) exam, Term work (TW) and Project reviews and assessment during the semester.

1. **Internal Assessment Exam:** In a semester, two IA exams are conducted as per the rules of University. IA-1 is conducted in February/August. IA-2 is conducted in April/October. The exam schedule is displayed on the notice board and departmental web pages. The syllabus of IA exam is disseminated to students in the class well in advance. The solution of each question is discussed and the evaluated answer books are shown to students to maintain transparency.

1. Term Work (TW): TW marks are given for each course, mini project and BE project as per Mumbai University norms.

1. For Course: The TW marks given to each student is the weightage of marks obtained from assignments, experiments and attendance as per the rules of University.
2. Mini projects (if any): are subjected to periodic reviews by the committee for continuous assessment followed by final demonstration and report writing.
3. Final Year Projects: Progress is monitored by the internal review committee fortnightly. The weightage of marks in reviews, quality of report and publications is considered for TW.

File Description	Documents
Any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://drive.google.com/file/d/1dIVx5ylRUydWPNO5Kq_VwuuImIepAK_1/view?usp=sharing">https://drive.google.com/file/d/1dIVx5ylRUydWPNO5Kq_VwuuImIepAK_1/view?usp=sharing</a>

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

To minimize the occurrence of any examination related grievances, all internal and University examinations are conducted in the Institute in a fair, transparent and time-bound. The examination section ensures confidentiality and security of the examinations. Institute deals with examination related grievances in an efficient way:

1. Before examination: Any grievance related to hall ticket is addressed and resolved by examination section.
2. During examination: To ensure students do not indulge in any unfair means, the examination is conducted under the supervision of Supervisors. The vigilant squad from university and COE take rounds during the examination. If any student is found indulging in any unfair means, action as per the University guidelines is taken. An Unfair Means

committee is set up to deal with such cases.

Students may report grievances in question paper, which is then conveyed to university and clarification, is communicated back through proper channel.

1. After examination: In internal examinations, grievances are addressed and rectified by the concerned faculty. In University exams, after the result declaration, students may raise grievance and apply for reevaluation. Subject experts from other colleges do the reevaluation.

All other grievances, that require communication with the university, are promptly done with proper documents by the examination section.

File Description	Documents
Any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://drive.google.com/file/d/1JvIXerzPRxSfKk4wRx_vYqNyZ2mRCShm/view?usp=sharing">https://drive.google.com/file/d/1JvIXerzPRxSfKk4wRx_vYqNyZ2mRCShm/view?usp=sharing</a>

## 2.6 - Student Performance and Learning Outcomes

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

To minimize the occurrence of any examination related grievances, all internal and University examinations are conducted in the Institute in a fair, transparent and time-bound. The examination section ensures confidentiality and security of the examinations. Institute deals with examination related grievances in an efficient way:

1. Before examination: Any grievance related to hall ticket is addressed and resolved by examination section.
2. During examination: To ensure students do not indulge in any unfair means, the examination is conducted under the supervision of Supervisors. The vigilant squad from university and COE take rounds during the examination. If any student is found indulging in any unfair means, action as per the University guidelines is taken. An Unfair Means

committee is set up to deal with such cases.

Students may report grievances in question paper, which is then conveyed to university and clarification, is communicated back through proper channel.

1. After examination: In internal examinations, grievances are addressed and rectified by the concerned faculty. In University exams, after the result declaration, students may raise grievance and apply for reevaluation. Subject experts from other colleges do the reevaluation.

All other grievances, that require communication with the university, are promptly done with proper documents by the examination section.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for Additional information	<a href="https://drive.google.com/file/d/1sNPbYvc2lT5oDGlQoQU-oJ529yCj3M64/view?usp=sharing">https://drive.google.com/file/d/1sNPbYvc2lT5oDGlQoQU-oJ529yCj3M64/view?usp=sharing</a>
Upload COs for all Programmes (exemplars from Glossary)	<a href="#">View File</a>

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

For outcome based education, analysis and attainment of course outcomes(CO), program outcomes (PO) and program specific outcomes(PSO) is important as it helps to improve the quality of teaching and learning process. The efficiency and effectiveness of the process is continuously assessed and improved by taking inputs from experts in the Department Advisory Board.

For every course, the attainment of COs, POs, and PSOs are calculated using Course attainment calculation sheet considering all aspects of teaching and learning process. The attainment calculations are as follows

1. CO attainment: Calculation of CO attainment is based on the following components:

[A] Direct Method

1. Internal Evaluation

- Term Work

i. Lab performance

ii. Assignments

iii. Other components(e.g. Quiz, tutorials, case studies etc)

- Internal Assessment Tests

2. External Evaluation

- End Semester Oral/Practical and Theory Examination

[B] Indirect Method

- Course Exit Survey :

- Lab Exit Survey:

2. PO attainment: Calculation of PO attainment is also based on the following components such as

1.Direct Method: The COs of each course are mapped to the POs and final PO attainment is calculated

2.Indirect Method:

- Co-Curricular and Extra Curricular activities
- Literature Survey
- Program Exit Survey

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for Additional information	<a href="https://drive.google.com/file/d/1lf80-j-5xmh5H273sgCWwzEV755OuLQR/view?usp=sharing">https://drive.google.com/file/d/1lf80-j-5xmh5H273sgCWwzEV755OuLQR/view?usp=sharing</a>

### 2.6.3 - Pass percentage of Students during the year

#### 2.6.3.1 - Total number of final year students who passed the university examination during the year

426

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for the annual report	<a href="https://drive.google.com/file/d/1lM3m5-PYihdSTjeXx-nXNdWUKlDGOGZ2/view?usp=sharing">https://drive.google.com/file/d/1lM3m5-PYihdSTjeXx-nXNdWUKlDGOGZ2/view?usp=sharing</a>

### 2.7 - Student Satisfaction Survey

#### 2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a weblink)

[https://drive.google.com/file/d/1IyFbYTn4A90xJrxcR3m\\_2iBRYWSFDlda/view?usp=sharing](https://drive.google.com/file/d/1IyFbYTn4A90xJrxcR3m_2iBRYWSFDlda/view?usp=sharing)

