



YEARLY STATUS REPORT - 2022-2023

Part A	
Data of the Institution	
1.Name of the Institution	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	prashant.khedkar@sakec.ac.in
• Address	MAHAVIR EDUCATION TRUST CHOWK,W.T.PATIL MARG,NEAR SHATBDI HOSPITAL,CHEMBUR
• City/Town	MUMBAI
• State/UT	MAHARASHTRA
• Pin Code	400088
2.Institutional status	
• Affiliated /Constituent	Affiliated non aided minority institution (Gujarati Jain minority)
• Type of Institution	Co-education

• Location	Urban				
• Financial Status	Self-financing				
• Name of the Affiliating University	Mumbai				
• Name of the IQAC Coordinator	Prof.Mahesh Patil				
• Phone No.	9029546137				
• Alternate phone No.	02225580854				
• Mobile	8369284061				
• IQAC e-mail address	iqac@sakec.ac.in				
• Alternate Email address	registrar@sakec.ac.in				
3.Website address (Web link of the AQAR (Previous Academic Year)	https://www.sakec.ac.in/internal-quality-assurance-cell-iqac/				
4.Whether Academic Calendar prepared during the year?	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:	https://www.sakec.ac.in/academic-calendar/				
5.Accreditation Details					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A	3.16	2021	20/10/2021	19/10/2026
6.Date of Establishment of IQAC			03/01/2019		
7.Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,					
Institutional/Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount	
Mr. Uday Bhave	Research Project	Indian Knowledge System, AICTE	2022-23	125000	

8. Whether composition of IQAC as per latest NAAC guidelines	Yes	
<ul style="list-style-type: none"> • Upload latest notification of formation of IQAC 	View File	
9. No. of IQAC meetings held during the year	03	
<ul style="list-style-type: none"> • Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website? 	Yes	
<ul style="list-style-type: none"> • If No, please upload the minutes of the meeting(s) and Action Taken Report 	No File Uploaded	
10. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No	
<ul style="list-style-type: none"> • If yes, mention the amount 		
11. Significant contributions made by IQAC during the current year (maximum five bullets)		
Alumni meeting is conducted for guiding students for placement.		
Internship opportunities were facilitated by the institute resulting in steep rise in number of students getting paid internships.		
NSS activities are promoted such as blood donation drive, health check up for staff, celebrations of national holiday etc.		
Various opportunities were given for the students to work on live projects through internships as well as through research cell of the institute.		
In order to provide opportunities for students to elaborate and extend their learning and make them future ready ,we had organized and implemented Intel AI Bootcamp for building AI readiness for students.		
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		

Plan of Action	Achievements/Outcomes
1) Proposed the establishment of Incubation Centre.	1) Incubation Centre established on 15th August 2022
2) NSS Activities should be sustainable.	2) Increase in no. of NSS activities and volunteers.
3) Proposed the establishment of CyberPeace Centre of Excellence.	3) launched SAKEC-CyberPeace Centre of Excellence on 14th October 2022.
4) Action Research	4) "Action research-connecting research, theory and classroom practices" event conducted on 1st October 2022

13. Whether the AQAR was placed before statutory body?	Yes
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- Name of the statutory body

Name	Date of meeting(s)
Mahavir education trust board	12/01/2024

14. Whether institutional data submitted to AISHE
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Year	Date of Submission
2022-23	29/01/2024

15. Multidisciplinary / interdisciplinary
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In view of requirements of the society, institute has taken a number of steps in order to become multidisciplinary institution. Honors degree has been 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 has been offered to the third year students of the institution who fulfill the eligibility norms as specified by Mumbai University 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. The 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 field of Robotics, Electronics, Data Science and Security, which cover multidisciplinary subjects. College is affiliated with Mumbai university and currently does not have flexible curriculum with multiple entry and exit facility. However the college has been conferred autonomy from 2024 , so that it can have flexible curriculum with multiple entry/exit .There is a fully functional research cell doing research in interdisciplinary areas .

Institutional values and best practices: 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 the expert judges are incorporated by the students ,which help in improving their performance in these project competitions

16.Academic bank of credits (ABC):

a) As per the directives of the University of Mumbai, the institution has made all the students enrolled in the institution to register under the ABC portal. The Institution has captured the ABC Ids of the students and forwarded to the University.

b) ABC Ids is made as a part of admission process of Academic year 2023-24.

c)Guidelines from Mumbai university regarding credit transfer is awaited.

17.Skill development:

1. At the beginning of every academic year, the training cell conducts two weeks training programme for final year students to improve soft skills. Soft skills training 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. It was organised by the Faculty Development Program on Business Communication on Saturday, 2nd September 2023 and conducted by TCS.
3. Organized a Comprehensive FDP by BAPS (IPDC Team) to offer valuable guidance and support to teaching staff , enabling them to enhance their abilities and achieve higher levels of

excellence in educating students on 8 July 2023

4. 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. Page 6/134 13-03-2023 02:18:34 Self Study Report of SHAH AND ANCHOR KUTCHHI ENGINEERING COLLEGE

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, which decides and revises the curriculum periodically. We are in planning phase for IKS.Following activities were conducted in IKS domains:

1. Seven students have completed the IKS internships from 15th July2022 to 15th September 2022. Problem statements submitted by three faculties were accepted for Internship of July- Sep 2022.

2.Institute participated in IKS mela in Delhi in July 2022

3. IKS-SAKEC cell, that was launched on Sep 15th, 2022. Noted IKS

scholar Shri. Shashikant Shukla, the chief guest, enlightened the audience the holistic approach of analysis that is embedded in Indian traditional lifestyle!

5. Faculty coordinators of IKS delivered a session on, "IKS awareness & Study groups formation" for SAKEC staff on Oct 14th, 2022.

6. "Spirituality & Leadership" guest lecture was organized on 27th Oct 2022 as part of personality building activities of IKS-SAKEC. Speaker, Ms. Kirti Shetty, Head CSR Compliance, RBL bank enriched the audience with the concepts of 'Transformational Leadership', desirable qualities of a good leader!

7. Dr. A. Chaudhary, of IIT Kharagpur & Dr. G. Murthy, IIT Indore gave interesting sessions on, "Relevance of Sanskrit and native Indian Technology to a modern Engineer" and "Support of IKS division of AICTE for an Engineering College aspiring to integrate Indian native technology" on the inaugural day of the STTP organized by IT dept, SAKEC, on 10th Jan 2023. Mr. Thyagaraju H, an active IKS member & Scientific officer of BARC gave a session on, "Qualitative research methodology that comes handy for IKS projects

8. On 12th January 2023, Dr. Dipika Hingu, of Varni Yoga academy gave a highly informative session on, "Diet as per Indian Knowledge System", elaborating on the ways to incorporate household ingredients in daily diet.

9. Publications on Vedic Multiplier Using Carry look ahead adder," 5th ICAST, Mumbai, India, 2022 and "Study of Lakshana granthas for exploring the Rasa and Bhava in Ragas" are in IKS domains

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

Institute has been successfully implementing Outcome Based Education with periodic reviews and subsequent improvements are 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 which are measurable 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) Page 8/133

07-10-2023 10:34:43 Annual Quality Assurance Report of SHAH AND ANCHOR KUTCHHI ENGINEERING COLLEGE 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 and Performance indicator of competency level, 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, mini projects 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 real world 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[1]learning by exploring and analyzing 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. Regular feedback is taken from students to understand efficacy of learning process, this enables to make improvements.

20.Distance education/online education:

At Shah and Anchor Kutchhi Engineering College, we implement modern technology in education. We provide every newly admitted student and staff member with their own Gmail and MS Teams accounts upon their

admission or employment. These accounts become an essential tool in their academic journey, enabling teachers to form teams for their respective classes and subjects, and share resource materials such as textbooks, notes, assignments, and PowerPoint presentations.

The Gmail and MS Teams accounts also offer other vital features. Teachers can create polls, quizzes, and assignments for a more engaging learning experience. In recent times, these facilities have become a necessity as the younger generation prefers resources to be readily available online.

At Shah and Anchor Kutchhi Engineering College, we offer two unique platforms for distance/online education:

Philophysics Mobile App: This application, developed by SAKEC, is designed to tackle what is often considered one of the most challenging subjects for first-year engineering students: Engineering Physics. The app contains notes, quizzes, concept maps, solved problems, and unsolved problems. It is available for all students across various colleges. The app has been enriching the online learning experience in the subject of Engineering Physics for several years. Find the app on the Google Play Store here:

https://play.google.com/store/apps/details?id=com.philophysics.ephysicsapp&hl=en_IN&gl=US&pli=1

Practical Sessions via Online Tools, Emulation, and Simulation Software: We also conduct a number of practical sessions using online tools and free open-source software. For the first-year labs that are not software-based, we've created virtual environments to ensure uninterrupted learning. Find the virtual labs developed by our college on the college website

here: <https://www.shahandanchor.com/VLab/> Students use platforms such as CISCO, SWAYAM, MOOCS, MATLAB, spoken tutorial for getting practical experience. Library access of NDL is provided.

