YEARLY STATUS REPORT - 2020-2021

Part A	
Data of the Institution	
1.Name of the Institution	C U Shah Science College
• Name of the Head of the institution	Dr. S P Parekh
• Designation	I/c Principal
• Does the institution function from its own campus?	Yes
• Phone no./Alternate phone no.	07965120924
• Mobile No:	9925809907
• Registered e-mail	principal@cushahsciencecollege.org
• Alternate e-mail	iqaccushah1965@gmail.com
• Address	Near Gujarat Vidyapeeth, Ashram Road
• City/Town	Ahmedabad
• State/UT	Gujarat
• Pin Code	380014
2.Institutional status	
• Type of Institution	Co-education
• Location	Urban
• Financial Status	Grants-in aid

• Name of the Affiliating University	Gujarat University
• Name of the IQAC Coordinator	Dr. P. H Suthar
• Phone No.	07927542997
• Alternate phone No.	7990103027
• Mobile	9427383844
• IQAC e-mail address	iqaccushah1965@gmail.com
• Alternate e-mail address	info@cushahsciencecollege.org
3.Website address (Web link of the AQAR (Previous Academic Year)	http://cushahscencecollege.org/pdf/IQACREPORT_2019-20.pdf
4.Whether Academic Calendar prepared during the year?	Yes
• if yes, whether it is uploaded in the Institutional website Web link:	http://www.cushahsciencecollege.org

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	B	2.09	2008	31/12/2008	01/01/2014

6.Date of Establishment of IQAC	04/08/2008

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
nil	--	--	--	--

8.Whether composition of IQAC as per latest NAAC guidelines	Yes	
• Upload latest notification of formation of IQAC	View File	
9.No. of IQAC meetings held during the year	1	

• Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website?	No
• If No, please upload the minutes of the meeting(s) and Action Taken Report	View File
10.Whether IQAC received funding from any of the funding agency to support its activities during the year?	No
• If yes, mention the amount	

11.Significant contributions made by IQAC during the current year (maximum five bullets)

COVID-19 guidelines must be followed in the campus

All lectures are going to be in online mode.

Arrange the carrier webinar for the final year 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
Follow the GOI and Gov of gujarat regading the Covid-19	necessary taken action on protect over Covid-19 virus
How to operate the MS-teams software (online guideline)	Give the proper guideline to teacher to use the MS-team
Students and teacheres ID required to operate MS -team soft	computer departerment taken proper action on it.
all theory lecture and practical comes on Physical mode to convert online mode	students attendance, lectures

13.Whether the AQAR was placed before statutory body?	No
• Name of the statutory body	

Name	Date of meeting(s)
Nil	Nil

14.Whether institutional data submitted to AISHE

Year	Date of Submission
2020-2021	31/01/2022

15.Multidisciplinary / interdisciplinary

16.Academic bank of credits (ABC):

17.Skill development:

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

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

20.Distance education/online education:

Extended Profile

1.Programme

1.1 1

Number of courses offered by the institution across all programs during the year

File Description	Documents
Data Template	View File

2.Student

2.1 435

Number of students during the year

File Description	Documents
Data Template	View File

2.2 **256**

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 **407**

Number of outgoing/ final year students during the year

File Description	Documents
Data Template	View File

3.Academic

3.1 **39**

Number of full time teachers during the year

File Description	Documents
Data Template	View File

3.2 **65**

Number of Sanctioned posts during the year

Extended Profile

1.Programme

1.1 Number of courses offered by the institution across all programs during the year	1

File Description	Documents
Data Template	View File

2.Student

2.1 Number of students during the year	435

File Description	Documents
Data Template	View File

2.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	256

File Description	Documents
Data Template	View File

2.3 Number of outgoing/ final year students during the year	407

File Description	Documents
Data Template	View File

3.Academic

3.1 Number of full time teachers during the year	39

File Description	Documents
Data Template	View File

3.2 Number of Sanctioned posts during the year	65

File Description	Documents
Data Template	View File

4.Institution	
4.1 Total number of Classrooms and Seminar halls	15
4.2 Total expenditure excluding salary during the year (INR in lakhs)	5.86162
4.3 Total number of computers on campus for academic purposes	6

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

C U SHAH SCIENCE COLLEGE, AHMEDABAD neighbouring GUJARAT VIDYAPEETH, a pillar set by Gandhiji,to support Gandhian principles ; is affiliated to GUJARAT UNIVERSITY and is a GRANT IN AID college. The curriculum set by the GUJARAT UNIVERSITY for various science subjects being taught at UG is implemented by the college. However, in framing the curriculum, some of our professors are actively indulged in the form of members of BOARD OF STUDIES. In the meetings of BOS held time to time, our professors echo the need of UG learning and teaching while framing the curriculum. That well-planned curriculum gets implemented in theory classrooms as well as practicals in laboratories. With the help of the latest teaching aids and a lot of teaching experience, the teaching reaches both micro and macro levels. ORAL QUIZ while introducing curriculum is practiced along with WRITTEN QUIZ tested in written examinations. Involvement of students during classroom SEMINARS makes the learning process more fruitful developing a strong liking for core subjects. The professors participating in

Seminars, Workshops and Conferences boosting students also to do the same since such activities are a part of their curriculum's practice. All the professors do attend necessary trainings like Orientation programs, Refresher courses and Short term courses which keep them updated with the new comings in their respective subjects. Just like our country, our classes are also full of diversity and so in need of a lot of mental therapies when we introduce the curriculum in classes. Such diversity leads to poor performance in examination, shyness in learning practical and dumbness in the classroom. So implementing well-planned curriculum needs psychological practices which is done by the professor with a lot of counselling in classroom sessions as well as preparing journals for practicals. Such practices done vigorously improve students' performance in theory and practical examinations being held twice in a year from Sem-1to Sem- 6. Emphasis on timely submission of Assignments in each paper of each subject aims at touching all corners of the prescribed curriculum which is thoroughly practiced the institution. Written Quiz per paper of respective subjects twice in a semester inspires the students to study the syllabus minutely from all corners. Students are well informed about the minute and major changes in the curriculum introduced by the university. The institution introduces a new Academic Calendar per year in the beginning of the new academic year to implement the theoretical and practical curriculum just to complete it with effective learning. The university informs the college about the changes in the curriculum through it's website which is informed to the students with the help of a library noticeboard and departmental notice-board display. The professors do the same in classrooms and in practical's to avoid any misunderstanding regarding changes in curriculum. The college has strict norms about presence in class and in practical's. Regular attendance gets noted in online classes. Our college has excellent PLACEMENT CELL which proves to be a good bridge between students and Industry. The cell arranges workshops and seminars through which the need of the hour is understood by the students and professors well which brings out suggestions for changes in curriculum at last making it relevant globally.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	www.cushahsciencecollege.org

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

Internal Evaluation (CIE)

Following reforms have been introduced in the mode of continuous internal evaluation:

1) Previous practice of keeping the whole syllabus for the exam has been changed. Now maximum of 60 percent of the total syllabus is kept for exams.

2) Marks of the internal theory tests have been reduced from 45 to 30.

3) Objective-type questions are preferred rather than essay-type descriptive ones.

4) Assignments are introduced and given 35 percent weightage in the total internal marks.

5) Group presentations, weekly tests or quizzes are also emphasized which aim at fostering peer learning and mentoring, as well as building the public speaking skills of students.

6) Literature survey and review writing is strongly encouraged.

7) Introduction of project work to be submitted during practical viva voce.

8) Students are encouraged to participate in regional and state-level seminars and workshops and these presentations or reports may be considered as project work.

9) Due to online classes attendances of all students obtain via MS-Teams.

10) Academic audit was taken through google form each faculty member as well as all activities of the department.

11) Faculty members use conventional and innovative evaluation methods to account for diversity in student needs and abilities, especially difficulty experienced by some to express fluently in English.