### 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 year (INR in Lakhs)

##### 3.1.1.1 - Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

3.53

File Description	Documents
Any additional information	<a href="#">View File</a>
e-copies of the grant award letters for sponsored research projects /endowments	<a href="#">View File</a>
List of endowments / projects with details of grants(Data Template)	<a href="#">View File</a>

### 3.1.2 - Number of teachers recognized as research guides (latest completed academic year)

#### 3.1.2.1 - Number of teachers recognized as research guides

5

File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

### 3.1.3 - Number of departments having Research projects funded by government and non government agencies during the year

#### 3.1.3.1 - Number of departments having Research projects funded by government and non-government agencies during the year

1

File Description	Documents
List of research projects and funding details (Data Template)	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Supporting document from Funding Agency	<a href="#">View File</a>
Paste link to funding agency website	Nil

### 3.2 - Innovation Ecosystem

3.2.1 - Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Even in the face of uncertainty of lockdown, the online and offline mode Institute continued its efforts to foster the

culture of innovation among its staff and students. Reaching the students by whatever ways, online or offline, Institute continued imparting quality content on innovation, entrepreneurship and IPR to the students by way of various events, workshops, and competitions.

To make sure that the students come out from the rote learning habit and become problem solvers, they were encouraged, insisted on having some real life problems and some new, innovative solutions to it through their mini and major projects. Proper rubrics designed for awarding marks were already in place which the students were made aware of. This learning intervention led to significant improvement in the quality of project ideas students took for their projects. This resulted in registration of several copyrights and publication of research papers in the academic year 2021-22.

In addition to these things the access to the quality learning resources like coursera, Star certification courses, CISCO courses was made available and students were encouraged to use it as much as possible. This helped students as well as staff a lot for developing their subjects.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://www.sakec.ac.in/">https://www.sakec.ac.in/</a>

### 3.2.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year

#### 3.2.2.1 - Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during the year

63

File Description	Documents
Report of the event	<a href="#">View File</a>
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	<a href="#">View File</a>

<b>3.3 - Research Publications and Awards</b>	
<b>3.3.1 - Number of Ph.Ds registered per eligible teacher during the year</b>	
<b>3.3.1.1 - How many Ph.Ds registered per eligible teacher within the year</b>	
0	
<b>File Description</b>	<b>Documents</b>
URL to the research page on HEI website	Nil
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
<b>3.3.2 - Number of research papers per teachers in the Journals notified on UGC website during the year</b>	
<b>3.3.2.1 - Number of research papers in the Journals notified on UGC website during the year</b>	
50	
<b>File Description</b>	<b>Documents</b>
Any additional information	<a href="#">View File</a>
List of research papers by title, author, department, name and year of publication (Data Template)	<a href="#">View File</a>
<b>3.3.3 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year</b>	
<b>3.3.3.1 - Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during year</b>	
32	
<b>File Description</b>	<b>Documents</b>
Any additional information	<a href="#">View File</a>
List books and chapters edited volumes/ books published (Data Template)	<a href="#">View File</a>

### 3.4 - Extension Activities

3.4.1 - Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year

When developing as competent engineers, it is necessary that students are aware of different societal problems, our culture and values that makes it unique. This objective was very well fulfilled by the activities organized by the SAKEC - NSS department. The activities became even more planned, systematic and hence more effective as the programs by NSS are conducted under the guidance of the University and the state Government. In the academic year 2021-22, 31 extension activities were conducted by the SAKEC NSS unit. The activities spanned from simple awareness sessions to vaccination drive, blood donation, celebration activities like Azadi Ka Amrut Mahotsav etc.

The activities enhanced students' awareness about the culture and society. It enriched them as sensitive human beings when they were exposed to the problems different, especially underprivileged sector of the society going through. Because of NSS, events like Azadi ka Amrut Mahotsav was implemented effectively in the Institute in which they remembered, celebrated the outcome of several martyrs who sacrificed their lives for the freedom we are experiencing.

File Description	Documents
Paste link for additional information	<a href="https://www.sakec.ac.in/">https://www.sakec.ac.in/</a>
Upload any additional information	No File Uploaded

**3.4.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year**

**3.4.2.1 - Total number of awards and recognition received for extension activities from Government/ Government recognized bodies year wise during the year**

1

File Description	Documents
Any additional information	No File Uploaded
Number of awards for extension activities in last 5 year (Data Template)	<a href="#">View File</a>
e-copy of the award letters	<a href="#">View File</a>

**3.4.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., ( including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs ) during the year**

**3.4.3.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year**

31

File Description	Documents
Reports of the event organized	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	<a href="#">View File</a>

**3.4.4 - Number of students participating in extension activities at 3.4.3. above during year**

**3.4.4.1 - Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year wise during year**

1649

File Description	Documents
Report of the event	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	<a href="#">View File</a>

<b>3.5 - Collaboration</b>	
<b>3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year</b>	
<b>3.5.1.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year wise during the year</b>	
301	
File Description	Documents
e-copies of related Document	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Details of Collaborative activities with institutions/industries for research, Faculty	<a href="#">View File</a>
<b>3.5.2 - Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year</b>	
<b>3.5.2.1 - Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the year</b>	
12	
File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	<a href="#">View File</a>
Any additional information	No File Uploaded
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	<a href="#">View File</a>
<b>INFRASTRUCTURE AND LEARNING RESOURCES</b>	
<b>4.1 - Physical Facilities</b>	
4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.	
As an important step towards realizing its vision of imparting quality education, the Institute has a state-of-the-art infrastructure in its campus of 6189 sqm. The infrastructure is	

created as per the guidelines by AICTE and other statutory bodies.

1. **Classrooms:** There are 34 ICT enabled, well-furnished classrooms with good ventilation available out of which 13 classrooms are equipped with smart boards.

2. **Laboratories:** The Institute has 54 well equipped laboratories out of which 33 are dedicated computer laboratories ready with powerful machines and licensed software's.