At SAKEC, our priority is to ensure that students don't miss out on learning, even when they're at home. We're committed to providing the best possible education and resources to help our students succeed.

Extended Profile

1. Programme

1.1

384

Number of courses offered by the institution across all programs during the year		
File Description	Documents	
Data Template	View File	
2.Student		
2.1		2440
Number of students during the year		
File Description	Documents	
Institutional Data in Prescribed Format	View File	
2.2		01
Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year		
File Description	Documents	
Data Template	View File	
2.3		447
Number of outgoing/ final year students during the year		
File Description	Documents	
Data Template	View File	
3.Academic		
3.1		141
Number of full time teachers during the year		
File Description	Documents	
Data Template	View File	
3.2		164
Number of sanctioned posts during the year		

File Description	Documents
Data Template	View File
4.Institution	
4.1 Total number of Classrooms and Seminar halls	39
4.2 Total expenditure excluding salary during the year (INR in lakhs)	975.56431
4.3 Total number of computers on campus for academic purposes	1225

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 adheres to its curriculum. The institute has a well structured mechanism for curriculum delivery and monitoring. Every course in-charge creates course Information form for Internal Evaluation (CIFIE) which contains information about the weightages assigned to each CO and assessment methods and mappings between each CO & PO-PSO. Gaps are managed by planning and conducting extra experiments, expert sessions or lectures by the teachers. Individual faculty members maintain faculty diary which is checked fortnightly by the designated senior faculty member. Classroom teaching is augmented with suitable ICT tools and techniques such as ICT, PI, collaborative Learning, Quizzes, polls, etc. Beyond curriculum experiments are conducted and students are encouraged to undertake real world problem statements for their mini-projects to bridge the gap between industry and academic curriculum. The institute conducts various events and industrial visits and facilitates in-house and outside internship opportunities to provide students a practical perspective on the world of work. Students participate in various national and international level competitions such as Avishkar, Hackathon, Deep Blue Hackathon, etc. For early exposure to research, students are encouraged to participate in research projects facilitated through various MoUs. Students are motivated to publish their research work.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	https://drive.google.com/file/d/1nPTxHRu_nmB_1I7R-WT2IXRusWFv82PTo/view?usp=drive link

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, the academic dean prepares the academic calendar of the institute aligned with the university academic calendar after discussion with the Principal, HODs, Examination In-charge and various student bodies. All the academic activities strictly adhere to the calendar for the complete term. HOD conducts department meeting at start of the semester. ICT based teaching is encouraged. Institute has smart classrooms, List of experiments are prepared and displayed in all the laboratories as per schedule mentioned in the calendar. 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 and faculty diary checking are done by senior teachers as per planning. Internal assessment test schedule and date for declaration of results are planned in the academic calendar which helps the students to plan their activities. College has an effective student mentoring system. Meetings with mentors are conducted as per schedule in the calendar. Regular meetings foster a strong bond between mentors and mentees Mentors maintain interaction with parents regularly. Extracurricular and co-curricular activities, sports, cultural programs, Industrial Visits, Regular project Reviews etc are planned in the calendar and executed accordingly.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	Nil

1.1.3 - Teachers of the Institution participate in A. All of the above 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 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	View File
Any additional information	View File

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

6

File Description	Documents
Any additional information	View File
Minutes of relevant Academic Council/ BOS meetings	View File
Institutional data in prescribed format (Data Template)	View File

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)

7

File Description	Documents
Any additional information	View File
Brochure or any other document relating to Add on /Certificate programs	View File
List of Add on /Certificate programs (Data Template)	View File

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

283

File Description	Documents
Any additional information	View File
Details of the students enrolled in Subjects related to certificate/Add-on programs	View File

1.3 - Curriculum Enrichment

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

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

The curriculum includes courses such as Environmental Studies, Project management, Professional communication & Ethics, Business communication & ethics, Cyber security, and IPR which address the issues of environmental sustainability & professional ethics.

We have "URKUND? plagiarism detection software and IPR Cell to understand ethics of profession.

The various events are conducted by NSS as

College Campus Cleaning and Swatchhta Oath Ceremony(AKAM)

Har GharTiranga Rally (AKAM)

Flag Distribution in Adopted areas (AKAM)

Independence Day Celebration

Spreading awareness regarding paired state

IETE Head Office Cleaning

International Coastal Clean-up Day

Sanitary Pad Distribution (PoshanMaah)

Nutritional talk For Pregnant Women (PoshanMaah)

Distribution of nutrition kit to pregnant women in Adopted area (PoshanMaah)

Talk on Nutrition 101 for primary school children in adopted village (PoshanMaah)

Handicraft Exhibition by Autistic Children of Sunshine School, Vashi

Blood Donation Camp Eye Check-up Camp

Worlds AIDS Day

v4Organ Donation

Road safety day

Pledge on Youth Day

Yoga Drive

File Description	Documents
Any additional information	No File Uploaded
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View File

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

55

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

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

237

File Description	Documents
Any additional information	View File
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File

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	https://drive.google.com/file/d/1l0tx9IiehHVWyLuxFjIohG3zy2tkUVyi/view?usp=drive_link
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View File
Any additional information	View File

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	View File
URL for feedback report	https://drive.google.com/file/d/1l0tx9IiehHVWyLuxFjIohG3zy2tkUVyi/view?usp=drive_link

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

742

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

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

198

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

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, Intel, CISCO training courses.
- 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	https://drive.google.com/file/d/1yp2I4v5zrVn_gyobbMAj4RTHSxTI_WP1C/view?usp=sharing
Upload any additional information	View File

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

Number of Students	Number of Teachers
2440	141

File Description	Documents
Any additional information	View File

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	View File
Link for additional information	https://drive.google.com/file/d/1x4zFH8uo-bFcmDD9z1S1NORkNylH_vpY/view?usp=sharing

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	View File
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View File

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

111

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

2.4 - Teacher Profile and Quality

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

164

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	View File
List of the faculty members authenticated by the Head of HEI	View File

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

17

File Description	Documents
Any additional information	View File
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)	View File

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

1470

File Description	Documents
Any additional information	View File
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	View File

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	View File
Link for additional information	https://drive.google.com/file/d/1HxE8F_ADamo_hm4xdy2UDR_z09z1ksFG3/view?usp=sharing

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	View File
Link for additional information	https://drive.google.com/file/d/1Lm0B4rtl1XB1n2mD5i4pBNUwdctEbekX/view?usp=sharing

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.

Course Outcomes are a comprehensive set of learning goals that are developed across that particular course. They reflect the competencies needed to meet the challenges of that course. COs have been thoughtfully defined for all courses across the various programs being offered.

University of Mumbai has specified the course outcomes for each subject and based on that, the Institute has developed its objectives to improve the efficiency and effectiveness of the course content delivery. While designing it, Bloom's Taxonomy is also kept into consideration.

At the beginning of the semester all courses in charge insure the dissemination of the COs to the students.

In order to improve the quality of teaching and learning, the Institute has also developed Program Outcomes (POs) and Program Specific Outcomes (PSOs). All these are disseminated to the stakeholders through the following channels:

- Digital Media
 - Institute Website
- Print media

1. Faculty Diary

2. Course File

- Outdoor - Boards at prominent places

1. Instructional Areas(Classrooms)

2. Laboratories

3. Seminar halls

- Administrative Areas- department offices, Faculty rooms
- Activities/Meetings

1. Orientation/ Induction Programme

2. Dissemination at the first lecture

3. Departmental meeting

4. Department advisory Board (DAB) meetings and their suggestions are incorporated.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	https://drive.google.com/file/d/1Ed-1W707iHmLzCljWV2X5D6Qg35B8wGR/view?usp=sharing
Upload COs for all Programmes (exemplars from Glossary)	View File

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	View File
Paste link for Additional information	https://drive.google.com/file/d/1rfWIBOXSEaM07S_hezAEJf9pdJff4ef3/view?usp=sharing

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

425

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View File
Upload any additional information	View File
Paste link for the annual report	https://drive.google.com/file/d/1KlOBzZQgoAHAchVPwVPvMo2lFynqzfZa/view?usp=sharing

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/1deNTrDtD9ZWge_v5XVyQbH3RU63GsZMR/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)

225000

File Description	Documents
Any additional information	No File Uploaded
e-copies of the grant award letters for sponsored research projects /endowments	View File
List of endowments / projects with details of grants(Data Template)	View File

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

0

File Description	Documents
Any additional information	No File Uploaded
Institutional data in prescribed format	View File

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

3

File Description	Documents
List of research projects and funding details (Data Template)	View File
Any additional information	No File Uploaded
Supporting document from Funding Agency	No File Uploaded
Paste link to funding agency website	https://iksindia.org/

3.2 - Innovation Ecosystem

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

The Institute made efforts on possible fronts to foster the culture of research, innovation and entrepreneurship. The efforts include

participation in Institute Innovation Council 5.0, new linkages, collaborations, recognition, encouragement for IPRs, startups, organization of seminars, workshops and competitions.