12) Evaluation of teaching methodologies is done by students in the form of Feedback which are collected annually and analyzed

File Description	Documents
Upload relevant supporting documents	View File
Link for Additional information	www.cushahsciencecollege.org

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

C. Any 2 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

B.Sc

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)

00

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

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1.2.3.1 - Number of students enrolled in subject related Certificate or Add-on programs during the year

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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

Action indeed is the all medium of expression for ethics. C U. Shah science college has a very energetic and active N.S.S. as well as N.C. C unit which has trained nearly 100 students on how ethics work in life and how very strongly attach them with day-to-day life. How important it is for us to recognize and celebrate our heroes and she-roes that is taught to students through various cultured and empowering activities done by C W D C unit in the college. The earth is what we all have in common so it's the earnest duty of we all to look after the environment without fail that is taught practically by eco-club has continued working. The cultivation of human values alone is education. In strict boundaries of informative syllabi, C U Shah Science College had added, the teaching of human values. With the help of various

activities connected to Vivekananda Kendra being run in the college. The survival of needy people during the corona pandemic was done with a lot of social work by students of C U shah science college. Online teaching with the help of M. S.Teams application was an honest try by the staff of C U Shah Science College to sustain all prescribed curriculum by Gujarat University. Online cultural, debating poetry, essay writing competitions kept students energetic during the tense period of the corona pandemic

File Description	Documents
Any additional information	View File
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

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File Description	Documents
Any additional information	View File
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
Number of courses that include experiential learning through project work/field work/internship (Data Template)	View File

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

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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

D. Any 1 of the above

File Description	Documents
URL for stakeholder feedback report	View File
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	View File
Any additional information(Upload)	View File

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

D. Feedback collected

File Description	Documents
Upload any additional information	View File
URL for feedback report	https://drive.google.com/drive/u/1/folders/1MUUjFF85EDak-ZGfhTH3Vg_QNCtU9bD_

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 sanctioned seats during the year

520

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

434

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

All students have to attend a compulsory Orientation Programme on admission.

The wide range of continuous assessment components that include, Daily Home Assignments, Class Assignments, Seminars and Group Discussions, Additional Assignments, Quizzes, Class Tests, Projects, Internships, Viva-voce examinations and attendance, enable effective assessment of learning levels of students. In addition, teacher-student interactions, reports of Class Committees and Proctorial meetings help in identification of different levels of learners. Faculty members and various Committees regularly review the academic progress and counsel students to improve their performance to ensure their academic growth. Special measures taken to support relatively slow learners are as follows. •

Organizing Extra Classes

• Remedial and Tutorial Classes are held to prepare them for remedial exams

• Assistance from classmates and senior students is arranged

• Providing tutorial assignments

• Providing lectures uploaded on web and extra reading material to improve basic understanding of subject

• Encouraging them to participate in various activities to develop social skills

• The Institute employs varied evaluations to test both Quality and Values.

• It has a continuous evaluation system with different types of assessments spread throughout the semester. Assessment of values is also a continuous process with focus on discipline, conscience, dignity of labour, respect for religion and culture and community participation.

• It implements well-defined models of evaluation with varied types of assessment to effectively evaluate outcomes, both at the course and the program level. Figures below show the models for theory and practical courses.

File Description	Documents
Link for additional Information	www.cushahsciencecollege.org
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
1160	**38**

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

Mentoring is regularly done at the college, although at a more informal level. Some departments do follow a formal approach and assign TY students of each year amongst the faculties. Thus the

mentor: mentee ratio changes department wise from year to year. The students are encouraged to approach their respective mentors for academic, individual as well as career related queries and stresses. They may even approach any other teachers if they wish. eg. The various departments prepare a document assigning Semester V and VI students equally amongst every faculty at the beginning of the semester. The teachers accept the responsibility and take it from there with their assigned students on an informal level. As far as students of semester 1 to 4 are concerned, they generally approach their respective in charge teachers for quarries. The Online (through MS-Teams) induction training program held for all newly admitted first year students by the Principal and all the Heads of Departments to encourage for freely approach their teachers regarding any teaching related task.

File Description	Documents
Upload any additional information	View File
Link for additional information	www.http:\\cushahsciencecollege.org

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

Today, it is essential for the students to learn and master the latest technologies in order to be corporate ready. As a consequence, teachers are combining technology with traditional mode of instruction to engage students in long term learning. College uses Information and Communication Technology (ICT) in education to support, enhance, and optimize the delivery of education.

The following tools are used by the InstituteICT Tools:

1. Projectors- 6projectors are available in different classrooms/labs

2. Desktop and Laptops- Arranged at Computer Lab and Faculty cabins all over the campus.

3. Printers- They are installed at Labs, HOD Cabins and all prominent places.

4. Photocopier machines - Multifunction printers are available at all prominent places in the institute. There are four photostat

machines available in campus.

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

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

7. Seminar Hall- It is digitally equipped with mike, projector, cameras and computer system.

8. Online Classes through Zoom, Google Meet, Microsoft Team, Google Classroom)

9. HackerRank (Online Coding Platform)- inter college competition

11. MOOC Platform (NPTEL, Coursera, SAP, Udemy, Edx etc)

Use of ICT By Faculty

A. PowerPoint presentations- Faculties are encouraged to use power-point presentations in their teaching by using LCD's and projectors. They are also equipped by digital library, online search engines and websites to prepare effective presentations. B. Industry Connect- Seminar and Conference room are digitally equipped where guest lectures, expert talks and various competitions are regularly organized for students. C. Online quiz- Faculties prepare online quiz for students after the completion of each unit with the help of GOOGLE FORMS. D. Video Conferencing- Students are counseled with the help of Zoom / Google meet applications. E. Video lecture- Recording of video lectures is made available to students for long term learning and future referencing

File Description	Documents
Upload any additional information	View File
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	http://www.cushahsciencecollege.org

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

31

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

38

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

0

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

38

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.

Following reforms have been introduced in the mode of continuous internal evaluation: 1) Previous practice of keeping the whole syllabus for the exam has been changed. Now maximum 60 percent of the total syllabus is kept for exams. 2) Marks of internal theory test have been reduced from 45 to 30. 3) Objective type questions are preferred rather than essay type descriptive ones. 4) Assignment are introduced and given 35 percent weightage in the total internal marks. 5) Group presentations, weekly test or quiz are also emphasized which aim at fostering peer learning and mentoring, as well as building public speaking skills of students. 6) Literature survey and review writing is strongly encouraged. 7) Introduction of project work to be submitted during practical viva voce. 8) Students are encouraged to participate in regional and state level seminars and workshops and these presentations or reports may be considered as project work. 9) Due to online classes attendances of all students obtain via MS-Teams. 10) Academic audit was taken through google form each faculty members as well as all activities of department. 11) Faculty members use conventional and innovative evaluation methods to account for diversity in student needs and abilities, especially difficulty experienced by some to express fluently in English. 12) Evaluation of teaching methodologies is done by students in the form of Feedback which are collected annually and analyzed.

File Description	Documents
Any additional information	View File
Link for additional information	https://www.cushahscience.org.

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

The institute has devised an efficient mechanism to deal with examination related grievances which transparent in the pattern and conduction of CIE and rectification of grievances is time bound. The college follows strictly the guidelines and rules issued by the affiliating university while conducting internals and semester-end examinations. At Institute level: At Institute level, an examination committee, comprising of a senior teacher as convener and other teaching and non-teaching staff as members, is constituted to handle the issues regarding evaluation process. The teacher distributes evaluated answer scripts to students, and any clarifications or grievances are addressed by the teacher. The internal marks are displayed on the notice board. If any discrepancy like mistakes in question paper, mark allocation, correction is noticed by the students, the concerned teacher will resolve the discrepancy, and the necessary corrections will be made. If a student is not satisfied with the marks awarded even after resolved by the teacher, then he may represent the same to the HOD concerned. All such representations are taken positively and are reassessed by another teacher if necessary. Students are counseled by the faculty mentor, and remedial classes are conducted for students who have failed in the examinations. Retest for the Internal Assessment are conducted for Students who remain absent for internal exams due to genuine reason. Within a time bound the Internal Assessment marks are entered in the University web portal, by student’s login, students can individually view their performance in the University portal. At University level: If students have grievances related to evaluation of university answer scripts it is intimated to the subject handling faculty and head of the department if necessary, for further action. Students can bring their grievances by applying for the following evaluation procedure: Re-Evaluation: Students can apply for re-evaluation of their answer scripts within a week from the declaration of results if they are not satisfied with their results. The results of re-evaluation will be announced as per the university norms. Challenge Evaluation: If the re-counting/re-evaluation results are not satisfactory, a student can apply for challenge evaluation within a week after the announcement of the

revaluation results. The evaluation process is carried out by two subject experts. Result will be announced before commencement of University Examination and the fees will be refunded to the students if he/she clears the paper. So maximum chances are given to the students to clear the subject. The entire process is maintained transparent and time bound by the university

File Description	Documents
Any additional information	View File
Link for additional information	https://www.cushahscience.org.