3. **Auditorium:** A high tech auditorium with the capacity of 250+ and fully furnished, modern 06 Seminar halls are used for all technical and cultural activities.

4. **Library:** A well-equipped library maintains 27779 book volumes, 2581 e-book titles and 7 online databases. It is an institutional member of IIT Bombay, Tata Institute of Social Science (TISS) library and National Digital Library.

5. **Other facilities include** - drawing halls, workshop, store room, placement cell, counselling centre, girls' common room, examination section and administrative office.

6. **IT Facilities:** The institute has a central server with 1056 computing machines in working condition. Institute uses its website, email, SMS and other social media platforms for faster and effective communication.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

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

Being committed to the overall growth of the students, the institute has developed sound infrastructure for exercise and sports. There is a fully air-conditioned and equipped gymnasium, developed in 2015-16 with a 200 sqm area and indoor sports facility. The gymnasium is supervised by a gym instructor. Recreation of energy is an important aspect of college life for the students. To give full opportunity to enjoy it, a

multipurpose outdoor sports facility is made available to the students to play various outdoor sports. In addition, college utilizes a BMC ground with an area of 3780sqm to satisfy most of the outdoor sports requirements. Utilizing these facilities fully, the SAKEC students have participated in various University, State, National and International level tournaments and won medals. The International Yoga Day is celebrated in the institute every year on 21st June from 2015. NSS activity is also started for students. SAKEC annual festival, Pratishtha which is a confluence of Verve, Olympus and Nucleus gives full opportunity to the students to explore and unleash their talents. The 283.76sqm high-tech auditorium established in the year 2012-13 with a capacity of 250+ in the college and nearby Aangan Lawns is also used to conduct cultural activities

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

#### 4.1.3 - Number of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc.

36

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View File</a>

#### 4.1.4 - Expenditure, excluding salary for infrastructure augmentation during the year (INR in Lakhs)

##### 4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

762.71453

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Upload audited utilization statements	No File Uploaded
Upload Details of budget allocation, excluding salary during the year (Data Template	<a href="#">View File</a>

## 4.2 - Library as a Learning Resource

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

The Institute has a very good, spacious, well ventilated, and well-furnished library with a huge reading hall, and a large collection of books related to the curriculum, self-improvement and personality development. Library subscribes to a number of national and international journals devoted to technical subjects to help students to keep themselves updated with the latest developments.

The library has a dedicated computer facility for using online resources NVDA (Non-Visual Desktop Access) Screen Reader facility is available in the library. Automation of the Library plays an important role in supporting academic programmes. SAKEC has developed its own In-house ILMS Software called Library. Database of all the books is maintained up to date.

- Daily issue/return records can be obtained.
- There is a provision for adding the master database of Vendors, Publishers, fine etc.
- Branch wise book details can be generated.
- Overdue report and overdue letter for students can also be generated.
- Yearly book purchase detail report can be generated.
- Accession register can be generated.
- Barcode printing option is available.

• Web OPAC linked to ILMS has facility for searching by Author, Title, and Keyword.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for Additional Information	Nil

**4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources**

**A. Any 4 or more of the above**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	<a href="#">View File</a>

**4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e- journals during the year (INR in Lakhs)**

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

**59.47**

File Description	Documents
Any additional information	<a href="#">View File</a>
Audited statements of accounts	No File Uploaded
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	<a href="#">View File</a>

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

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

74	
File Description	Documents
Any additional information	<a href="#">View File</a>
Details of library usage by teachers and students	<a href="#">View File</a>

### 4.3 - IT Infrastructure

#### 4.3.1 - Institution frequently updates its IT facilities including Wi-Fi

The IT infrastructure is a state-of-the-art infrastructure. It includes several high-end servers, firewalls, workstations, routers, switches and latest versions of premium, licensed software, projectors, laptops, smart boards, printers etc. Institute has Licensed software's like Windows Operating System, Oracle 12c, Clementine, Microsoft Teams etc.

The Institute also promotes the use of free as well as open-source software.

Following are some of the premium hardware and software resources available in the Institute:

**Server:** Institute has three centralized servers out of which main server issued as an application server and two servers are used as a domain server.

**Firewall:**gajshield 360dci the main firewall to meet the growing security needs.

**Router:** SAKEC has Cisco router and Leased line for the whole college with 500Mbps internet speed.

**Networking Switch:**SMC/ Acton Cheetah Switches, SMC EZ /Tiger Switches, DLink switches are used.

**Computing Facilities:** Institute has computing machines with configuration as i5 processor, 4GB RAM,500GB hard disk, 3.10 GHz CPU speed with licensed operating system. Internet and Wi-Fi: The campus has internet connection of 500 Mbps bandwidth, providing anytime anywhere access to knowledge and learning resources. In SAKEC all students and staff members are provided with an Email id of 'sakec.ac.in'.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

**4.3.2 - Number of Computers**

1056

File Description	Documents
Upload any additional information	<a href="#">View File</a>
List of Computers	<a href="#">View File</a>

**4.3.3 - Bandwidth of internet connection in the Institution**

A. ? 50MBPS

File Description	Documents
Upload any additional Information	No File Uploaded
Details of available bandwidth of internet connection in the Institution	<a href="#">View File</a>

**4.4 - Maintenance of Campus Infrastructure**

**4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)**

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

154.874

File Description	Documents
Upload any additional information	No File Uploaded
Audited statements of accounts	<a href="#">View File</a>
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	<a href="#">View File</a>

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.

Cleanliness beautifies the campus, makes it delightful and makes focussing on study much easier. Knowing this, every effort is made to make the campus clean and beautiful. The Institute sees to it that all resources in the campus are always up and running. It is made possible by having a robust system and well-defined procedures for maintenance of all facilities. The procedure is followed as below for the maintenance: -

- The request for maintenance is entered in a register maintained by Estate Manager at the Institute level.
- The maintenance schedule is then executed with the support of external agencies.
- Emergency maintenance is carried out on priority basis.

a) Routine Maintenance Cleaning, Dusting, Sweeping and Mopping of all areas is undertaken daily by contractual housekeeping staff.

b) Preventive Maintenances: In preventive maintenances Electrical, AC, Lifts, Water coolers and purifiers, Pest control, Gymnasium, Fire Extinguisher maintenance is done periodically by contractual agency.