The Institute took a major step towards fostering the culture of entrepreneurship by starting the Technology Business Incubator (SAKEC-TBI) in the Institute premises. The staff and students can use the space, equipment and other infrastructural facilities for their startups.

The Institute participated in Institute Innovation Council 5.0 and organized 48 activities as per the new guidelines laid by the MIC scoring 3 star rating. IIC organized special workshops for Design Thinking, problem identification inviting the renowned speakers like Mr. Vinayak Shastri carried out both physical and virtual modes in which 1500 students participated.

The Entrepreneurship and Innovation Cell organized a national level startup pitching event in which 13 startups from different states of the country participated and presented their business ideas in front of the group of 7 highly reputed investors/mentors. The event turned out to be a grand success with 30% startups winning the investment and almost all the startups receiving precious insights/guidelines for their businesses from these mentors.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.sakec.ac.in/

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

121

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	View File

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)	View File
Any additional information	No File Uploaded

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

67

File Description	Documents
Any additional information	No File Uploaded
List of research papers by title, author, department, name and year of publication (Data Template)	View File

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

27

File Description	Documents
Any additional information	View File
List books and chapters edited volumes/ books published (Data Template)	View File

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

To ensure the holistic growth of the students, the Institute relentlessly pursues new opportunities by the following ways:

MOUs: Nine MOUs with the Organizations like CyberPeace Council, DigiSec360IN etc. were done.

Research Projects: The students are working on different research projects funded by AICTE's Indian Knowledge System. The projects are from a variety of domains and complexities giving opportunity to the several students.

Institute's Social Responsibility: In order to sensitize the students towards social, cultural and national issues, the Institute carried out 43 activities in the years 2022-23. The activities were either carried out by the individual departments, cells or professional bodies or under the guidance of state or central Government through NSS.

Industrial Visits: An industrial visit to U.R Rao Satellite Center, Vishweshwaraiah Museum & HAL, Mysore from 7th to 14th January 2023 was organized. Forty seven students participated and gained the practical exposure of the functioning of the aerospace industry, the space technology used in U.R Rao Satellite Center, the contributions of Sir M. Vishweshwaraiah in the field of engineering, and the natural beauty of Coorg.

File Description	Documents
Paste link for additional information	Nil
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**

0

File Description	Documents
Any additional information	No File Uploaded
Number of awards for extension activities in last 5 year (Data Template)	View File
e-copy of the award letters	No File Uploaded

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**

45

File Description	Documents
Reports of the event organized	View File
Any additional information	No File Uploaded
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	View File

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**

2572

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	View File

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

530

File Description	Documents
e-copies of related Document	View File
Any additional information	No File Uploaded
Details of Collaborative activities with institutions/industries for research, Faculty	View File

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

9

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

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 total 39 Classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc.

2. **Laboratories:** The Institute has 50 well equipped laboratories out of which 33 are dedicated computer laboratories ready with powerful machines and licensed software.

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 28200 book volumes, 3599 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, and store room, placement cell, counselling centre, girls' common room, examination section and administrative office.

6. **IT Facilities:** The institute has a central server with 1225 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	View File
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 3780 sqm 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, Pratishta 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	View File
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.

39

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

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)

975.56431

File Description	Documents
Upload any additional information	No File Uploaded
Upload audited utilization statements	View File
Upload Details of budget allocation, excluding salary during the year (Data Template)	View File

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 it includes online resources services like Circulation, Reference, Referral, CD viewing, Online searching.

NVDA (Non-Visual Desktop Access) Screen Reader facility is available in the library. This will enable visually impaired clientele to use the computers/internet.

Automation of the Library plays an important role in supporting academic programmes. SAKEC has developed its own In-house ILMS Software called Library. It is accessible to all the staff and students. The functions of this Library Management System are automated. It was updated in December 2019.

- Daily issue/return records can be obtained.
- There is a provision for adding the master database of Vendors, Publishers, fine etc.
- Yearly book purchase detail report can be generated.
- Accession register can be generated.
- Barcode printing option is available...
- There is a provision for adding the status of the book, like whether it is kept for binding, not traceable, insect infested etc.

File Description	Documents
Upload any additional information	View File
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	View File
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	No File Uploaded

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)

70.45

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

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

178

File Description	Documents
Any additional information	No File Uploaded
Details of library usage by teachers and students	View File

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	View File
Paste link for additional information	Nil

4.3.2 - Number of Computers

1225

File Description	Documents
Upload any additional information	No File Uploaded
List of Computers	View File

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	View File

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)

456.77644

File Description	Documents
Upload any additional information	No File Uploaded
Audited statements of accounts	View File
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View File

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 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	View File
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

601

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	View File
Upload any additional information	No File Uploaded
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	View File

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

6

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

**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	https://www.sakec.ac.in/professional-bodies/
Any additional information	View File
Details of capability building and skills enhancement initiatives (Data Template)	View File

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

96

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

96

File Description	Documents
Any additional information	View File
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	View File

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	View File
Upload any additional information	View File
Details of student grievances including sexual harassment and ragging cases	View File

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

210

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File
Details of student placement during the year (Data Template)	View File

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

42

File Description	Documents
Upload supporting data for student/alumni	View File
Any additional information	View File
Details of student progression to higher education	View File

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	View File
Any additional information	View File
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	View File

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.

09

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

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.

Aurum - the technical fest, and Verve- the cultural fest and Olympus- the annual Sports and Athletics events are some of the most looked upon events that enrich the experience of student's community. 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.

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	https://www.sakec.ac.in/student-council/
Upload any additional information	View File

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	View File
Upload any additional information	View File
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)	View File

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.

File Description	Documents
Paste link for additional information	https://www.sakec.ac.in/samparka/
Upload any additional information	View File

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

File Description	Documents
Upload any additional information	No File Uploaded

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

Institute has started the construction of additional building in its campus through a grand opening ceremony in July 2023. SAKEC has granted Autonomous Status for a period of 10 years by University Grants Commission, New Delhi from the academic year 2024-25. In order to implement autonomy various committees have been set up as per requirement and autonomy implementation work has been started.

Our purpose at Shah & Anchor Kutchhi Engineering College is to provide cutting-edge technical and management education in the burgeoning fields.

SAKEC is focused on providing enriching curricular and extra-curricular experiences and quality deals to all stakeholders. In order to keep up with the most recent upgrade in technical infrastructure, all laboratories are air conditioned.

The department of Computer Engineering and Information Technology have upgraded their laboratories with the latest equipments. There are digital class rooms in the institutions.

To empower students with life-long career decision-making skills, we have started the internship cell. The department of Computer Engineering, the department of Information Technology from 2022-23 for three years, is certified by the National Board of Accreditation (NBA).

The Department of Electronics and Telecommunications Engineering has applied for NBA accreditation and self study report SSR has been submitted.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

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

Case study : I

17th Aavishkar Research Convention 2022-2023

Shah & Anchor Kutchhi Engineering college in collaboration with the Department of Student Development, University of Mumbai, has organized the 17th Avishkar Research Conference for the academic year 2022-2023 on December 23, 2022 in Zone IX All Districts The Polytechnic/Research Institute Zone Round was successfully hosted.

The participatory management of the Institute is reflected in this event. With collaboration of the Department of student Development and The Principal, Board and Head of department, councils are involved in defining the procedure, regulation, to form committees for smooth functioning and implementation of the event. To ensure that all deadlines of the Committee are met, the Core Committee has prepared tasks and timeframes. The event was hosted and executed by committee members, staff members and students and due to this decentralization of authority, proper allocation of work, the event to prove a successful organization of academic events that enrich and update the knowledge of academic colleagues. Develop a platform for all researchers, academics and industry professionals to come up with novel ideas in the field of science.

The institution has an important role to play in ensuring that

hosted events are carried out smoothly. In order to ensure that the event is planned and implemented, various committees have been set up as per requirement of the department of students development of Mumbai University guideline . This hosted event is attended by the Participative Management of the Institute.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

Shah and Anchor Kutchhi College of Engineering has made perspective plans in the field of teaching-learning, accreditation, and research. Each plan is developed by the Principal, the heads of the various departments, and other teaching staff, for the next five years.

In order to align with the demands of the industry, the institution planned to have more courses in academics. Two more undergraduate programs, B.E in Electronics with specialization in VLSI Design and B.E in Electronics and Telecommunication with specialization in Advanced Communication, will commence their first year of academics in the academic year 2023-24.

To elevate the academic standards further and to encourage research, the institution has planned to start PhD in Information Technology. This will be commencing from the academic year 2023-24. To promote interdisciplinary academics, the institution also established IKS (Indian Knowledge Systems), under which, staff and students were granted internships. The college has teamed up with Mathworks and the institution is now Mathworks Credentialed Campus.

Center of Excellence for Research and Development in the field of Cyber Security in SAKEC has also been established. 17th inter-collegiate Avishkar research convention was conducted in Sakec on 7th December 2022. 25 copyrights were filed, of which, 14 copyrights were registered.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

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.