2.6 - Student Performance and Learning Outcomes

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

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

Response:

The college has clearly stated learning outcomes of the Programs and Courses. The following mechanism is followed by the institution to communicate the learning outcomes to the teachers and students.

· Hard Copy as well as soft copy of syllabus, reading materials, class notes and Learning Outcomes in the form of references, Question-answers and in quiz forms are provided to the students onto the digital platforms like college website, WhatsApp, telegram, MS teams etc…..

· The importance of the learning outcomes has been communicated to the teachers in every IQAC meeting and College Committee meeting

· The students are also made aware of the same through Tutorial meetings

· Workshops have also been conducted for developing the Programme Educational Objectives and Learning outcomes at college level

The institution is running Under Graduate (B.sc-Grant in Aid)

There are 6 subjects in the college viz. Chemistry, Physics, Botany, Zoology, BioChemistry, Mathamatics

Department of Physics Programme Outcome

? Physics is a branch of science that studies matter and its motion through space and time, along with related concepts such as energy and force. Physics is one of the fundamental sciences because the other natural science deal with systems that seems to obey the law of Physics. According to Physics, the physical laws of matter, energy and the fundamental forces of nature govern the interactions between particles and physical entities (such as plants, molecules, atoms or the subatomic particles).

· Physics deals with a wide variety of systems, certain theories are used by all physicists. Each of these theories were experimentally tested numerous times and found to be an adequate approximation of nature.

· Physics uses mathematics to organize and formulate experimental results and from which new predictions can be made.

· The results from physics experiments are numerical measurements. Technologies based on mathematics, made computational physics as active area of research. Programme Specific Outcome · The theory of classical mechanics accurately describes the motion of objects, provided they are much larger than atoms and moving at much less than the speed of light.

· To provide the detail study of atom and the behavior of atom in various states. Course Outcomes

· The students will demonstrate a scientific knowledge of the core physics principles in Mechanics, Electromagnetism, Modern Physics and Optics

· The student will determine the appropriate level of technology for use in experimental design and implementation, analysis of experimental data and numerical and mathematical methods in problem solutions

· The students will demonstrate a purposeful knowledge of scientific literature and ethical issues related to physics

· The students will effectively communicate their knowledge of physics from basic concepts to specific detailed presentations through a variety of oral, written and computational modalities

· To acquire the basic knowledge of mechanics, properties of matter and gravitation

· Learn motion of bodies and sound waves

· To inspire interest for the knowledge of concepts in physical and geometrical physics

Department of Chemistry Programme Outcome

· Students will demonstrate an understanding of major concepts in all disciplines of chemistry

· Students will employ critical thinking and the scientific method to design, carryout, record and analyse the results of chemical experiments and get an awareness of the impact of chemistry on the environment, society and cultures outside the specific community. Programme Specific Outcome

· The ability to explain chemical nomenclature, structure, reactivity and function in their specific field of chemistry.

· The design and execution of the experiment should demonstrate an understanding of good laboratory and the proper handling of chemical waste streams and also explain how the applications of Chemistry relates to the real world. Course Outcomes

· Students will gain an understanding of methods of analysis related to chemical analysis goals such as detection of elements.

· Enable the students to get understand the laws of thermodynamics and the Computer C Programming.

· After completing this course, students must have a basic knowledge of textile chemistry for an understanding of the chemical structure and properties of textile fibers and the properties of textile percipients and dyes.

· To understand the principles of radio activity

· To study the magnetic properties of molecules, chemical kinetics and photo chemistry.

· To enable the students to learn about classification of polymers- methods of preparation of polymers, different types of polymerization, molecular weight of polymers.

· Students to learn about electro chemistry. Department of Botany Programme Outcome To inculcate in students the scientific study of plants which in learn is used in many aspects of human life. Plants being necessary for supporting all life forms on earth, either directly or indirectly. Its study helps in better understanding of our selves at the cellular and genetic level. Course Outcomes

? Students will be able to define and explain major concept in the biomolecules like carbohydrates, proteins, etc...

? It will helps the student to use instruments in proper and correct way for measuring pH, conductance, potential etc..

? It will enable the students to explain and apply the scientific method including designing and conducting experiments and testing hypotheses.

? Students will be able to communicate knowledge of chemistry in oral and written for.

Department of Biology (Botany &Zoology) Programme Outcome

To understand the nature and basic concepts of Zoology. To understand the analysis of relationship among animals, plants, microbes and environment. It provides insight into how “Life” works and consequently, how we work. The concept of students is cleared in the laboratory of Bio- Science.

Course Outcomes

? Students will be able to demonstrate the ability to read, understand and critically review scientific information

? Students will be able to demonstrate ethical conduct in scientific activitie.

? Students will be able to recognize the relationship between structure and function at all levels: molecular, cellular and organism.

Department of Mathematics Course Outcomes

· Demonstrate basic manipulative skills in algebra, geometry, trigonometry and beginning calculus.

· Apply the underlying unifying structures of mathematics and the relationships among them.

· Demonstrate proficiency in writing proofs.

· Investigate and apply mathematics problems and solutions in a variety of contexts related to science, technology, business and industry and illustrate these solutions using symbolic, numeric or graphical methods.

· Students can understand the foundation of Mathematics.

· They are able to perform basic computation in higher Mathematics.

· Students are able to develop problem solving skills

· They are able to communicate Mathematical ideas with others.

· They can enhance the quality of analysis and research in different mathematical fields. Operations research can develop management quality in different industries and factories.

Department of Biochemistry Course Outcomes

Biochemistry is a major growth industry worldwide. Every day new exciting developments take place in various fields like biotechnology, genetic engineering microbiology, medicine, agriculture, horticulture and forensic science. We offer best educational environment and relevant skills to meet the recent opportunities of the developing world.

To promote quality in Biochemistry education and training in the North Gujarat region of the state.

To create awareness about the benefits & perceived risks of Biochemistry intervention in (i) sustainable development and utilization of nature recourses (ii) Human animals, plant health and (iii) environmental protection.

To assist students to fashion their career in the field of

Biochemistry.

After completing B.Sc. students can go for higher studies so as to find themselves placed in :

- **Pharmaceuticals firms**
- **Public and Private R & D centers**
- **Agriculture & Fertilizers firms**
- **Forensic Science**
- **Environmental Science**
- **Medicine**
- **Food Technology**
- **Bio-informatics Depts. Various Institute/Firms eg. IITs, CCMB, Wipro etc.**

DEPARTMENTAL ACTIVITIES

- **Poster Presentation**
- **Paper Presentation**
- **Quiz Competition**
- **Students Corner**
- **Teachers Day Celebration**
- **Project Work**
- **Study Tour**

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	https://www.cushahscience.org.
Upload COs for all courses (exemplars from Glossary)	View File

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

The program outcomes and Program Specific outcomes are assessed with the help of course outcomes of the relevant courses through direct and indirect methods. Direct methods are provided through direct examinations or observations of student knowledge or skills against measurable course outcomes. The knowledge and skills described by the course outcomes are mapped to specific problems on University Examination, internal exams and home assignments. Finally, program outcomes are assessed and Program Assessment Committee concludes the PO attainment level. At the end of each semester, the university conducts examinations based on the result

published by university the course outcomes are measured. Assignments are given at the end of each module. The assignments are provided to students and they refer the text books and good reference books to find out the answers and understand the expected outcome of the given problem. Three internal tests are conducted per semester for the following purposes: To ensure that students have achieved desired level of competencies at module level. To evaluate, whether corresponding COs are achieved or not. According to the performance of the student in answering each question, mapping is carried out with the respective COs for assessing the attainment level of the specific CO of the subject.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	https://www.cushahscience.org.

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

405

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/drive/u/1/search?q=report

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://www.cushahscience.org

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)

00

File Description	Documents
Any additional information	View File
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 departments having Research projects funded by government and non government agencies during the year

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

00

File Description	Documents
List of research projects and funding details (Data Template)	View File
Any additional information	View File
Supporting document from Funding Agency	View File
Paste link to funding agency website	http://www.cushahsciencecollege.org

3.1.3 - Number of Seminars/conferences/workshops conducted by the institution during the year

3.1.3.1 - Total number of Seminars/conferences/workshops conducted by the institution during the year

00

File Description	Documents
Report of the event	View File
Any additional information	View File
List of workshops/seminars during last 5 years (Data Template)	View File

3.2 - Research Publications and Awards

3.2.1 - Number of papers published per teacher in the Journals notified on UGC website during the year

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

1

File Description	Documents
Any additional information	View File
List of research papers by title, author, department, name and year of publication (Data Template)	View File

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

3.2.2.1 - Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings during the year

1

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

3.3 - Extension Activities

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

The pandemic of Covid-19 situation mostly affected the extension activities throughout the year. Therefore, this year we have done very less extension activities. Our NSS unit made the ayurvedic

kava and distribution it under the AMC health guideline in the month of November and December.