The institute has a full-time maintenance engineer for carrying out IT maintenance.

Every laboratory assistant maintains a complete record maintenance in the maintenance Register.

The books are kept in good condition by binding them regularly. Review and discard of obsolete books are carried out periodically.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

## STUDENT SUPPORT AND PROGRESSION

**5.1 - Student Support****5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year****5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year**

913

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	<a href="#">View File</a>

**5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year****5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year**

08

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	<a href="#">View File</a>

**5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills**

**A. All of the above**

File Description	Documents
Link to Institutional website	Nil
Any additional information	<a href="#">View File</a>
Details of capability building and skills enhancement initiatives (Data Template)	<a href="#">View File</a>

**5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year**

477

**5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year**

477

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	<a href="#">View File</a>

**5.1.5 - The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees**

A. All of the above

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View File</a>

## 5.2 - Student Progression

### 5.2.1 - Number of placement of outgoing students during the year

#### 5.2.1.1 - Number of outgoing students placed during the year

433

File Description	Documents
Self-attested list of students placed	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Details of student placement during the year (Data Template)	<a href="#">View File</a>

### 5.2.2 - Number of students progressing to higher education during the year

#### 5.2.2.1 - Number of outgoing student progression to higher education

44

File Description	Documents
Upload supporting data for student/alumni	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Details of student progression to higher education	<a href="#">View File</a>

### 5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

**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) during the year**

54

File Description	Documents
Upload supporting data for the same	No File Uploaded
Any additional information	<a href="#">View File</a>
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	<a href="#">View File</a>

**5.3 - Student Participation and Activities**

**5.3.1 - 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) during the year**

**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) during the year.**

01

File Description	Documents
e-copies of award letters and certificates	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	<a href="#">View File</a>

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 )

SAKEC aims for all round development of students and hence has established student council at College level. The primary objective of creating Student Council is to assimilate and

integrate the students from all the constituent departments to provide them with a platform to harness their creative activities in an integrated manner. The Student council, being the apex body organizes various activities with the help of the other cells.

Pixel, Nucleus - the technical fest, and Prathistha - the cultural fest are some of the most looked upon events that enrich the experience of students community. During the lockdown period online events were conducted.. Apart from these, we also have events and competitions conducted by the various student-run Cells which keep the students active throughout the year.

Institute organizes industrial visit within india as well as around the globe, where students able to interact with industry expert and get the knowledge of industry operation. Student bodies and coordinator plays crucial role in organizing Industrial visit successfully. However in this year due to lockdown in various parts of world industrial visit could not be conducted.

SAKEC provides holistic learning experience to develop managerial capabilities of its graduates. It has well defined processes in place to help students develop their leadership and decision-making skills. The various cells/Professional bodies facilitate student development.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

### **5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)**

#### **5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year**

24

File Description	Documents
Report of the event	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions (Data Template)	<a href="#">View File</a>

## 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

The SAKEC Alumni Association was established on 28/04/2022. Alumni cell was formed in 2018. Alumni are the valuable/Greatest assets of SAKEC.

SAKEC maintains a strong and affectionate bond with its alumni which helps SAKEC to grow not only in the educational field but also socially. SAKEC Alumni guides students for better placement opportunities and Higher studies also Mentorship and Internships.

The key areas where alumni significantly contribute.

1. **Career Guidance:** Alumni play a crucial role in guiding students to success through active participation in the Student Guidance program.
2. **Mentorship:** Alumni cell provide a platform to foster meaningful mentoring relationships between alumni and students.
3. **Internship:** Alumni Plays a significant role in providing Internship to deserving candidates in their organization.
4. **Placement:** Alumni also donate their valuable time to offer career support to current students. This enhances the student's experience and gives them an edge in today's competitive job market.
5. **Workshop and Seminar:** Institute's various departments in

collaboration with Alumni cell conduct different workshops and seminars to guide students in different technical domains.

6. Alumni Cell: Alumni cell in SAKEC helps to foster and bridge the interaction between the institute and its Alumni.
7. Samparka: SAKEC celebrates Annual Alumni meet "SAMPARKA" every year, this year it was conducted in online mode.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

**5.4.2 - Alumni contribution during the year (INR in Lakhs)**

**E. <1Lakhs**

File Description	Documents
Upload any additional information	<a href="#">View File</a>

## 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

To provide quality technical education, the Shah and Anchor Kutchhi Engineering College was founded in 1985. Institute is NBA accredited and has ISO certification.

In order to keep up with the most recent innovations, we continuously upgrade faculty skills, infrastructure, and teaching methods in addition to conducting periodic reviews of the academic environment and management system. While doing so, we make sure that the self-financed minority educational institution is adhering to all applicable laws, rules, and regulations. In order to upgrade technical skills of staff members, they are encouraged to participate in STTP, FDP and workshops.

The college development committee tracks college's academic progress.

Our students' academic performance is always improving , and they are inspired to participate in national-level project contests like the Smart India Hackathon and other coding competitions, where they have won numerous awards. Many of our students are hired by reputable companies as a result of the placement cell's ongoing efforts.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

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

An important responsibility of the institution is to have smooth admission of candidates as per the DTE norms. In order to define policies and procedures, frame guidelines, and establish rules and regulations relevant to admission in accordance with DTE norms, the Principal, Admission in charge and College Council are involved. Various committees have been formed to ensure the planning and implementation of admissions. Special guidance sessions are conducted for aspiring students. The Student Induction Program is held for first-year newly admitted students as per the guidelines received from AICTE .The Student Induction Program is conducted and monitored by SIP coordinator and head of Department and committee members under the guidance of Principal. The Participative Management at the Institute is represented by this event.