Shah and Anchor Kutchhi Engineering College is managed by the trust Board and the Governing Body, constituted as per the guidelines of AICTE. The institute is affiliated to University of Mumbai, and follows the rules set by Government of Maharashtra.

The institution has decentralized its operations and has delegated authority at various levels. Principal takes guidance, directions and approvals from the Governing body and the Management Trust Board for various activities of the Institute.

The Principal heads all the academic and administrative activities of the institution by monitoring the overall functioning of all the bodies that fall in the chart.

The Institute has IQAC and other committees working under Principal to strengthen academic quality.

Principal interacts directly with HoDs, Deans, Registrar, Librarian, Controller of Exams, Heads of various cells, and Student Council for planning the academic calendar and for conduction of activities in the departments or 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.

Every department and cell is granted the freedom to conduct activities under its umbrella, with Principal's guidance.

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

File Description	Documents
Paste link for additional information	Nil
Link to Organogram of the institution webpage	https://www.sakec.ac.in/institute-organogram/
Upload any additional information	View File

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	View File
Screen shots of user inter faces	View File
Any additional information	View File
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	View File

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 of awareness program Like Yoga session.
2. Availability of councilor to solve psychological problems.
3. Encouragement through reimbursement to scholars for MOOC exams
4. Encouragement through Higher Studies policies for higher qualification improvement. One day off per week is given for staff persuing PhD.
5. Availability of Digital library facility with good subscriptions.

6. Availability of recreational activities, Sports & Gymkhana.

7. Opportunity to conduct/ attend seminar/workshop /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. Fee reimbursment for toppers of class.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

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

31

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

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

6

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	View File
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View File

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

64

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

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 from Head of the Department to the Principal.

2) Appraisal system for non-teaching staff: Non-teaching staff performance is evaluated every academic year based on coworker 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	View File

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

Auditors of Shah and Anchor Engineering College conduct the internal audit on a regular basis. The accounts department maintains relevant records of all the account statements. Every year college prepares a budget well in advance in which provision is made for all department requirements 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, building maintenance and future goals. Every department is provided with two lakh rupees which the department utilizes as per departmental 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 and department finance committee. 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 excellent financial health of the college.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

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)

0.615

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

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

The SAKEC has a well-defined 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	View File

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

The IQAC is involved in edging the quality policies for Teaching-Learning, Research and various student activities ,Conducting workshops, FDPs on emerging technologies, Conducting Guest Lectures from Industry/Experts. IQAC monitor and evaluate the teaching & learning processes, with the feedback from the stakeholders. As per IQAC cell guidance currently all the cells have operating manuals.

Based on the academic calendar issued by the University, Institute defines the schedule for the academic year and publishes the academic calendar. IQAC cell of the institute and dean of academics prepare academic calendar. At the beginning of the semester, various activities, like FDP, student development programs, guest lectures, and cultural events are planned. The faculty creates course outcomes (CO) and lesson plan of the concerned course, the faculty maps the CO with the program outcomes (PO) and define levels. Academic auditing will be done by the head of the department..

Usage of smart classrooms in all departments.

IQAC analyzed the feedback received from the students and faculties and continue to implement the smart class room in the campus. Different technology components such as interactive boards,

audio/video elements, management system, and mobile computing contribute to a smart classroom, also in synergy with each other. Side by side with these, innovations in pedagogy, regarding content delivery, student engagement, and assessment, also contributes to making a classroom smart. It also provides academic and digital learning. More paid internship is given to students.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

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 believe need for updating knowledge. Action Research event arranged by IQAC cell to measure the effectiveness of the Teaching and Learning process. Institute provides training in soft skill and technical skill 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. IQAC 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. Parent teacher meeting is held once in a semester and parent's feedback is collected. Feedback for Extra & Co-curricular activity is collected, consolidated and analyzed by each department. Feedback is also collected from alumni. The corrective actions are always

implemented. Institute has taken facility feedback from staff members.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

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	https://www.sakec.ac.in/annual-reports/
Upload e-copies of the accreditations and certifications	View File
Upload any additional information	View File
Upload details of Quality assurance initiatives of the institution (Data Template)	View File

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

NSS SAKEC organized "Poshan maah Distribution of Nutrition kit to pregnant women in adopted area", in collaboration with Lions and Leo Club of Chembur Icon.

Institute promoted applications from aspiring Women Entrepreneurs with innovative Ideas and Projects for Women entrepreneurship in waste management (WEWP) Conclave 2023.

Institute has organized different sports events for Boys and girls students as Olympus 2023 events.

SAKEC IIC 5.0 Committee in collaboration with E-Cell and Alumni Association conducted an event on Women Entrepreneurship's Day on 8th March, 2023.

Institute celebrated Women's Day on 8th March 2023 which was organized by NSS SAKEC and themed as a session on comprehensive knowledge on sexuality education.

NSS SAKEC organized a drive for National Girl Child Day on 24th January 2023 to aware the importance of their mothers as well as the girl child.

Research Cell SAKEC and Indian Development Foundation (IDF) collaborated to launch the "Light Of Goodness" project, for women businesses on October 14th, 2022.

SAKEC Research cell in association with Green Pencil Foundation conducted Menstrual Health and Hygiene Awareness program on 18 September 2022.

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	https://sakec-my.sharepoint.com/:b:/g/personal/naac_sakec_onmicrosoft_com/ESLHKVCHC39PtXD_s3dhkwAB7V4pcLWa00fC21SuJ3QPdQ?e=GPSGpd
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	https://sakec-my.sharepoint.com/:b:/g/personal/naac_sakec_onmicrosoft_com/EeDQpNUKKf9IgyUzSIPObrWBML4j0fpz5oAEqteOga-uVg?e=Ru7Pgy

7.1.2 - The Institution has facilities for alternate sources of energy and energy

B. Any 3 of the above

**conservation measures Solar energy
Biogas plant Wheeling to the Grid Sensor-
based energy conservation Use of LED bulbs/
power efficient equipment**

File Description	Documents
Geo tagged Photographs	View File
Any other relevant information	No File Uploaded

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

Major solid waste produced on campus is in the form of papers and plastic. To manage it, the college has a paper shredding machine. The concept of a paperless office is implemented in the institute. Another 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 the event "Bottles for change" on 20th October 2022 in that plastic collection drive total 58 kg plastic was collected.

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.

Everyone should segregate the dry waste from wet waste, keep it clean and dispose of it for recycling. Collection initiative by Sampurn(e)arth Environment Solutions Pvt. Ltd. aims to educate citizens about the effective and the right way to dispose of dry waste.

Laboratory Assistants and technicians check and repair damaged electronic instruments. Irreparable instruments are mentioned in the scrap equipment list prepared by each department.

Institute has signed MoU with M/s Click Computers for the disposal of E-Waste.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	View File
Geo tagged photographs of the facilities	View File

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	View File
Any other relevant information	View File

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	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	View File

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

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

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	No File Uploaded
Any other relevant information	View File

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	View File
Policy documents and information brochures on the support to be provided	View File
Details of the Software procured for providing the assistance	No File Uploaded
Any other relevant information	View File

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. NSS SAKEC organised " Poshan maah Distribution of Nutrition kit to pregnant women in adopted area" on the occasion of National NSS day, in collaboration with Lions club of Chembur Icon and Leo Club of Chembur Icon.
2. Department of Electronics & Telecommunication Engineering in Collaboration with MUSE foundation have organized the session on " Climate change" on 14th September 2022 from 10.00 am to 12:00 pm
3. SAKEC celebrated 75th Independence day ,which was organized by NSS SAKEC on 15th August 2022 and was themed as 75th Azadi ka Amrit mahotsav
4. NSS SAKEC organised "Poshan Maah:Tree plantation"on the occasion of National NSS day,in collaboration with the Lions Club of Chembur Icon and Leo Club of Chembur Icon.
5. NSS SAKEC organized an Online Quiz Competition based on Work Ethics and Life achievements of Netaji Subhash Chandra Bose
6. Shah and Anchor Kutchhi Engineering College (SAKEC) celebrated Women's Day themed as a session on comprehensive knowledge on sexuality education.
7. SAKEC Movie club Launch and screening of Movie on environment on 27th July 2022.
8. NSS SAKEC organized a drive for National Girl Child Day on 24th January 2023.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File
Any other relevant information	View File

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 celebrated "Har Ghar Tiranga Rally" on 12th Aug 22 on the occasion of Azadi ka Amrit Mahotsav.
2. "Poshan Maah: Sanitary Pad Distribution" was organised by NSS SAKEC on the occasion of National NSS day, in collaboration with the Lions Club of Chembur Icon and Leo Club of Chembur Icon.
3. "Mazi Mumbai, Swachh Mumbai" was conducted in which Swachhata Abhiyan was organised by NSS SAKEC.
4. "Paper Crafting and Distribution" event was organised under "Mazi Mumbai, Swachha Mumbai" campaign.
5. NSS SAKEC organised a beach cleaning event under "Mazi Mumbai, Swachh Mumbai" at Juhu Beach.
6. NSS SAKEC organised an online awareness program about Organ Donation clarifying all the myths of organ donation.
7. Yoga Drive was conducted, from 10th Feb to 2nd Mar 23, by NSS SAKEC, spreading awareness about the importance of yoga and healthy life.
8. A blood donation camp associated with Pallavi Blood Bank, was organised on 21st Mar 23 at gymkhana of SAKEC.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	https://sakec-my.sharepoint.com/:b:/g/personal/naac_sakec_onmicrosoft_com/EcpobSa5wtJDrN2lDYNK1qWB-hvT8sJrLuKtTd6rU6UbSQ?e=RHzjfp
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, **A. All of the above**

teachers, administrators and other staff 4.
Annual awareness programmes on Code of Conduct are organized

File Description	Documents
Code of ethics policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	View File
Any other relevant information	No File Uploaded

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

SAKEC celebrated 75th Independence day, organized by NSS SAKEC on 15th Aug 2022 and was themed as 75th Azadi ka Amrit Mahotsav.