File Description	Documents
Paste link for additional information	https://www.cushahsciencecollege.org/
Upload any additional information	View File

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

3.3.2.1 - Total number of awards and recognition received for extension activities from Government/ government recognized bodies during the year

00

File Description	Documents
Any additional information	View File
Number of awards for extension activities in last 5 year(Data Template)	View File
e-copy of the award letters	View File

3.3.3 - 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

3.3.3.1 - 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

2

File Description	Documents
Reports of the event organized	View File
Any additional information	View File
Number of extension and outreach Programmes conducted with industry, community etc for the last year (Data Template)	View File

3.3.4 - Number of students participating in extension activities at 3.3.3. above during the year

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

00

File Description	Documents
Report of the event	View File
Any additional information	View File
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	View File

3.4 - Collaboration

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

00

File Description	Documents
e-copies of linkage related Document	View File
Details of linkages with institutions/industries for internship (Data Template)	View File
Any additional information	View File

3.4.2 - Number of functional MoUs with national and international institutions, universities, industries, corporate houses etc. during the year

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

00

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	View File
Any additional information	View File
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.

The college has adequate physical and academic facilities required as per University Grant Commission guidelines to run the different programs. The college campus area is around 1.03acres, on which building construction is 45000.00sq. fts. The various departments in Science streams are located in the separate floor. The Classrooms, Laboratories and Seminar Halls are well equipped along with computing system and Internet facility. Besides the building, the college has spacious playground for sports activities. The college has cultivated an atmosphere providing the importance to Extra-Curricular and support services organized by departments of National Service Scheme and National Cadet Cops. The College has a lake for water storage under rain water harvesting scheme. The college campus is maintained with cleanly and neatly atmosphere. The institute is enriched with well developed physical as well as academic infrastructures. It has specious classrooms, smart-multimedia class rooms, well-equipped science laboratories, Digital English Language Laboratory, prosperous library, botanical garden and parking facilities and other amenities. · Well-furnished 15 classrooms.

- **Each Department of college in the campus has independent staff rooms, lecture rooms and laboratories with well stocked library resource.**
- **Well equipped laboratories and class rooms with LCD and OHP facility.**
- **Separate computer – Dell/SCOPE laboratory.**
- **Well developed library with various reference books/ journals, different regional news papers and top news papers.**

- Lift facility for laboratories building.
- Whole College is under CCTV surveillance.
- State transport (ST) bus, AMTS bus and railway concession are granted to the regular students as per government rules and regulations.
- Accident insurance to each students of college from state government is availed.
- NAMO Wi-Fi – internet facility is available.
- Primary Health Care is available in chemistry department.
- The buildings are secured with fire extinguishers.
- Toilet and cold drinking water facility is available.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.cushahsciencecollege.org/

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

SPORTS

The college teams of Football, Basketball, Volleyball and Cricket participate in various local and national level tournaments. The sports committee also invites colleges and clubs across Gujarat like…

SPORTS MEET

A healthy body houses a healthy mind. To promote student interest in games and sports, many sports activities are conducted periodically. The college provides sporting facilities to students for cricket, volleyball, table tennis and many other games and sports. An annual sports fest is also conducted by the college where various sporting competitions are conducted. This develops a healthy competitive spirit among the students and foster a feeling of cooperation among students of various departments as well.

Study and sports are two linked components of our learning process and will always be important for an individual. A healthy mind can exist only in a healthy body. It is rightly said that a healthy nation can be built if the citizens are physically fit. The mental

pressure and tension arising out of the fast modern life can only be released in the playground and therefore, healthy diet and fitness have gained a new status in today's world.

CULTURAL ACTIVITY CLUB

All colleges affiliated to the Gujarat University are divided in the five zones. C.U.Shah Science College falls in the "Ellisbridge North Zone". Usually youth welfare department organizes zonal youth festival by the end of the September every year. Cultural committee organizes different events and competitions prior this youth festival. Viz. music, dance, literary events, theatre, fine arts etc. Winner students of the college in each event represents college in the respective event. Winner at zonal level compete at inter zonal level.

College has won 18 prizes so far at zonal level and a prize at inter zonal level.

In the second term, committee organizes cultural festival that comprises events like singing, instrument playing, group and solo dance, skit, one act play, mime, poetry recitation and poetry completion, wall painting etc.

National Independence Day and Republic Day are celebrated in the Institute by unfurling the national flag followed by a guard of honor of the Chief Guest by NCC students, an impressive march past of students of all faculties on the beats of the students' band and organization of athletic events. The best marching contingent is adjudged by a panel of army veterans

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://www.cushahsciencecollege.org

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

6

4.1.3.1 - Number of classrooms and seminar halls with ICT facilities

6

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://www.cushahsciencecollege.org
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)

00

File Description	Documents
Upload any additional information	View File
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)

Library Maintenance Library day to day activities are managed by the Librarian and library peon and overseen by the library committee. Library follows the Government norms to identify worn-out books, and stock verification of the books is also carried out on annually. Students are given library cards to borrow books and a register is maintained to assess the footfall at the library. still we have not use the integrated library management system due to limited funds.

File Description	Documents
Upload any additional information	View File
Paste link for Additional Information	https://www.cushahsciencecollege.org/facility/

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

E. None 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)	View File

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)

00

File Description	Documents
Any additional information	View File
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

00

File Description	Documents
Any additional information	View File
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 college has well developed system for provinding IT facilities –

1. There are 6-rooms and seminar/lecture hall/conference halls equipped with ICT facilities.

2. The hardware and software purchase , maintenace , Internet, Wi-fi, networking is done through e-tendering.

3. College website is monitored and updated from time to time by the IQAC .

4. The campus of the college is Wi-fi

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.cushahsciencecollege.org/

4.3.2 - Number of Computers

18

File Description	Documents
Upload any additional information	View File
Student – computer ratio	View File

4.3.3 - Bandwidth of internet connection in the Institution

A. ? 50MBPS

File Description	Documents
Upload any additional Information	View File
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)

0.96

File Description	Documents
Upload any additional information	View File
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.

Since its inception in 1965, C. U. Shah Science College is ably managed by the C U Ronak Foundation providing the capital expenditure necessary to run all academic, administrative, and other activities. There is a Building and Infrastructure Committee that coordinates the repair and maintenance needs from time to time. Maintenance of the college infrastructure is undertaken as follows: 1. Routine Maintenance: It includes the cleaning of the entire college campus and other infrastructure facilities. Routine maintenance like sweeping off the campus classrooms, staff rooms, office, computer lab, libraries, etc. is carried out by the institute-appointed staff and temporary staff hired on a contract basis. The work is supervised by the Office superintendent. 2.Building Maintenance: It involves painting and repair work of college buildings, plumbing work, etc. Recently C. U. Ronak Foundation has spent some rupees on the up-gradation of physical infrastructure without changing its external physical structure.

3. Electrical Maintenance: The institute has obtained a dedicated power line from Torrent Power Limited (TPL), Ahmedabad. The major faults are resolved by the TPL, however, routine servicing, repairing, and replacement of electrical accessories and installations in the campus are carried out by the outsource Electrician (staff). 4. Repair works: This includes the repairs of the furniture of the auditorium, classrooms, labs, library, etc. by external agencies provided by AES Institute's equipment like air conditioners, CCTV, water coolers, and RO systems are serviced regularly under annual maintenance contracts. 5. Library Maintenance Library day-to-day activities are managed by the Librarian and library peon and overseen by the library committee. Library follows the Government norms to identify worn out books, and stock verification of the books is also carried out annually. Students are given library cards to borrow books and a register is maintained to assess the footfall at the library. 6. Laboratory Maintenance The Laboratory assistants(s) and Faculty in charge of respective laboratories are responsible for the upkeep of equipment. The equipment stock in the laboratory is maintained and audited. The obsolete equipment is identified as per Government norms. 7. Computer Maintenance The maintenance for all computers is given on yearly basis after inviting quotations and scrutiny. Under the AMC, the servers and desktop systems are checked on a monthly basis and the hardware up-gradation for network equipment like antivirus, access points, and switches are done on a need basis. 8. Gas Maintenance The laboratory gas connections are provided by Adani Gas Limited. They monitor the supply and leakage of gas on regular basis. A Gas mechanic (permanent staff) is appointed for the gas maintenance. 9. Utilization of Common facilities The HoD and faculty can avail of the common facilities such as the Auditorium for guest lectures and seminars, some common laboratories for workshops, etc. with prior intimation to the Office Superintendent.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.cushahsciencecollege.org/

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

433

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	View File
Upload any additional information	View File
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

433

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

D. 1 of the above

File Description	Documents
Link to institutional website	http://www.cushahsciencecollege.org
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

00

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

00

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 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

E. None 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

31

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	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

433

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

00

File Description	Documents
Upload supporting data for the same	View File
Any additional information	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.