Case study II:

**TECHNOVATION- NATIONAL."LEVEL PAPER PRESENTATION**

In association with the Directorate of Technical Education Maharashtra the Department of Electronics and Telecommunication Engineering at Shah & Anchor Kutchhi Engineering College in Mumbai conducted "TECHNOVATION- NATIONAL."LEVEL PAPER PRESENTATION", This event reflects the participatory management

of the Institute. The paper presentation was organized and execution done by committee members, staff members and students. This was a successful event .

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

## 6.2 - Strategy Development and Deployment

### 6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

In order to encourage the staff and students to explore and learn about the rich culture and heritage of India, SAKEC Research Cell collaborated with Indian Knowledge System, Ministry of Culture India. In February 2022, through AICTE's IKS programme, SAKEC Research cell commenced internship programs for students and mentor programs for staff.

Laboratory upgradation with latest PC configuration has been planned and four computer laboratories will be modified accordingly.

To boost writing and oratory skills of students, SAKEC celebrated Mother Language Day on 21st February 2022, wherein SAKEC Writers' Cell SAKEC Sambodhi, Speakers' Club and Students Council collaborated to conduct Essay competitions, debates and cultural programmes in various Indian languages. This tradition will be followed every year henceforth.

The Institution also marked Womens' Day 2022. The Internal Complaints Committee conducted an essay competition and poster competition in association with SAKEC NSS and SAKEC Sambodhi, for women empowerment.

From January 2022, the institution commenced hybrid lectures, as few students preferred classroom teaching and few wished to attend online. Camera stands were procured for every department, so the teachers could record their classroom lectures and stream them online through Microsoft teams. essay competitions.

Two teams from SAKEC, "Coll\_SAKEC\_1" and "Coll\_SAKEC\_2"

outperformed in the Data Mining Cup.

The IPR cell filed 26 and registered 24 copyrights. The Research Cell has commenced 21 new projects under it's umbrella.

File Description	Documents
Strategic Plan and deployment documents on the website	<a href="#">View File</a>
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

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

On top of the hierarchy in Shah and Anchor Kutchhi Engineering College, is the Management Trust Board and the Governing Body, constituted as per the guidelines of AICTE. The institute is managed by the Management Board and follows the norms of University of Mumbai, and the rules set by Government of Maharashtra.

For decentralizing all it's operations, Principal has assigned authority to various heads, at different levels. . Principal takes guidance, directions and approvals from the Governing body and the Management Trust Board for various activities of the Institute.

The Administrative and academic activities are headed and monitored by the Principal, for the smooth functioning of all the bodies that fall in the chart.

The Institute has HR & Internship executive to decimate information about internship opportunities and other announcements to staff and students. The Institute has IQAC and other committees working under Principal for strengthening the academic quality.

The HoDs, Deans, Registrar, HR & Internship executive, Librarian and Student Council plan the academic calendar and for conduction of various activities in the institute. Examination Cell monitors smooth conduction of examinations. Training and Placement Cell works to provide opportunities to students.

The admission procedure is handled by the admission committee.

All departments and Professional bodies and cells have the authority to conduct activities under their umbrella, with Principal's guidance.

Service books of all staff members are maintained by the office .

File Description	Documents
Paste link for additional information	Nil
Link to Organogram of the institution webpage	<a href="https://www.shahandanchor.com/home/wp-content/uploads/ornanogram-21-22-scaled.jpg">https://www.shahandanchor.com/home/wp-content/uploads/ornanogram-21-22-scaled.jpg</a>
Upload any additional information	<a href="#">View File</a>

**6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination**

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Document	<a href="#">View File</a>
Screen shots of user inter faces	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	<a href="#">View File</a>

### 6.3 - Faculty Empowerment Strategies

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

#### Welfare schemes

#### Common Welfare scheme

1. Conduction awareness program Like Yoga session.

2. Availability of councilor to solve psychological problems in this Covid pandemic.
3. Encouragement through reimbursement to scholars for MOOC exams
4. Encouragement through Higher Studies policies for higher
5. Availability of Digital library facility with good subscriptions.
6. Availability of recreational activities, Sports & Gymkhana
7. Opportunity to conduct/ attend webinars of IIT Bombay remote centre, IEEE, and AICTE.
8. Conduction of training programs, seminars, workshops, etc. on a regular basis to update skill sets and the core competency

#### Teaching

1. Implementation of PF Facility as per government norms
2. Implementation of Gratuity for the retiring staff members
3. Group Insurance
4. Book Allowance of 1000/- per year
5. Reimbursement scheme to encourage staff to attain training session, publication of technical paper.
6. Reimbursement for professional membership to encourage the staff for active participation
7. Through Research Promotion Scheme, interested faculty members are given opportunities to work on research projects through various MoUs signed by the institute.

#### Non-teaching

1. Implementation of PF Facility as per government norms
2. Implementation of Gratuity for the retiring staff members
3. Group Insurance

**4. Medical allowance of Rs.3500****Students****1. Facility of insurance****2. Flexibility of Fees Payment in instalments.**

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

**6.3.2 - Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the year****6.3.2.1 - Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the year**

5

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	<a href="#">View File</a>

**6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year****6.3.3.1 - Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff during the year**

27

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	No File Uploaded
Reports of Academic Staff College or similar centers	No File Uploaded
Upload any additional information	<a href="#">View File</a>
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	<a href="#">View File</a>

### 6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

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

62

File Description	Documents
IQAC report summary	No File Uploaded
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	No File Uploaded
Upload any additional information	<a href="#">View File</a>
Details of teachers attending professional development programmes during the year (Data Template)	<a href="#">View File</a>

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

The Institute effectively uses three systems of Performance appraisal for staff.

[A] Staff Appraisal form:

1) **Teacher Appraisal:** Performance appraisal of all the teaching staff is filled and recorded.

The proper procedure is followed for the same. Scrutinization is done by Head of the Department and forwarded to the Principal.