NSS SAKEC in collaboration with My Green Society organized an international coastal clean-up event in Worli, Mumbai.

NSS SAKEC & SAMBODHI SAKEC organized a "Quiz Competition" on the occasion of Mahatma Gandhi Jayanti. The quiz was about The Life achievements of the Great Mahatma Gandhi.

NSS SAKEC organized an Online "Quiz Competition" on 31st October in Shah & Anchor Kutchhi Engineering College, Mumbai campus itself. On the occasion of "Sardar Vallabhbhai Patel Jayanti" the quiz was conducted.

A Digital Poster making competition was organized by NSS SAKEC on World's AIDS Day.

SAKEC celebrated women's day by conducting a session on comprehensive knowledge on sexuality education on 8th Mar 23.

NSS SAKEC organized a Quiz on National Voters Day based on the voting rights and regulations of people of India.

Republic day events including inspirational speeches, Parade were organized.

Mother language day was celebrated in the form of article writing in various languages.

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	View File
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.

1. Title of the Practice Creating an IP landscape for the technical stakeholders.

2. Objective To encourage and provide direction to students and faculties for filing IPR applications.

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

4. The Practice

The IPR Cell conducts a hands-on session on copyright, patent and design filing for faculty and students.

5. Evidence of Success

The faculty and students have inculcated the habit of copyrighting their paper and research work.

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

.

1. Title of the practice:

Reimbursement of college fees to the toppers of FE, SE, TE and BE .

2. Objectives of the Practice: To support student’s education based on their outstanding academic performance. As a social responsibility to felicitate the students who excel in the examination.

3. The Context : It is a reward for academic achievements and offer financial assistance and help .

4. The Practice : Full reimbursement of fees is done for students as an appreciation.

5.Evidence of Success : The students who have received this reward said that this reimbursement has not only enhanced their academic performance but also boosted their confidence.

6.Problems Encountered and Resources Required: As the institute does not receive any grant from government ,it has to manage funds .

File Description	Documents
Best practices in the Institutional website	https://www.sakec.ac.in/others/naac-criteria-documents/
Any other relevant information	https://sakec-my.sharepoint.com/:b:/g/personal/naac_sakec_onmicrosoft_com/EYJmX7rN051DiLe-gMiHWCgBrYWtkOPB2Ozi-vhgLt-E5A?e=llCcjs

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

SAKEC-CyberPeace Centre of Excellence:

The institute in collaboration with CyberPeace Foundation,V4WEB Cybersecurity and Council for Fair Business Practices (CFBP) have launched SAKEC-CyberPeace COE on 14th October 2022.The centre aims

to nurture ideas and solutions through research , innovations in Cyber Scape. The COE also has a journal named " International journal on Internet of Governance and Cyber Security" which encourages technical paper writing skills among students, faculties and get their work peer reviewed from experts. The following are notable events conducted by the centre in the academic year 2022-2023.

CCTNS HACKATHON & CYBER CHALLENGE 2023 in collaboration with the National Crime Record Bureau, Ministry of Home Affairs, Govt. of India.

Global#CyberPeaceSummit2023, an integral part of G20 summit, fostering global dialogue on challenges and opportunities in cyberspace.

Research based products namely Linux Admin,Cygiene and HoneyTrack,courage2correct launched in the Global#CyberPeaceSummit2023.

Received research grant of 15 Lakh for Project.

A prize worth \$1,000 ,Intel certificate and award by the students of Cyber Security Department under prestigious Intel(R) AI Global Impact Festival 2023.

The center has honoured visits of dignitaries from the PMO office & Sun Group & , Israel National Cyber Directorate.

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 adheres to its curriculum. The institute has a well structured mechanism for curriculum delivery and monitoring. Every course in-charge creates course Information form for Internal Evaluation (CIFIE) which contains information about the weightages assigned to each CO and assessment methods and mappings between each CO & PO-PSO. Gaps are managed by planning and conducting extra experiments, expert sessions or lectures by the teachers. Individual faculty members maintain faculty diary which is checked fortnightly by the designated senior faculty member. Classroom teaching is augmented with suitable ICT tools and techniques such as ICT, PI, collaborative Learning, Quizzes, polls, etc. Beyond curriculum experiments are conducted and students are encouraged to undertake real world problem statements for their mini-projects to bridge the gap between industry and academic curriculum. The institute conducts various events and industrial visits and facilitates in-house and outside internship opportunities to provide students a practical perspective on the world of work. Students participate in various national and international level competitions such as Avishkar, Hackathon, Deep Blue Hackathon, etc. For early exposure to research, students are encouraged to participate in research projects facilitated through various MoUs. Students are motivated to publish their research work.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	https://drive.google.com/file/d/1nPTxHRu_nmB1I7R-WT2IXRusWFv82PTo/view?usp=drive_link

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, the academic dean prepares the academic calendar of the institute aligned with the university academic calendar after discussion with the Principal, HODs, Examination In-charge and various student bodies. All the academic activities strictly adhere to the calendar for the complete term. HOD conducts department meeting at start of the semester. ICT based teaching is encouraged. Institute has smart classrooms, List of experiments are prepared and displayed in all the laboratories as per schedule mentioned in the calendar. 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 and faculty diary checking are done by senior teachers as per planning. Internal assessment test schedule and date for declaration of results are planned in the academic calendar which helps the students to plan their activities. College has an effective student mentoring system. Meetings with mentors are conducted as per schedule in the calendar. Regular meetings foster a strong bond between mentors and mentees. Mentors maintain interaction with parents regularly. Extracurricular and co-curricular activities, sports, cultural programs, Industrial Visits, Regular project Reviews etc are planned in the calendar and executed accordingly.

File Description	Documents
Upload relevant supporting document	View File
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 of Curriculum for Add on/ certificate/ Diploma Courses Assessment /evaluation process of the affiliating University

A. All of the above

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	View File
Any additional information	View File

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

6

File Description	Documents
Any additional information	View File
Minutes of relevant Academic Council/ BOS meetings	View File
Institutional data in prescribed format (Data Template)	View File

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)

7

File Description	Documents
Any additional information	View File
Brochure or any other document relating to Add on /Certificate programs	View File
List of Add on /Certificate programs (Data Template)	View File

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

283

File Description	Documents
Any additional information	View File
Details of the students enrolled in Subjects related to certificate/Add-on programs	View File

1.3 - Curriculum Enrichment

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

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

The curriculum includes courses such as Environmental Studies, Project management, Professional communication & Ethics, Business communication & ethics, Cyber security, and IPR which address the issues of environmental sustainability & professional ethics.

We have "URKUND? plagiarism detection software and IPR Cell to understand ethics of profession.

The various events are conducted by NSS as

College Campus Cleaning and Swatchhta Oath Ceremony (AKAM)

Har Ghar Tiranga Rally (AKAM)

Flag Distribution in Adopted areas (AKAM)

Independence Day Celebration

Spreading awareness regarding paired state

IETE Head Office Cleaning

International Coastal Clean-up Day

Sanitary Pad Distribution (PoshanMaah)

Nutritional talk For Pregnant Women (PoshanMaah)

Distribution of nutrition kit to pregnant women in Adopted area (PoshanMaah)

Talk on Nutrition 101 for primary school children in adopted village (PoshanMaah)

Handicraft Exhibition by Autistic Children of Sunshine School, Vashi

Blood Donation Camp Eye Check-up Camp

Worlds AIDS Day

v4Organ Donation

Road safety day

Pledge on Youth Day

Yoga Drive

File Description	Documents
Any additional information	No File Uploaded
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View File

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

55

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

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

237

File Description	Documents
Any additional information	View File
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File

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	https://drive.google.com/file/d/1l0tx9IiehHVWyLuxFjIohG3zy2tkUVyi/view?usp=drive_link
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View File
Any additional information	View File

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	View File
URL for feedback report	https://drive.google.com/file/d/1l0tx9IiehHVWyLuxFjIohG3zy2tkUVyi/view?usp=drive_link

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

742

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

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

198

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

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, Intel, CISCO training courses.
- 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	https://drive.google.com/file/d/1yp2I4v5zrVngyobbMAj4RTHSxTI_WP1C/view?usp=sharing
Upload any additional information	View File

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

Number of Students	Number of Teachers
2440	141

File Description	Documents
Any additional information	View File

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	View File
Link for additional information	https://drive.google.com/file/d/1x4zFH8uo-bFcmDD9z1SlNORkNylH_vpY/view?usp=sharing

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	View File
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View File

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

111

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

2.4 - Teacher Profile and Quality

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

164

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	View File
List of the faculty members authenticated by the Head of HEI	View File

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

17

File Description	Documents
Any additional information	View File
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)	View File

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

1470

File Description	Documents
Any additional information	View File
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	View File

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	View File
Link for additional information	https://drive.google.com/file/d/1HxE8F_ADa_mohm4xdy2UDR_z09z1ksFG3/view?usp=sharing

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	View File
Link for additional information	https://drive.google.com/file/d/1Lm0B4rtl1XB1n2mD5i4pBNUwdctEbekX/view?usp=sharing

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.