0

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)

The students' council/Union is an essential part of the Institute functioning. The Institute believes in the dynamic participation of the students in various academic, curricular, extracurricular and other day to day activities so as to prepare them for leadership roles, team work, organization and execution of events. The Students council is headed by the Principal and senior faculty members and includes one General Secretary, one Cultural secretary, One Ladies' representative, Class representatives and some co-opted members.

Selection Procedure: At the beginning of the year, the Principal and member faculties hold a meeting with all the topper students of semesters I, III and V. The General Secretary is selected from the Sem V purely on merit (of Sem IV), interest and willingness, irrespective of the gender or subject. Next, the cultural secretary is chosen and finally, a girl student is selected as the Ladies' representative. All other student representatives from the union team.

Student's council arranges a talent hunt where all students from semester 1 to 6 are encouraged to participate and showcase their talent in music, dance, drama, literary activities, fine arts, cooking competition and personality contests. Many of the student council members and other volunteers are selected to represent the college at the SAPTDHARA cultural activities of Knowledge Consortium of Gujarat.

File Description	Documents
Paste link for additional information	http://www.cushahsciencecollege.org
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

0

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 Alumni Association was established on 30th June 2006, Currently, the association comprises 260life members. The students who have completed UG, PG or Ph. D. from the college and past and present faculty members are eligible to register as members of this alumni association. contributes significantly to the development of the Institution directly or indirectly through financial or other means. It not only provides a platform for alumni to maintain their link with their Alma mater, but strives to promote education and learning at the institute. As per the UGC guidelines, the IQAC of the college comprises of at least one member from the Alumni association. This way, the alumni can contribute in various decision making processes of the Institute.

The college Alumni supports philanthropic activities like funding to deserving and needy students for their studies, organizing workshops, lectures and symposia. Not only financially but alumni members enthusiastically participate in flag hoisting, talent programme and other celebrations at the institute.

Thus, the active involvement of the Alumni provides a platform for sharing their work, technical knowledge and experience which has proved highly essential in the holistic development of the students, reflecting the core objective of the alumni association. The leading members of the Alumni Association have regular interaction with the Principal, the management, and the staff members regarding the overall development of the college.

File Description	Documents
Paste link for additional information	http://www.cushahsciencecollege.org
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	View File

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

C U Shah Science College is co-educational institution governed by the C U Ronak foundation. The Committee is guided by the policies formulated by the C U Ronak foundation Education Commission, the policy making body for all colleges under this.

The College functions in compliance with the directions given by UGC, MHRD, Government of Gujarat, and Gujarat University to which it is affiliated.

The Institution, inspired by its vision of “integrated development of urban & rural students and society” charts out its perspective plan for every years and effectively implements it. The College located in an urban setup has produced thousands of first-generation graduates.

- **VISION**
- **To motivate and mould undergraduates of science with a sense of commitment and competence in the era of Globalisation, Liberalisation and Privatisation.**

- **MISSION STATEMENTS**

- **Education based on ideal combination of values and needs •Promotion of Entrepreneurship and Personality Development •Cultivation of skill development and sense of initiatives •Adoption of healthier practices conducive to morals, values and ethics of education**

GOALS AND OBJECTIVES

- **To achieve academic excellence.**
- **To compete them at national and international level in all areas of life.**
- **To develop leadership qualities.**
- **To develop all round personalities of the students.**
- **To provide orientation to students towards research.**
- **To promote the faculty towards quality research and**

examination.

File Description	Documents
Paste link for additional information	https/www.cushahsciencecollege.org
Upload any additional information	View File

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

The College promotes participative management. Ideas pertaining to academic goals, organizational progression and better campus life are collected from all stakeholders to promote efficient functioning of the College. The staff and other stakeholders help in infusing a positive attitude that leads to increased efficiency, improved communication, heightened morale, motivation and job satisfaction. Believing in decentralization, the Management takes policy decisions, finance, infrastructure etc. with the help of members of the College Development Committee. CDC discusses matters related to teaching and administrative staff and decisions are taken at these levels are implemented e.g. the planning of Multidisciplinary International Conference and its implementation.

Believing in democratic values, the institution has decentralized and participative management. The fruition of this was channelized in a multi-disciplinary international conference.

Objectives:

- • To bring together contributions from all traditional and non-traditional fields of humanities, social science, commerce, science and technology.
- • To advance human self-understanding and communication.
- • To Forster multicultural and international conversation concerning the human issues.

Strategy:

Since it was a gigantic activity including disciplinary, multidisciplinary and post disciplinary fraternity, following strategy was unanimously decided.

Approval from Parent Body:

Normally all the major decisions are taken by the parent body. The Principal formally put this proposal in the monthly meeting of the executive council which was readily sanctioned.

File Description	Documents
Paste link for additional information	http://www.cushah
Upload any additional information	View File

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

Institutional Strategic Goals

1. Efficient Teaching erudition procedure

2. Effective Leadership and Participative management

3. Constant Internal Quality Assurance System

4. Ensuring effective governance

5. Student’s Overall Development through Participation

6. Employees Advancement & Welfare

7. Escalating Placements

8. Proper Discipline

9. Women/Student/Faculty Grievance

-

10. Financial Planning & Management

11. Institute – Industry Interaction

12. Encouragement of Budding Entrepreneurs

13. Alumni Interaction and Outreach activities

14. Mounting Physical Infrastructure

- Efficient Teaching Erudition procedure

- Academic planning and preparation of Academic Calendar
- Preparation of teaching plan as per OBE
- Preparation of Lesson Plan based on CO & PO mapping
- Conduct training based on current demand analysis
- Constant assessment to measure outcomes
- Use of more practical methods of teaching
- Use of e- learning resources
- Promote research culture &facilities
- Provide mentoring and individual support
- Follow a transparent feedback system
- Performance enhancement through workshops and seminars.
- Implementation of best practices for students
- Evaluation parameters and benchmarking

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	http://www.cushahsciececollge.org
Upload any additional information	View File

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.

C U Shah Science College is administered by the C U Ronak Foundation which has an exclusive Commission for Higher Education. The Higher Education Commission formulated Higher Education to be followed by all colleges under the, Gujarat University and Government of Gujarat and HEI . Based on the need, and according to the policy of Higher Education, Guidelines and Procedures are formulated by the College and get approval from the Higher Education Commission through the Board of Management.

· The overall planning and development of the institution is done by the Board of Management under the President ship of the C U Ronak foundation and locally executed under the directions of the management ,

· The Principal is the academic head, ensuring the proper conduct of all the academic, research and extension activities.

· The Statutory Bodies are constituted and meetings are conducted as per the UGC, MHRD, State Government and University guidelines.

· The Non-statutory Bodies are constituted by the Board of Management to complement the functions of the Statutory Bodies.

· There are Committes, Cells and Associations focussing on specific tasks and roles in the College.

· The executive leadership is shared with the Principal, the Controller of Examinations, IQAC Co-ordinator and all the Heads of the Departments.

File Description	Documents
Paste link for additional information	http://www.cushahsciececollge.org
Link to Organogram of the Institution webpage	http://www.cushahsciececollge.org
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

E. None of the above

File Description	Documents
ERP (Enterprise Resource Planning)Document	View File
Screen shots of user interfaces	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

For Teaching Staff

Ø List the support given for faculty career advancement/ lifelong learning:

Ø Special Study leave to purpose higher studies.

Ø Sabbatical leave (OD) for attending examination, FDP, National/ International conference.

Ø List of major welfare facilities given to the facility and their family members:

Ø Special Transport is arranged during festival season to the native place.

Ø Medical Leave in case of hospitalization for more than 3 days.

Ø Maternity leave for 6 months as per government of Gujarat leave rule for lady teaching, nonteaching staff members.

Ø On any medical need, hospital facility is arranged.