2) **Appraisal system for non-teaching staff** -Non-teaching staff performance is evaluated in every academic year based on co worker attitudes, staff/student relationships, dependability, attendance/job performance, initiative, response to supervision, method of expression, and related accomplishments. The finest non-teaching staff of the year award is awarded to show appreciation for workers and to encourage others to work with enthusiasm. For non-teaching personnel, there is a different form and procedure.

[B] **Career Advancement Schemes:** Staff academic successes are rewarded by the institute through career promotion programmes for completion of further education and professional accomplishments. Teachers are evaluated and promoted to higher grade pay on a regular basis depending on the following criterias:

- Completion of M.E, PhD
- STTP and QIP courses
- Patents/Awards received.
- Experience in number of years in same designation

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

#### **6.4 - Financial Management and Resource Mobilization**

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

Shah and Anchor Engineering College has a team which conducts the internal audit on a regular basis. The accounts department maintains an appropriate record of all the account statements.

Every year college prepares a budget well in advance in which provision is made for all possible expenses and purchases. During budget preparations requirements of various departments, cells are taken into consideration in addition to that of possible hike in salary due to increased DA, Gratuity, and building maintenance. Every department is provided with two lakh rupees which the department utilizes as per budget policy. Institute has appointed an external auditor to conduct regular audit, to verify and certify the entire recurring and non-recurring and the Capital Expenditure of the institute every year.

Auditing of all financial transactions are done by in-charges of various chapters such as ISTE, IETE, IEEE, ACM, CSI. Use of good quality software is made in maintaining all financial records. Regular monitoring of fund flow helps in maintaining the financial health of the college.

So far there have been no major objections from any of the auditors. Minor errors pointed out by the audit team were corrected immediately. Regular monitoring of fund flow helps in maintaining the financial health of the college.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

#### **6.4.2 - Funds / Grants received from non-government bodies, individuals, philanthropers during the year (not covered in Criterion III)**

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

0

File Description	Documents
Annual statements of accounts	No File Uploaded
Any additional information	No File Uploaded
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	<a href="#">View File</a>

## 6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

The SAKEC has a well distinct practice for screening active and competent operation of available financial resources for development of infrastructure and academic processes. Management of college takes an active part in this regard. Strong financial position of the trust helps in developments of laboratories, purchase of hi-tech and required instruments and software's. For every academic year, the budget is prepared well in advance after taking into consideration the requirements of every Department. Each department prepares its own budget based on its requirements such as equipment, software, computers, printers, etc for student and faculty activities, research and development in the department, as well as consumables required for the next academic session. Principal puts up the budget in the Governing Body Meeting. After discussion and necessary corrections or modifications, the Governing Body recommends the budget for approval. The budget is reviewed by the management and approved after necessary changes. For an unplanned purchase or any other activity, the institute makes a provision for advance additional funds. The Principal and the Head of Departments discuss the requirements and decide the priorities while allocating financial resources for various purposes and also ensure optimum use of available financial resources. Periodically, the Governing Body monitors the annual expenditure, scrutinizes the budget and provides feedback related to efficient use of financial resources.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

## 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

Planning for ,Conducting workshops, FDPs on emerging technologies ,Conducting Guest Lectures from Industry/Experts is done by IQAC. It monitors and evaluate the teaching & learning processes, with the feedback from the stake holders.. IQAC cell had planned

preparation of operating manual for various cells of the institute and currently all the cells have operating manuals.

#### Best practices - 1

Based on the academic calendar issued by the University, Institute defines the schedule for the academic year and publishes the academic calendar. Academic calendar is prepared by dean of academics in coordination with the IQAC cell of the institute. Various activities, like FDP, student development programs, guest lectures, cultural events are planned in the beginning of semester

#### Best practices 2

Usage of smart classrooms in all departments.

Based on the feedback received from the students and faculties. It was the IQAC initiative to implement the smart class room in the campus. The use of smart classes promotes more interaction between teacher and student. The use of smart classes and modern technology makes the learning easier. It also provides academic and digital learning. Smart classes use all interactive modules like presentations and videos and these visually attractive methods of teaching.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

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

Institute reviews teaching learning process and make improvements in subsequent years.

#### Example - 1

##### Teaching and Learning Process (TLP)

Institute believes need for updating knowledge. To keep up with the current trends institute sends the faculty for faculty

development program in the area of their teaching subjects. Institute provides training in soft skill and technical skill training through the training and placement division. Innovation and Entrepreneurship Development cell helps the students to come with their innovative ideas which they can convert into a product. Project and poster competition are arranged every year to motivate the students. Series of guest lectures were arranged by IQAC cell on emerging areas of science and technology for staff and students. Students are encouraged for the industrial visit and internship during their studies.

#### Example - 2

#### Feedback Mechanism

At the end of the semester feedback is taken from the students. Feedback is collected consolidated and analysed by each department. The corrective actions are always implemented. Feedback is collected for Extra & Co-curricular activity. Parent teacher meeting is held once in a semester and parent's feedback is collected, analysed and implemented. Feedback is also collected from alumni action is taken accordingly. Institute has taken facility feedback from staff members.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

**6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)**

**A. All of the above**

File Description	Documents
Paste web link of Annual reports of Institution	Nil
Upload e-copies of the accreditations and certifications	No File Uploaded
Upload any additional information	<a href="#">View File</a>
Upload details of Quality assurance initiatives of the institution (Data Template)	<a href="#">View File</a>

## 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 year

Institute initiated to promote gender equity by conducting different activities.

SAKEC ICC organised a Poster Making Competition on BalanceTheBias - Empower a Woman to Empower the Next Generation on 18th march 2022.

Institute Promoted to Google sponsored Program - Women Engineer for girl students on 14th March 2022.

SAKEC Sambodhi, in Association with ICC conducted an essay competition on Women Empowerment from 9th to 16th March 2022.

E Cell SAKEC in collaboration with ICC,CSI,NSS,NDLI organized an online webinar on Women Entrepreneurship on the occasion of Women's Day 8th March 2022.