Course Outcomes are a comprehensive set of learning goals that are developed across that particular course. They reflect the competencies needed to meet the challenges of that course. COs have been thoughtfully defined for all courses across the various programs being offered.

University of Mumbai has specified the course outcomes for each subject and based on that, the Institute has developed its objectives to improve the efficiency and effectiveness of the course content delivery. While designing it, Bloom's Taxonomy is also kept into consideration.

At the beginning of the semester all courses in charge insure the dissemination of the COs to the students.

In order to improve the quality of teaching and learning, the Institute has also developed Program Outcomes (POs) and Program Specific Outcomes (PSOs). All these are disseminated to the stakeholders through the following channels:

- Digital Media
 - Institute Website
- Print media

1. Faculty Diary

2. Course File

- Outdoor - Boards at prominent places

1. Instructional Areas(Classrooms)

2. Laboratories

3. Seminar halls

- Administrative Areas- department offices, Faculty rooms
- Activities/Meetings

1. Orientation/ Induction Programme

2. Dissemination at the first lecture

3. Departmental meeting

4. Department advisory Board (DAB) meetings and their suggestions are incorporated.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	https://drive.google.com/file/d/1Ed-1W707iHmLzCljWV2X5D6Qq35B8wGR/view?usp=sharing
Upload COs for all Programmes (exemplars from Glossary)	View File

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	View File
Paste link for Additional information	https://drive.google.com/file/d/1rfWIBOXSEaMO7S_hezAEJf9pdJff4ef3/view?usp=sharing

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

425

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View File
Upload any additional information	View File
Paste link for the annual report	https://drive.google.com/file/d/1KlOBzZQgoAHAchVPwVPvMo2lFynqzfZa/view?usp=sharing

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/1deNTrDtD9ZWge_v5XVyQbH3RU63GsZMR/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)****225000**

File Description	Documents
Any additional information	No File Uploaded
e-copies of the grant award letters for sponsored research projects /endowments	View File
List of endowments / projects with details of grants(Data Template)	View File

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****0**

File Description	Documents
Any additional information	No File Uploaded
Institutional data in prescribed format	View File

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****3**

File Description	Documents
List of research projects and funding details (Data Template)	View File
Any additional information	No File Uploaded
Supporting document from Funding Agency	No File Uploaded
Paste link to funding agency website	https://iksindia.org/

3.2 - Innovation Ecosystem

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

The Institute made efforts on possible fronts to foster the culture of research, innovation and entrepreneurship. The efforts include participation in Institute Innovation Council 5.0, new linkages, collaborations, recognition, encouragement for IPRs, startups, organization of seminars, workshops and competitions.

The Institute took a major step towards fostering the culture of entrepreneurship by starting the Technology Business Incubator (SAKEC-TBI) in the Institute premises. The staff and students can use the space, equipment and other infrastructural facilities for their startups.

The Institute participated in Institute Innovation Council 5.0 and organized 48 activities as per the new guidelines laid by the MIC scoring 3 star rating. IIC organized special workshops for Design Thinking, problem identification inviting the renowned speakers like Mr. Vinayak Shastri carried out both physical and virtual modes in which 1500 students participated.

The Entrepreneurship and Innovation Cell organized a national level startup pitching event in which 13 startups from different states of the country participated and presented their business ideas in front of the group of 7 highly reputed investors/mentors. The event turned out to be a grand success with 30% startups winning the investment and almost all the startups receiving precious insights/guidelines for their businesses from these mentors.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.sakec.ac.in/

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

121

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	View File

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)	View File
Any additional information	No File Uploaded

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

67

File Description	Documents
Any additional information	No File Uploaded
List of research papers by title, author, department, name and year of publication (Data Template)	View File

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

27

File Description	Documents
Any additional information	View File
List books and chapters edited volumes/ books published (Data Template)	View File

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

To ensure the holistic growth of the students, the Institute relentlessly pursues new opportunities by the following ways:

MOUs: Nine MOUs with the Organizations like CyberPeace Council, DigiSec360IN etc. were done.

Research Projects: The students are working on different research projects funded by AICTE's Indian Knowledge System. The projects are from a variety of domains and complexities giving opportunity to the several students.

Institute's Social Responsibility: In order to sensitize the students towards social, cultural and national issues, the Institute carried out 43 activities in the years 2022-23. The activities were either carried out by the individual departments, cells or professional bodies or under the guidance of state or central Government through NSS.

Industrial Visits: An industrial visit to U.R Rao Satellite Center, Vishweshwaraiah Museum & HAL, Mysore from 7th to 14th January 2023 was organized. Forty seven students participated and gained the practical exposure of the functioning of the aerospace industry, the space technology used in U.R Rao Satellite Center, the contributions of Sir M. Vishweshwaraiah in the field of engineering, and the natural beauty of Coorg.

File Description	Documents
Paste link for additional information	Nil
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

0

File Description	Documents
Any additional information	No File Uploaded
Number of awards for extension activities in last 5 year (Data Template)	View File
e-copy of the award letters	No File Uploaded

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

45

File Description	Documents
Reports of the event organized	View File
Any additional information	No File Uploaded
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	View File

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

2572

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	View File

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

530

File Description	Documents
e-copies of related Document	View File
Any additional information	No File Uploaded
Details of Collaborative activities with institutions/industries for research, Faculty	View File

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

9

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

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 total 39 Classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc.

2. **Laboratories:** The Institute has 50 well equipped laboratories out of which 33 are dedicated computer laboratories ready with powerful machines and licensed software.

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 28200 book volumes, 3599 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, and store room, placement cell, counselling centre, girls' common room, examination section and administrative office.

6. **IT Facilities:** The institute has a central server with 1225 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	View File
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 3780 sqm 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	View File
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.

39

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

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)

975.56431

File Description	Documents
Upload any additional information	No File Uploaded
Upload audited utilization statements	View File
Upload Details of budget allocation, excluding salary during the year (Data Template	View File

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 it includes online resources services like Circulation, Reference, Referral, CD viewing, Online searching.

NVDA (Non-Visual Desktop Access) Screen Reader facility is available in the library. This will enable visually impaired clientele to use the computers/internet.

Automation of the Library plays an important role in supporting academic programmes. SAKEC has developed its own In-house ILMS Software called Library. It is accessible to all the staff and students. The functions of this Library Management System are automated. It was updated in December 2019.

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

- There is a provision for adding the status of the book, like whether it is kept for binding, not traceable, insect infested etc.

File Description	Documents
Upload any additional information	View File
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	View File
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	No File Uploaded

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)

70.45

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

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

178

File Description	Documents
Any additional information	No File Uploaded
Details of library usage by teachers and students	View File

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	View File
Paste link for additional information	Nil

4.3.2 - Number of Computers

1225

File Description	Documents
Upload any additional information	No File Uploaded
List of Computers	View File

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	View File

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)

456.77644

File Description	Documents
Upload any additional information	No File Uploaded
Audited statements of accounts	View File
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View File

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 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	View File
Paste link for additional information	Nil

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

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

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

601

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	View File
Upload any additional information	No File Uploaded
Number of students benefitted by scholarships and free ships provided by the Government during the year (Data Template)	View File

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 benefitted by scholarships, free ships, etc provided by the institution / non- government agencies during the year

6

File Description	Documents
Upload any additional information	View File
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	View File
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	https://www.sakec.ac.in/professional-bodies/
Any additional information	View File
Details of capability building and skills enhancement initiatives (Data Template)	View File
5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year	
96	
5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year	
96	
File Description	Documents
Any additional information	View File
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File
5.1.5 - The Institution has a transparent	A. All of the above

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

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View File
Upload any additional information	View File
Details of student grievances including sexual harassment and ragging cases	View File

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

210

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File
Details of student placement during the year (Data Template)	View File

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

42

File Description	Documents
Upload supporting data for student/alumni	View File
Any additional information	View File
Details of student progression to higher education	View File

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	View File
Any additional information	View File
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	View File

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.

09

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

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.

Aurum - the technical fest, and Verve- the cultural fest and Olympus- the annual Sports and Athletics events are some of the most looked upon events that enrich the experience of student's community. 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.