Ø Periodical heath check-up is conducted by a team of doctors.

Ø Staff member sports (indoor game, outdoor games) are conducted.

Ø Motivation talks from the experts are conducted.

Ø General Amenities:

Non-Teaching

Ø Incentives / Awards

Ø Marriage gift and marriage leave with pay for 7 days.

Ø List of major Welfare facilities given to the facility and their family members:

Ø Provident Fund contribution accounting to 12 is subscribed to all the staff members right from the day of joining.

Ø Special Transport is arranged during festival season to the native place.

Ø All the staff are included Group Insurance Scheme.

Ø Free uniform is provided.

Ø List the measure taken for faculty work life balance:

File Description	Documents
Paste link for additional information	http://www.cushahsciececollge.org
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

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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

2

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	View File
Reports of Academic Staff College or similar centers	View File
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

2

File Description	Documents
IQAC report summary	View File
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	View File
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

For Teaching Staff

Ø List the support given for faculty career advancement/ lifelong learning:

Ø Special Study leave to purpose higher studies.

Ø Sabbatical leave (OD) for attending examination, FDP, National/ International conference.

Ø List of major welfare facilities given to the facility and their family members:

Ø Special Transport is arranged during festival season to the native place.

Ø Medical Leave in case of hospitalization for more than 3 days.

Ø Maternity leave for 6 months as per government of Gujarat leave rule for lady teaching, nonteaching staff members.

Ø List the measure taken for faculty work life balance:

Ø On emergency, transport facility arranged.

Ø On any medical need, hospital facility is arranged.

Ø Periodical heath check-up is conducted by a team of doctors.

Ø Staff member sports (indoor game, outdoor games) are conducted.

Ø Motivation talks from the experts are conducted.

Ø General Amenities:

Non-Teaching

Ø Incentives / Awards

Ø Marriage gift and marriage leave with pay for 7 days.

Ø List of major Welfare facilities given to the facility and their family members:

Ø All the staff are included Group Insurance Scheme.

Ø Free uniform is provided.

Ø Medical Leave in case of hospitalization for more than 3 days.

Ø List the measure taken for faculty work life balance:

File Description	Documents
Paste link for additional information	http:\\www.cushahsciencecollege.org.
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

The management monitors the funds by two types of audits internal audits and statutory audits. The internal auditor audits the income and expenditure. The statutory auditor is responsible for final statement of expenditure and utilization certificates. The

internal audit takes place twice in a year the final audit is completed at the end of the financial year. A recognized chartered accountant firm is appointed for the audits. Its audited statement is reviewed by the management and sent back to the Institute with remarks, if any.

The last audit was done in Dec-2020. There were no audit objections.

File Description	Documents
Paste link for additional information	http://www.cushahsciencecollege.org
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)

00

File Description	Documents
Annual statements of accounts	View File
Any additional information	View File
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

Response:- Sources of funds are as follows:

1.Fees: Fees charged as per the university and government norms from students

2.Salary Grant: The College receives salary grant from the State Government. For this, we prepare and send an annual budget of the estimated salary grant required to the state government. This grant includes salaries of the Full Time Permanent teachers and nonteaching staff.

3. UGC Grants: Our College is under 2F and 12B as per UGC Act and Permanent Affiliation of the University. Sowe receive grants from the UGC for the development and maintenance of Infrastructure, upgrade of the Learning Resources and Research (including grants for Minor and Major Research Projects).

Our resource mobilization policy and procedures are as follows:

1. The institution set up a UGC Committees per the directions of the UGC given in the XII Plan

. 2. The UGC Committee, in close coordination with the CDC and the IQAC, monitors the mobilization of funds and makes sure that the funds are spent for the purpose for which they have been allocated.

3.The College Development Committee takes a review of the mobilization of funds and the utilization of these sources periodically in their meetings.

4.The time-table committee looks after the proper utilization of classrooms and laboratories.

5.The Library Advisory Committee takes care that the resources in library are utilized optimally.

6.Our Botanical garden is maintained by department of Botany.

9.Campus cleanness and its utilization is monitored by theCommittee.

9. To ensure the optimum utilization of resources, the Principal issues directions

File Description	Documents
Paste link for additional information	http://www.cushahsciececollge.org
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

For continuous evaluation of institutional overall performance, assessment and to accredit the quality, up-gradation of institutions at national level, the National Assessment and Accreditation Council (NAAC), Bangalore proposes a continuous monitoring system by inserting institute-level Internal Quality Assurance Cell (IQAC). This is post-accreditation quality sustenance measurement.

IQAC continuously observe enhancement of the quality of Institute at teaching, placement, extracurricular activity, research area involvement of faculties and students. Every year IQAC receives report of progress in the institute in every aspects. These reports are sent to the NAAC in the form of AQAR. The role of IQAC in the institute is to establish system of improvement and performance measurement.

To keep maintaining the quality of the institute the IQAC provide vital role in the overall development of the institute and to stand in the competing era of education. Furnished with Co-opt members, IQAC of the institute always provide latest and quality guidance to the institution.

Now a day UGC has set new role of IQAC by monitoring Performance Based Appraisal System for career advancement of faculties in the institute.IQAC is a facilitative and participative voluntary cell formed by the institution under guideline of NAAC. The IQAC has strong interventionist strategies to remove deficiencies and enhance quality in the institute.

File Description	Documents
Paste link for additional information	http://www.cushahsciencecollege.org
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

Basic Functions of IQAC are as follows:

OBJECTIVES AND FUNCTIONAL BASIS OF INTERNAL QUALITY ASSURANCE CELL (IQAC)

- National Action Plan Prepared by NAAC.
- To enhance quality of teaching and continuous process of progression and improvement.
- Efficient progressive performance of Academic, Administrative and financial tasks.
- Affordability of academic programs for various sections of society.
- Adoption of new and innovative courses, programs and activities to increase the potential of the society.
- Optimization and Integration of modern methods of teaching and learning.
- Adequacy in maintenance and proper allocation of support structure and services.
- Networking to other Institutes in India and Abroad.
- Improvement in services like Library, Computer centre, Estate, Student welfare, administration, examinations and planning.
- To find limitations and strengths.
- Ensuring the effective functioning of all the committees of the institute.
- Right balance between health and growth of the Institute.

File Description	Documents
Paste link for additional information	www.cushahsciencecollege.org
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)

D. Any 1 of the above

File Description	Documents
Paste web link of Annual reports of Institution	www.cushahsciencecollege.org
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

Measures initiated by the institution for the promotion of gender equity during the last five years:

? NCC andNSS unit is started exclusively to encourage the girl students and the unit is successfully conducting various activities to serve the society.

? The health centre is provided on the campus with a qualified physician with a separate medical room.

? Beti Bachao, Beti Padhao Jan Aandolan Rally, Celebrations of International Women’s Day

? Yoga Sessions

? Rakhi Making Competition

? Seminar on POSCO (Protection of Children from Sexual Offences) ACT to create awareness about Child Protection Policy that ensures a safe environment.

? The institute has a policy of appreciating faculty without gender bias. Women faculty are nominated, based on their ability, as heads of the departments and conveners of various committees and discharging their duties efficiently

File Description	Documents
Annual gender sensitization action plan	https://drive.google.com/drive/u/1/search?q=type:document
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	www.cushahscienccollege.org

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

D. Any 1 of the above

File Description	Documents
Geo tagged Photographs	View File
Any other relevant information	View File

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

Solid Waste Management College has a place on its campus where the solid waste materials are disposed of.

It is to notice that in the state of Gujaratkeeping a particular place for dumping solid waste is in its culture. Therefore, every house has its own Solid waste management system. This system is called 'Ghurwa'. It is to be noticed that there is a flagship program of the state government that comprises the concept of solid waste management. The college also manages its solid waste management system, keeping this in view. However, there does not exist more waste from college.

Liquid Waste Management- The wastewater is carried out through the pipeline. This system is made by the Public Welfare Department of the state government. Biomedical Waste Management- There is no biomedical waste management system in the college.

E-waste Management- There is no e-waste management system in the college.

Waste recycling system- There is no system of Waste recycling in the college. However, there is rain water harvesting system in the college. The e-medical Waste Management- There is no e-medical waste management system in the college.

Hazardous chemicals and radioactive waste management- There is no Hazardous chemicals and radioactive waste management system.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
Geo tagged photographs of the facilities	www.cushahsciececollege.org
Any other relevant information	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

E. None 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:

E. None 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 with trees and plants**

File Description	Documents
Geo tagged photos / videos of the facilities	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

E. None 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	View File
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

E. None 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	View File
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).