NSS-SAKEC organized self defense training on 25th October 2021.

NSS SAKEC organized a breast cancer awareness session in collaboration with Techfest, IIT Bombay on 8th October 2021.

NSS SAKEC in collaboration with ICC organized a webinar on the topic "Special Laws for Women" on 7th August 2021.

SAKEC IT department in collaboration with ACM student chapter

organised an online event on "Yoga practices of metabolic health" on 7th August 2021.

NSS SAKEC organized a workshop in collaboration with Art of Living on 26th, 27th and 28th July 2021.

The institute has CCTV, female security guard, Girls Common Room, Counsellor and Woman's Safety Board facilities for safety and security purpose.

File Description	Documents
Annual gender sensitization action plan	<a href="https://www.shahandanchor.com/home/NAAC/Images/AQAR/2021-22/7.1.1_21_22%20Annual%20gender%20sensitization%20action%20plan.docx.pdf">https://www.shahandanchor.com/home/NAAC/Images/AQAR/2021-22/7.1.1_21_22%20Annual%20gender%20sensitization%20action%20plan.docx.pdf</a>
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	<a href="https://www.shahandanchor.com/home/NAAC/Images/AQAR/2021-22/7.1.1_21_22_Facilities_for_women.pdf">https://www.shahandanchor.com/home/NAAC/Images/AQAR/2021-22/7.1.1_21_22_Facilities_for_women.pdf</a>

**7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power efficient equipment**

**A. 4 or All of the above**

File Description	Documents
Geo tagged Photographs	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

**1) Solid Waste Management:**

**Major solid waste produced on campus is in the form of papers. To**

manage it, the college has a shredding machine in the exam cell and administrative office.

The concept of paperless office is implemented in the institute. Some of the paperless activities are staff attendance using biometric, salary slips are mailed to official addresses, staff and students to use emails for communication and maintaining and sharing information from online storage.

Another major solid waste is plastic, its recycling initiative by the Bisleri International Pvt. Ltd., aims at creating awareness among the citizens about the importance of efficient disposal and recycling of plastic. Faculties of SAKEC, participated in event "Bottles for change" on 6th Sep 2021, plastic collection drive on 11th April 2022.

## 2) Liquid waste management

The institute is located in the Mumbai area and all its liquid waste is managed by the Brihanmumbai Municipal Corporation. The liquid waste is sent to sewage treatment plants for processing.

## 3) E-waste management

Irreparable instruments are mentioned in the scrap equipment list prepared by each department. Institute has signed MOU with M/s Click Computers for collection and disposal of E-Waste. Institute has organized an E-waste collection drive on 19th May 2022. Around 17 Kgs E-waste was collected by M/S Click computers.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	<a href="#">View File</a>
Geo tagged photographs of the facilities	<a href="#">View File</a>

**7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting  
Bore well /Open well recharge Construction of tanks and bunds Waste water recycling  
Maintenance of water bodies and distribution system in the campus**

A. Any 4 or all of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

### 7.1.5 - Green campus initiatives include

#### 7.1.5.1 - The institutional initiatives for greening the campus are as follows:

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered vehicles
3. Pedestrian-friendly pathways
4. Ban on use of plastic
5. Landscaping

A. Any 4 or All of the above

File Description	Documents
Geo tagged photos / videos of the facilities	<a href="#">View File</a>
Various policy documents / decisions circulated for implementation	<a href="#">View File</a>
Any other relevant documents	<a href="#">View File</a>

### 7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution

7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities

D. Any 1 of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	No File Uploaded
Certification by the auditing agency	No File Uploaded
Certificates of the awards received	No File Uploaded
Any other relevant information	<a href="#">View File</a>

**7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities (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**

A. Any 4 or all of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	<a href="#">View File</a>
Policy documents and information brochures on the support to be provided	<a href="#">View File</a>
Details of the Software procured for providing the assistance	No File Uploaded
Any other relevant information	<a href="#">View File</a>

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 200 words).

### 1. Immunity Enhancement

Program in association with The Art of Living;

NSS SAKEC organised a three day workshop in collaboration with Art of Living from 26th to 28th July, 2021.

1. Special Laws for Women

NSS organized a webinar on Special Laws for Women on 7th Aug 21

1. Slogan Making on Independence Day

Slogan Making Competition was organized on the occasion of 75th Independence Day as a tribute to the sacrifices of our brave Indian freedom fighters.

1. Tribute to first chief of Indian Defense Bipin Rawat and Others

NSS SAKEC organized an online session to pay tribute to first chief of Indian Defense Bipin Rawat and Others on 12th December 2021.

1. Quiz on 125th Birth anniversary of Netaji Subhash Chandra Bose

NSS SAKEC organized an online quiz on the topic of birth anniversary of Netaji Subhash Chandra Bose.

1. WOMEN ENTREPRENEURSHIP

On occasion of International women's day E-CELL SAKEC in collaboration with IQAC-SAKEC, CSI-SAKEC, NDLI-SAKEC, and NSS SAKEC has organised the event named "Meet the Entrepreneur"

on 8th March 2022.

1. National Girl Child Day

NSS SAKEC celebrated National Girl Child day on 24th of January, 2022 by taking selfie with daughter

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

7.1.9 - Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

Institute organised many events to inculcate values, rights to students and staff, making them responsible for their duties.

1. SAKEC organized a Blood donation camp from 22nd Sep to 25th Mar 22 for Cancer patients in collaboration with 'Youthon the Move' NGO, in association with Tata Memorial Hospital.

2. A virtual awareness activity was organized from 23rd Sep to 29th Sep 21 as HIV Campaign. This activity was organized under 'New India @75 Activities' with the aim of spreading awareness about AIDS.

3. A beach cleaning drive was organized on 15th Dec 21 as a part of 'Celebrating Rivers of India' under the event of 'Azadi ka Amrit Mahotsav'.