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	https://www.sakec.ac.in/student-council/
Upload any additional information	View File

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

29

File Description	Documents
Report of the event	View File
Upload any additional information	View File
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)	View File

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.

File Description	Documents
Paste link for additional information	https://www.sakec.ac.in/samparka/
Upload any additional information	View File

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

E. <1Lakhs

File Description	Documents
Upload any additional information	No File Uploaded

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

Institute has started the construction of additional building in its campus through a grand opening ceremony in July 2023. SAKEC has granted Autonomous Status for a period of 10 years by University Grants Commission, New Delhi from the academic year 2024-25. In order to implement autonomy various committees have

been set up as per requirement and autonomy implementation work has been started.

Our purpose at Shah & Anchor Kutchhi Engineering College is to provide cutting-edge technical and management education in the burgeoning fields.

SAKEC is focused on providing enriching curricular and extra-curricular experiences and quality deals to all stakeholders. In order to keep up with the most recent upgrade in technical infrastructure, all laboratories are air conditioned.

The department of Computer Engineering and Information Technology have upgraded their laboratories with the latest equipments. There are digital class rooms in the institutions.

To empower students with life-long career decision-making skills, we have started the internship cell. The department of Computer Engineering, the department of Information Technology from 2022-23 for three years, is certified by the National Board of Accreditation (NBA).

The Department of Electronics and Telecommunications Engineering has applied for NBA accreditation and self study report SSR has been submitted.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

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

Case study : I

17th Aavishkar Research Convention 2022-2023

Shah & Anchor Kutchhi Engineering college in collaboration with the Department of Student Development, University of Mumbai, has organized the 17th Avishkar Research Conference for the academic year 2022-2023 on December 23, 2022 in Zone IX All Districts The Polytechnic/Research Institute Zone Round was successfully hosted.

The participatory management of the Institute is reflected in this event. With collaboration of the Department of student Development and The Principal, Board and Head of department, councils are involved in defining the procedure, regulation, to form committees for smooth functioning and implementation of the event. To ensure that all deadlines of the Committee are met, the Core Committee has prepared tasks and timeframes. The event was hosted and executed by committee members, staff members and students and due to this decentralization of authority, proper allocation of work, the event to prove a successful organization of academic events that enrich and update the knowledge of academic colleagues. Develop a platform for all researchers, academics and industry professionals to come up with novel ideas in the field of science.

The institution has an important role to play in ensuring that hosted events are carried out smoothly. In order to ensure that the event is planned and implemented, various committees have been set up as per requirement of the department of students development of Mumbai University guideline . This hosted event is attended by the Participative Management of the Institute.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

Shah and Anchor Kutchhi College of Engineering has made perspective plans in the field of teaching-learning, accreditation, and research. Each plan is developed by the Principal, the heads of the various departments, and other teaching staff, for the next five years.

In order to align with the demands of the industry, the institution planned to have more courses in academics. Two more undergraduate programs, B.E in Electronics with specialization in VLSI Design and B.E in Electronics and Telecommunication with specialization in Advanced Communication, will commence their first year of academics in the academic year 2023-24.

To elevate the academic standards further and to encourage research, the institution has planned to start PhD in Information Technology. This will be commencing from the academic year 2023-24. To promote interdisciplinary academics, the institution also established IKS (Indian Knowledge Systems), under which, staff and students were granted internships. The college has teamed up with Mathworks and the institution is now Mathworks Credentialed Campus.

Center of Excellence for Research and Development in the field of Cyber Security in SAKEC has also been established. 17th inter-collegiate Avishkar research convention was conducted in Sakec on 7th December 2022. 25 copyrights were filed, of which, 14 copyrights were registered.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

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.

Shah and Anchor Kutchhi Engineering College is managed by the trust Board and the Governing Body, constituted as per the guidelines of AICTE. The institute is affiliated to University of Mumbai, and follows the rules set by Government of Maharashtra.

The institution has decentralized its operations and has delegated authority at various levels. Principal takes guidance, directions and approvals from the Governing body and the Management Trust Board for various activities of the Institute.

The Principal heads all the academic and administrative activities of the institution by monitoring the overall functioning of all the bodies that fall in the chart.

The Institute has IQAC and other committees working under Principal to strengthen academic quality.

Principal interacts directly with HoDs, Deans, Registrar,

Librarian, Controller of Exams, Heads of various cells, and Student Council for planning the academic calendar and for conduction of activities in the departments or 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.

Every department and cell is granted the freedom to conduct activities under it's umbrella, with Principal's guidance.

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

File Description	Documents
Paste link for additional information	Nil
Link to Organogram of the institution webpage	https://www.sakec.ac.in/institute-organogram/
Upload any additional information	View File

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	View File
Screen shots of user inter faces	View File
Any additional information	View File
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	View File

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 of awareness program Like Yoga session.
2. Availability of councilor to solve psychological problems.
3. Encouragement through reimbursement to scholars for MOOC exams
4. Encouragement through Higher Studies policies for higher qualification improvement. One day off per week is given for staff persuing PhD.
5. Availability of Digital library facility with good subscriptions.
6. Availability of recreational activities, Sports & Gymkhana.
7. Opportunity to conduct/ attend seminar/workshop /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. Fee reimbursment for toppers of class.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

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

31

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

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

6

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	View File
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View File

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

64

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

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 from Head of the Department to the Principal.

2) **Appraisal system for non-teaching staff:** Non-teaching staff performance is evaluated every academic year based on coworker 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	View File

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

Auditors of Shah and Anchor Engineering College conduct the internal audit on a regular basis. The accounts department maintains relevant records of all the account statements. Every year college prepares a budget well in advance in which provision is made for all department requirements 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, building maintenance and future goals. Every department is provided with two lakh rupees which the department utilizes as per departmental 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 and department finance committee. 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 excellent financial health of the college.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

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)

0.615

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

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

The SAKEC has a well-defined 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	View File

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

The IQAC is involved in edging the quality policies for Teaching-Learning, Research and various student activities ,Conducting workshops, FDPs on emerging technologies, Conducting Guest Lectures from Industry/Experts. IQAC monitor and evaluate the teaching & learning processes, with the feedback from the stakeholders. As per IQAC cell guidance currently all the cells have operating manuals.

Based on the academic calendar issued by the University, Institute defines the schedule for the academic year and publishes the academic calendar. IQAC cell of the institute and dean of academics prepare academic calendar. At the beginning of the semester, various activities, like FDP, student development programs, guest lectures, and cultural events are planned. The faculty creates course outcomes (CO) and lesson plan of the concerned course, the faculty maps the CO with the program outcomes (PO) and define levels. Academic auditing will be done by the head of the department..

Usage of smart classrooms in all departments.

IQAC analyzed the feedback received from the students and faculties and continue to implement the smart class room in the campus. Different technology components such as interactive boards, audio/video elements, management system, and mobile computing contribute to a smart classroom, also in synergy with each other. Side by side with these, innovations in pedagogy, regarding content delivery, student engagement, and assessment, also contributes to making a classroom smart. It also provides academic and digital learning. More paid internship is given to students.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

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 believe need for updating knowledge. Action Research event arranged by IQAC cell to measure the effectiveness of the Teaching and Learning process. Institute provides training in soft skill and technical skill 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. IQAC 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. Parent teacher meeting is held once in a semester and parent's feedback is collected. Feedback for Extra & Co-curricular activity is collected, consolidated and analyzed by each department. Feedback is also collected from alumni. The corrective actions are always implemented. Institute has taken facility feedback from staff members.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

<p>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)</p>	<p>A. All of the above</p>
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File Description	Documents
Paste web link of Annual reports of Institution	https://www.sakec.ac.in/annual-reports/
Upload e-copies of the accreditations and certifications	View File
Upload any additional information	View File
Upload details of Quality assurance initiatives of the institution (Data Template)	View File

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

NSS SAKEC organized "Poshan maah Distribution of Nutrition kit to pregnant women in adopted area", in collaboration with Lions and Leo Club of Chembur Icon.

Institute promoted applications from aspiring Women Entrepreneurs with innovative Ideas and Projects for Women entrepreneurship in waste management (WEWP) Conclave 2023.

Institute has organized different sports events for Boys and girls students as Olympus 2023 events.

SAKEC IIC 5.0 Committee in collaboration with E-Cell and Alumni Association conducted an event on Women Entrepreneurship's Day on 8th March, 2023.

Institute celebrated Women's Day on 8th March 2023 which was organized by NSS SAKEC and themed as a session on comprehensive

knowledge on sexuality education.

NSS SAKEC organized a drive for National Girl Child Day on 24th January 2023 to aware he importance of their mothers as well as the girl child.

Research Cell SAKEC and Indian Development Foundation (IDF) collaborated to launch the "Light Of Goodness" project, for women businesses on October 14th, 2022.

SAKEC Research cell in association with Green Pencil Foundation conducted Menstrual Health and Hygiene Awareness program on 18 September 2022.