This year (pandamic of Covide-19) , our institute has followed the strict guideline provided by the Government of Gujarat and Gujarat university. so college couldn't arrange any physical activity for cultural, regional, and linguistic. But college staff have beenarranged some online activities for students like motivational lectures, covid-19guidelines online practicals , awareness in the society,

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

The institute conducted awareness programs on the ban on plastics, cleanliness, Swachh Bharat, etc. involving students. The college establishes policies that reflect core values. Code of conduct is prepared for students and staff and everyone should obey the conduct rules.

The affiliating University curriculum is framed with mandatory courses like Professional ethics and human values, Constitution of India, Essence of Indian Traditional Knowledge, as a small step to inculcate constitutional obligations among the students. Major Initiative during last five years

Vigilance Awareness Week: 'Integrity - A way of Life ‘To spread awareness regarding sanitation, living standards of life, and knowing one's personality.

A separate NSS unit is started exclusively to encourage the students and the unit is successfully conducting activities to serve the society.

Beti Bachao, Beti Padhao companion

Guest lectures and workshops are arranged by eminent personalities to deliver lectures on ethics, values, duties, and responsibilities and on saving the environment. Ethical Values, rights, duties, and responsibilities of citizens are some of the topics that are enlisted in Elocution, debates, and class presentation.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	View File
Any other relevant information	View File

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff 4. Annual awareness programmes on Code of Conduct are organized

D. Any 1 of the above

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	View File

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

C U Shah Science College is one of the leading centers of excellence in Ahmedabad. Our college celebrates National and International days enthusiastically every year.

Republic day is celebrated every year on 26th January in the college with great enthusiasm and pride.

Independence Day is also celebrated on 15th August in the college with great enthusiasm. Besides these two national days a number of other national and international days are also celebrated in our institution so that students get knowledge about the great personalities in our political, social, cultural and scientific history such as Mahatma Gandhi, Sardar Vallabhbhai Patel etc.

International Women day is also celebrated in our college on 8th March every year.. The day is celebrated under auspices of women cell (CWDC) of the college. International Yoga day is also celebrated on 21st June every year in the college.

The day aims to raise awareness of many benefits of practicing yoga. It is celebrated to spread awareness about importance and effects of yoga on the health of the people. Teachers day is also celebrated on 5th September every year to celebrate the birth anniversary of Dr. Sarvepalli Radhakrishnan.

The common birthday of Mahatma Gandhi and Lal Bahadur Shastri on 2nd October is commemorated as Swachhta Diwas.The birth anniversary of Sardar Vallabhbhai Patel on 31st October is celebrated as National Unity Day and many more

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	View File
Any other relevant information	View File

7.2 - Best Practices

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

2. Objectives of the Practice C. U. Shah Science College is a Grant in Aid College, affiliated to Gujarat University and managed by The C U Ronak Foundation. The vision of our college is to impart quality education which can contribute to all round development of the students. The college is determined to achieve its goal for which it continuously engage in introspection along with collaborative teaching learning methods. For this, the Management emphasizes conduction of Internal and Academic audit. The objectives are: 1) To audit annual maintenance contract for various services and bill passing activities.

2) to audit student and teachers' attendance and compilation of results

3) to audit internal marks assessment procedure 3. The Context In today's times, it is a challenge to lead students to academic excellence for all round development. In such a scenario, Academic audit is the best practice to follow. Academic audit is a systematic and scientific process of reviewing the academic system for improvement of quality. This helps to assess the academic performance of both the teachers and the students. It provides self-assessment based on quality principles and promotes integration across programs and disciplines. By conducting academic audit, the accountability of each department is adjudged and the strengths and weakness are known. The audit can help to ensure punctuality, timely finishing of syllabi and understand the result pattern of the students.

File Description	Documents
Best practices in the Institutional web site	View File
Any other relevant information	View File

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

C. U. Shah Science college aims to impart quality education and promote creativity with an emphasis on holistic development of the students. One area where the Institute strongly focuses on, and has a distinctive performance is its teaching/learning process which is thoroughly robust and multidimensional. The Institute website displays Codes of conduct and learning outcomes. They are explained to the students by the facilitators. This knowledge helps teachers and students to set their goals and strive to achieve them. .The traditional methods of teaching are enhanced with ICT and other innovative and engaging methods so as to keep the students interested in the topic at hand and to increase the interface in the class. Participative and experiential learning are often used. . The college invites learned speakers from the Government, Academia, and Alumni to share their knowledge and interact with students and staff. The Institute has strong norms for discipline and keeps a keen eye on attendance, assignments, submissions and the like. The academic audit conducted annually by the management, promotes a healthy teaching learning atmosphere. The Institute has a big repository of books, journals, periodicals, theses, rare editions, manuscripts, and videos for the use of all staff and students. College encourages participation in sports, cultural and extension activities. The promising results of such surveys over the years have instilled a sense of achievement in the teachers and pride and confidence in the students

Part B

CURRICULAR ASPECTS

1.1 - Curricular Planning and Implementation

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

C U SHAH SCIENCE COLLEGE, AHMEDABAD neighbouring GUJARAT VIDYAPEETH, a pillar set by Gandhiji,to support Gandhian principles ; is affiliated to GUJARAT UNIVERSITY and is a GRANT IN AID college. The curriculum set by the GUJARAT UNIVERSITY for various science subjects being taught at UG is implemented by the college. However, in framing the curriculum, some of our professors are actively indulged in the form of members of BOARD OF STUDIES. In the meetings of BOS held time to time, our professors echo the need of UG learning and teaching while framing the curriculum. That well-planned curriculum gets implemented in theory classrooms as well as practicals in laboratories. With the help of the latest teaching aids and a lot of teaching experience, the teaching reaches both micro and macro levels. ORAL QUIZ while introducing curriculum is practiced along with WRITTEN QUIZ tested in written examinations. Involvement of students during classroom SEMINARS makes the learning process more fruitful developing a strong liking for core subjects. The professors participating in Seminars, Workshops and Conferences boosting students also to do the same since such activities are a part of their curriculum's practice. All the professors do attend necessary trainings like Orientation programs, Refresher courses and Short term courses which keep them updated with the new comings in their respective subjects. Just like our country, our classes are also full of diversity and so in need of a lot of mental therapies when we introduce the curriculum in classes. Such diversity leads to poor performance in examination, shyness in learning practical and dumbness in the classroom. So implementing well-planned curriculum needs psychological practices which is done by the professor with a lot of counselling in classroom sessions as well as preparing journals for practicals. Such practices done vigorously improve students' performance in theory and practical examinations being held twice in a year from Sem-1to Sem- 6. Emphasis on timely submission of Assignments in each paper of each subject aims at touching all corners of the prescribed curriculum which is thoroughly practiced the institution. Written Quiz per paper of respective subjects twice in a semester inspires the

students to study the syllabus minutely from all corners. Students are well informed about the minute and major changes in the curriculum introduced by the university. The institution introduces a new Academic Calendar per year in the beginning of the new academic year to implement the theoretical and practical curriculum just to complete it with effective learning. The university informs the college about the changes in the curriculum through it's website which is informed to the students with the help of a library noticeboard and departmental notice-board display. The professors do the same in classrooms and in practical's to avoid any misunderstanding regarding changes in curriculum. The college has strict norms about presence in class and in practical's. Regular attendance gets noted in online classes. Our college has excellent PLACEMENT CELL which proves to be a good bridge between students and Industry. The cell arranges workshops and seminars through which the need of the hour is understood by the students and professors well which brings out suggestions for changes in curriculum at last making it relevant globally.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	www.cushahsciencecollege.org

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

Following reforms have been introduced in the mode of continuous internal evaluation:

1) Previous practice of keeping the whole syllabus for the exam has been changed. Now maximum of 60 percent of the total syllabus is kept for exams.

2) Marks of the internal theory tests have been reduced from 45 to 30.

3) Objective-type questions are preferred rather than essay-type descriptive ones.

4) Assignments are introduced and given 35 percent weightage in the total internal marks.

5) Group presentations, weekly tests or quizzes are also emphasized which aim at fostering peer learning and mentoring, as well as building the public speaking skills of students.

6) Literature survey and review writing is strongly encouraged.

7) Introduction of project work to be submitted during practical viva voce.

8) Students are encouraged to participate in regional and state-level seminars and workshops and these presentations or reports may be considered as project work.

9) Due to online classes attendances of all students obtain via MS-Teams.