4. NSS organized a webinar on Menstrual Hygiene of women on 7th Mar 22.

5. NSS organized 'Poshan Vatika' from 3rd Sep to 5th Sep 21, in which a number of trees were planted in different areas.

6. NSS organized a two day virtual event of Recipe Competition : Nutritious food for pregnant women from 9th to 10th Sep 21.

7. NSS organized a 'Nutritious Kit Distribution' drive for children on 24th Sep 21 as a part of Suposhit Bharat under Poshan Maah.

8. NSS organized 'Breast Cancer Awareness' session on 8th Oct 21 in collaboration with Techfest IIT Bombay.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	<a href="https://www.shahandanchor.com/home/NAAC_Images/AQAR/2021-22/7.1.9.pdf">https://www.shahandanchor.com/home/NAAC_Images/AQAR/2021-22/7.1.9.pdf</a>
Any other relevant information	Nil

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

A. All of the above

File Description	Documents
Code of ethics policy document	<a href="#">View File</a>
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	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

NSS SAKEC organized a Slogan Making Competition on the occasion of 75th Independence Day as a tribute to the sacrifices of our brave Indian freedom fighters.

NSS SAKEC organized a quiz and slogan making competition and made everyone take pledge on the occasion of Gandhi Jayanti 2nd October 2021.

NSS SAKEC had organized a webinar to celebrate Rashtriya Ekta

Diwas on 31st August 2021 to mark the birth anniversary of Sardar Vallabhbhai Patel .

NSS SAKEC celebrated Constitution day by reading Preamble of the Constitution of India on 26 November 2021.

NSS SAKEC organized a Poster making competition on "World Aids Day " 1st December 2021.

NSS volunteers of SAKEC celebrated the 50th anniversary of the 1971 Indo-Pak war on 18th December 2021.

NSS SAKEC organized a Webinar on the topic "Importance and Awareness of Voting" on 25th January 2022 the eve of National Voters Day.

SAKEC SAMBODHI organized a Mother Language Day on 21st February 2022, an Intra College Essay Writing Competition .

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	<a href="#">View File</a>
Geo tagged photographs of some of the events	No File Uploaded
Any other relevant information	No File Uploaded

## 7.2 - Best Practices

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

### Best Practice I:

#### 1. Title of the Practice:

Creating an IP landscape for the technical stakeholders to converge to techno-legal professionals.

#### 1. Objectives of the Practice

To encourage and provide direction to students and faculties for filing IPR applications and promoting better understanding of IPR.

### 3. The Context

Intellectual properties are generated in the institution through many ways, such as research projects, internship and final year projects. SAKEC-IPR Cell is committed to encourage, protect & manage institution IPs.

### 4. The Practice

The IPR Cell conducts a hands-on Session on Copyright and Patent Filing for faculty and Students. SAKEC IPRC mentor individual cases through oral or/and written communication. IPR Cell does hand holding till the entire process is complete. Offering IPR & Patenting as elective course SAKEC IPRC took the initiative.

### 5. Evidence of Success

The faculty and students have inculcated the habit of Copyrighting their paper and Research work. Our faculty members have done IPR related courses. Institute is motivating faculty and students to file patent under Kalam Program for IP Literacy and Awareness.

### 6. Problems Encountered and Resources Required

As every individual IP is unique and has different requirements with varied backgrounds, it is challenging for IPRC members to understand each and then guide.

File Description	Documents
Best practices in the Institutional website	<a href="https://www.shahandanchor.com/home/NAAC_Images/AQAR/2021-22/7.1_Best_Practices.pdf">https://www.shahandanchor.com/home/NAAC_Images/AQAR/2021-22/7.1_Best_Practices.pdf</a>
Any other relevant information	<a href="https://www.shahandanchor.com/home/NAAC_Images/AQAR/2021-22/7.2_Any_Other%20Relevant_Information.pdf">https://www.shahandanchor.com/home/NAAC_Images/AQAR/2021-22/7.2_Any_Other%20Relevant_Information.pdf</a>

### 7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

The Institute, in line with its vision and mission, attempts to adapt to NEP2020 by offering a holistic and multidisciplinary learning environment. NEP2020 states that a notion of "liberalarts" must be brought back to Indian education, the institute has established various professional bodies and chapters which focus on various forms of art related to scientific, vocational, professional, and soft skills. This includes the Sambodhi writer's club to enhance written communication, Speaker's Club to initiate and develop effective communication, discussions, and debate, the Research cell to showcase creativity and innovation, the TL center to improve problem-solving, critical and higher-order thinking capabilities, SAKEC-NSS to inculcate social and civic responsibilities among students. Essay writing competitions on the topics of women empowerment, India Shining and 'India's Diverse Multilingual Heritage'. Intra-college story/ Poem / Drabble writing contest on topics like Real Life Santa , Adjusting to the New Normal, Noiseless Diwali, and Kindness conducted by Sambodhi. Intra-Collegiate Wordplay event related to English Vocabulary by Speaker's Club. MoU signed by the institute with Suvidha Mahila Mandal a non-profit organization that aims to impart education among a financially challenged section of society. Institute continuously conducts events that focus on developing universal human values among students.

File Description	Documents
Appropriate web in the Institutional website	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

### 7.3.2 - Plan of action for the next academic year

Institute has planned following for next academic year:

1. Institute has planned for development of laboratories for newly started cyber security and Artificial intelligence and data science departments. New computers and necessary software will be purchased for this purpose.
2. New computers will be purchased for Electronics and computer science Engineering department as it is renamed from earlier Electronics engineering department .This will help students in smooth conduction of practicals.
3. Recruitment of additional staff members will be made for newly started departments.
4. AICTE funded STTP has been planned for next academic year.
5. Lecture series on advance topic like artificial intelligence will be conducted in next year.
6. We are planning for academic autonomy and preparations will be done in this regards.
7. Celebration of Independence day and republic day will be done in grand scale in premises of institute.
8. Institute is planning for signing more MOU with industries .
9. As a step in implementing NEP 2020 enrollment of students for Academic bank of credit will be done.
10. Session on implementation of NEP pathways will be conducted for all the staff members.
11. Construction work for new building will be started .