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	https://sakec-my.sharepoint.com/:b:/g/personal/naac_sakec_onmicrosoft_com/ESLHKVCHC39PtXD_s3dhkwAB7V4pcLWa00fC21SuJ3QPdQ?e=GPSGPd
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	https://sakec-my.sharepoint.com/:b:/g/personal/naac_sakec_onmicrosoft_com/EeDQpNUKKf9IqyUzSIP0bRwBML4j0fpz5oAEqteOga-uVg?e=Ru7Pgy

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

B. Any 3 of the above

File Description	Documents
Geo tagged Photographs	View File
Any other relevant information	No File Uploaded

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

Major solid waste produced on campus is in the form of papers and plastic. To manage it, the college has a paper shredding machine. The concept of a paperless office is implemented in the institute. Another 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 the event "Bottles for change" on 20th October 2022 in that plastic collection drive total 58 kg plastic was collected.

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.

Everyone should segregate the dry waste from wet waste, keep it clean and dispose of it for recycling. Collection initiative by Sampurn(e)arth Environment Solutions Pvt. Ltd. aims to educate citizens about the effective and the right way to dispose of dry waste.

Laboratory Assistants and technicians check and repair damaged electronic instruments. Irreparable instruments are mentioned in the scrap equipment list prepared by each department.

Institute has signed MoU with M/s Click Computers for the disposal of E-Waste.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	View File
Geo tagged photographs of the facilities	View File

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	View File
Any other relevant information	View File

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	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	View File

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

A. Any 4 or all of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	No File Uploaded
Any other relevant information	View File

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	View File
Policy documents and information brochures on the support to be provided	View File
Details of the Software procured for providing the assistance	No File Uploaded
Any other relevant information	View File

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. NSS SAKEC organised " Poshan maah Distribution of Nutrition kit to pregnant women in adopted area" on the occasion of National NSS day, in collaboration with Lions club of

Chembur Icon and Leo Club of Chembur Icon.

2. Department of Electronics & Telecommunication Engineering in Collaboration with MUSE foundation have organized the session on " Climate change" on 14th September 2022 from 10.00 am to 12:00 pm
3. SAKEC celebrated 75th Independence day ,which was organized by NSS SAKEC on 15th August 2022 and was themed as 75th Azadi ka Amrit mahotsav
4. NSS SAKEC organised "Poshan Maah:Tree plantation"on the occasion of National NSS day,in collaboration with the Lions Club of Chembur Icon and Leo Club of Chembur Icon.
5. NSS SAKEC organized an Online Quiz Competition based on Work Ethics and Life achievements of Netaji Subhash Chandra Bose
6. Shah and Anchor Kutchhi Engineering College (SAKEC) celebrated Women's Day themed as a session on comprehensive knowledge on sexuality education.
7. SAKEC Movie club Launch and screening of Movie on environment on 27th July 2022.
8. NSS SAKEC organized a drive for National Girl Child Day on 24th January 2023.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File
Any other relevant information	View File

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 celebrated "Har Ghar Tiranga Rally" on 12th Aug 22 on

the occasion of Azadi ka Amrit Mahotsav.

2. "Poshan Maah: Sanitary Pad Distribution" was organised by NSS SAKEC on the occasion of National NSS day, in collaboration with the Lions Club of Chembur Icon and Leo Club of Chembur Icon.
3. "Mazi Mumbai, Swachh Mumbai" was conducted in which Swachhata Abhiyan was organised by NSS SAKEC.
4. "Paper Crafting and Distribution" event was organised under "Mazi Mumbai, Swachha Mumbai" campaign.
5. NSS SAKEC organised a beach cleaning event under "Mazi Mumbai, Swachh Mumbai" at Juhu Beach.
6. NSS SAKEC organised an online awareness program about Organ Donation clarifying all the myths of organ donation.
7. Yoga Drive was conducted, from 10th Feb to 2nd Mar 23, by NSS SAKEC, spreading awareness about the importance of yoga and healthy life.
8. A blood donation camp associated with Pallavi Blood Bank, was organised on 21st Mar 23 at gymkhana of SAKEC.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	https://sakec-my.sharepoint.com/:b:/g/personal/naac_sakec_onmicrosoft_com/EcpobSa5wtJDrN2lDYNK1qwB-hvT8sJrLuKtTd6rU6UbSQ?e=RHzjfp
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

A. All of the above

students, teachers, administrators
and other staff 4. Annual awareness
programmes on Code of Conduct are
organized

File Description	Documents
Code of ethics policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	View File
Any other relevant information	No File Uploaded

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

SAKEC celebrated 75th Independence day, organized by NSS SAKEC on 15th Aug 2022 and was themed as 75th Azadi ka Amrit Mahotsav.

NSS SAKEC in collaboration with My Green Society organized an international coastal clean-up event in Worli, Mumbai.

NSS SAKEC & SAMBODHI SAKEC organized a "Quiz Competition" on the occasion of Mahatma Gandhi Jayanti. The quiz was about The Life achievements of the Great Mahatma Gandhi.

NSS SAKEC organized an Online "Quiz Competition" on 31st October in Shah & Anchor Kutchhi Engineering College, Mumbai campus itself. On the occasion of "Sardar Vallabhbhai Patel Jayanti" the quiz was conducted.

A Digital Poster making competition was organized by NSS SAKEC on Worlds AIDS Day.

SAKEC celebrated womens day by conducting a session on comprehensive knowledge on sexuality education on 8th Mar 23.

NSS SAKEC organized a Quiz on National Voters Day based on the voting rights and regulations of people of India.

Republic day events including inspirational speeches, Parade were organized.

Mother language day was celebrated in the form of article writing in various languages.

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	View File
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.

1. Title of the Practice Creating an IP landscape for the technical stakeholders.

2. Objective To encourage and provide direction to students and faculties for filing IPR applications.

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

4. The Practice

The IPR Cell conducts a hands-on session on copyright, patent and design filing for faculty and students.

5.Evidence of Success

The faculty and students have inculcated the habit of copyrighting their paper and research work.

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 .

1. Title of the practice:

Reimbursement of college fees to the toppers of FE, SE, TE and BE .

2. Objectives of the Practice: To support student’s education based on their outstanding academic performance. As a social responsibility to felicitate the students who excel in the examination.

3. The Context : It is a reward for academic achievements and offer financial assistance and help .

4. The Practice : Full reimbursement of fees is done for students as an appreciation.

5.Evidence of Success : The students who have received this reward said that this reimbursement has not only enhanced their academic performance but also boosted their confidence.

6.Problems Encountered and Resources Required: As the institute does not receive any grant from government ,it has to manage funds .

File Description	Documents
Best practices in the Institutional website	https://www.sakec.ac.in/others/naac-criteria-documents/
Any other relevant information	https://sakec-my.sharepoint.com/:b:/g/personal/naac_sakec_onmicrosoft_com/EYJmX7rN051DiLe-gMiHWCgBrYWtkOPB2OZi-vhgLt-E5A?e=1LCcjs

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

SAKEC-CyberPeace Centre of Excellence:

The institute in collaboration with CyberPeace Foundation, V4WEB Cybersecurity and Council for Fair Business Practices (CFBP) have launched SAKEC-CyberPeace COE on 14th October 2022. The centre aims to nurture ideas and solutions through research, innovations in Cyber Scape. The COE also has a journal named "International journal on Internet of Governance and Cyber Security" which encourages technical paper writing skills among students, faculties and get their work peer reviewed from experts. The following are notable events conducted by the centre in the academic year 2022-2023.

CCTNS HACKATHON & CYBER CHALLENGE 2023 in collaboration with the National Crime Record Bureau, Ministry of Home Affairs, Govt. of India.

Global#CyberPeaceSummit2023, an integral part of G20 summit, fostering global dialogue on challenges and opportunities in cyberspace.

Research based products namely Linux Admin, Cygiene and HoneyTrack, courage2correct launched in the Global#CyberPeaceSummit2023.

Received research grant of 15 Lakh for Project.

A prize worth \$1,000, Intel certificate and award by the students of Cyber Security Department under prestigious Intel(R) AI Global Impact Festival 2023.

The center has honoured visits of dignitaries from the PMO office & Sun Group &, Israel National Cyber Directorate.

File Description	Documents
Appropriate web in the Institutional website	View File
Any other relevant information	View File

7.3.2 - Plan of action for the next academic year

1. As a part of increasing infrastructure the construction of new hi-tech building in same campus has already been started and will be completed in the next two years.

2. Redevelopment of laboratories will be completed for Electronics and computer science department. They will be well equipped with

modern Hi-Tech equipments. It will be operational in this year itself.

3. Institute has started two new branches Electronics Engineering(VLSI design and technology)and Electronics and communication(Advance Communication and Technology).

New laboratories will be set up for these and recruitment of staff members will also be done.

4.NBA process will be completed for Electronics and Telecommunication department.

5.ISO external audit will be done for all the departments of institute.

6.NEP related sessions will be conducted for staff and students.

7.As autonomy has been given to the institute, syllabus and all other preparations will be done.

8.Industrial visits will be planned for the students.

9.Number of students getting placed and getting internships will be increased