10) Academic audit was taken through google form each faculty member as well as all activities of the department.

11) Faculty members use conventional and innovative evaluation methods to account for diversity in student needs and abilities, especially difficulty experienced by some to express fluently in English.

12) Evaluation of teaching methodologies is done by students in the form of Feedback which are collected annually and analyzed

File Description	Documents
Upload relevant supporting documents	View File
Link for Additional information	www.cushahsciencecollege.org

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	C. Any 2 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

B.Sc

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)

00

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

00

1.2.3.1 - Number of students enrolled in subject related Certificate or Add-on programs

during the year

00

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

Action indeed is the all medium of expression for ethics. C U. Shah science college has a very energetic and active N.S.S. as well as N.C. C unit which has trained nearly 100 students on how ethics work in life and how very strongly attach them with day-to-day life. How important it is for us to recognize and celebrate our heroes and she-roes that is taught to students through various cultured and empowering activities done by C W D C unit in the college. The earth is what we all have in common so it's the earnest duty of we all to look after the environment without fail that is taught practically by eco-club has continued working. The cultivation of human values alone is education. In strict boundaries of informative syllabi, C U Shah Science College had added, the teaching of human values. With the help of various activities connected to Vivekananda Kendra being run in the college. The survival of needy people during the corona pandemic was done with a lot of social work by students of C U shah science college. Online teaching with the help of M. S.Teams application was an honest try by the staff of C U Shah Science College to sustain all prescribed curriculum by Gujarat University. Online cultural, debating poetry, essay writing competitions kept students energetic during the tense period of the corona pandemic

File Description	Documents
Any additional information	View File
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

00

File Description	Documents
Any additional information	View File
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
Number of courses that include experiential learning through project work/field work/internship (Data Template)	View File

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

00

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	D. Any 1 of the above

File Description	Documents
URL for stakeholder feedback report	View File
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	View File
Any additional information(Upload)	View File

1.4.2 - Feedback process of the Institution may be classified as follows	D. Feedback collected

File Description	Documents
Upload any additional information	View File
URL for feedback report	https://drive.google.com/drive/u/1/folders/1MUUjFF85EDak-ZGfhTH3Vg_QNCtU9bD_

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 sanctioned seats during the year

520

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

434

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

All students have to attend a compulsory Orientation Programme on admission.

The wide range of continuous assessment components that include, Daily Home Assignments, Class Assignments, Seminars and Group Discussions, Additional Assignments, Quizzes, Class Tests, Projects, Internships, Viva-voce examinations and attendance, enable effective assessment of learning levels of students. In addition, teacher-student interactions, reports of Class Committees and Proctorial meetings help in identification of different levels of learners. Faculty members and various Committees regularly review the academic progress and counsel students to improve their performance to ensure their academic growth. Special measures taken to support relatively slow learners are as follows. •

Organizing Extra Classes

• Remedial and Tutorial Classes are held to prepare them for remedial exams

• Assistance from classmates and senior students is arranged

• Providing tutorial assignments

• Providing lectures uploaded on web and extra reading material to improve basic understanding of subject

• Encouraging them to participate in various activities to develop social skills

• The Institute employs varied evaluations to test both Quality and Values.

• It has a continuous evaluation system with different types of

assessments spread throughout the semester. Assessment of values is also a continuous process with focus on discipline, conscience, dignity of labour, respect for religion and culture and community participation.

• It implements well-defined models of evaluation with varied types of assessment to effectively evaluate outcomes, both at the course and the program level. Figures below show the models for theory and practical courses.

File Description	Documents
Link for additional Information	www.cushahsciencecollege.org
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
1160	**38**

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

Mentoring is regularly done at the college, although at a more informal level. Some departments do follow a formal approach and assign TY students of each year amongst the faculties. Thus the mentor: mentee ratio changes department wise from year to year. The students are encouraged to approach their respective mentors for academic, individual as well as career related queries and stresses. They may even approach any other teachers if they wish. eg. The various departments prepare a document assigning Semester V and VI students equally amongst every faculty at the beginning of the semester. The teachers accept the responsibility and take it from there with their assigned students on an informal level. As far as students of semester 1 to 4 are concerned, they generally approach their respective in charge teachers for quarries. The Online (through MS-Teams) induction training program held for all newly admitted first

year students by the Principal and all the Heads of Departments to encourage for freely approach their teachers regarding any teaching related task.

File Description	Documents
Upload any additional information	View File
Link for additional information	www.http:\\cushahsciencecollege.org

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

Today, it is essential for the students to learn and master the latest technologies in order to be corporate ready. As a consequence, teachers are combining technology with traditional mode of instruction to engage students in long term learning. College uses Information and Communication Technology (ICT) in education to support, enhance, and optimize the delivery of education.

The following tools are used by the InstituteICT Tools:

1. Projectors- 6projectors are available in different classrooms/labs

2. Desktop and Laptops- Arranged at Computer Lab and Faculty cabins all over the campus.

3. Printers- They are installed at Labs, HOD Cabins and all prominent places.

4. Photocopier machines - Multifunction printers are available at all prominent places in the institute. There are four photostat machines available in campus.

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

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

7. Seminar Hall- It is digitally equipped with mike, projector, cameras and computer system.

8. Online Classes through Zoom, Google Meet, Microsoft Team, Google Classroom)

9. HackerRank (Online Coding Platform)- inter college competition

11. MOOC Platform (NPTEL, Coursera, SAP, Udemy, Edx etc)

Use of ICT By Faculty

A. PowerPoint presentations- Faculties are encouraged to use power-point presentations in their teaching by using LCD's and projectors. They are also equipped by digital library, online search engines and websites to prepare effective presentations. B. Industry Connect- Seminar and Conference room are digitally equipped where guest lectures, expert talks and various competitions are regularly organized for students. C. Online quiz- Faculties prepare online quiz for students after the completion of each unit with the help of GOOGLE FORMS. D. Video Conferencing- Students are counseled with the help of Zoom / Google meet applications. E. Video lecture- Recording of video lectures is made available to students for long term learning and future referencing

File Description	Documents
Upload any additional information	View File
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	http://www.cushahsciencecollege.org

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

31

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

38

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

0

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

38

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.

Following reforms have been introduced in the mode of continuous internal evaluation: 1) Previous practice of keeping the whole syllabus for the exam has been changed. Now maximum 60 percent of the total syllabus is kept for exams. 2) Marks of internal theory test have been reduced from 45 to 30. 3) Objective type questions are preferred rather than essay type descriptive ones. 4) Assignment are introduced and given 35 percent weightage in the total internal marks. 5) Group presentations, weekly test or quiz are also emphasized which aim at fostering peer learning and mentoring, as well as building public speaking skills of students. 6) Literature survey and review writing is strongly encouraged. 7) Introduction of project work to be submitted during practical viva voce. 8) Students are encouraged to participate in regional and state level seminars and workshops and these presentations or reports may be considered as project work. 9) Due to online classes attendances of all students obtain via MS-Teams. 10) Academic audit was taken through google form each faculty members as well as all activities of department. 11) Faculty members use conventional and innovative evaluation methods to account for diversity in student needs and abilities, especially difficulty experienced by some to express fluently in English. 12) Evaluation of teaching methodologies is done by students in the form of Feedback which are collected annually and analyzed.

File Description	Documents
Any additional information	View File
Link for additional information	https://www.cushahscience.org.

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

The institute has devised an efficient mechanism to deal with examination related grievances which transparent in the pattern and conduction of CIE and rectification of grievances is time bound. The college follows strictly the guidelines and rules issued by the affiliating university while conducting internals and semester-end examinations. At Institute level: At Institute level, an examination committee, comprising of a senior teacher as convener and other teaching and non-teaching staff as members, is constituted to handle the issues regarding evaluation process. The teacher distributes evaluated answer scripts to students, and any clarifications or grievances are addressed by the teacher. The internal marks are displayed on the notice board. If any discrepancy like mistakes in question paper, mark allocation, correction is noticed by the students, the concerned teacher will resolve the discrepancy, and the necessary corrections will be made. If a student is not satisfied with the marks awarded even after resolved by the teacher, then he may represent the same to the HOD concerned. All such representations are taken positively and are reassessed by another teacher if necessary. Students are counseled by the faculty mentor, and remedial classes are conducted for students who have failed in the examinations. Retest for the Internal Assessment are conducted for Students who remain absent for internal exams due to genuine reason. Within a time bound the Internal Assessment marks are entered in the University web portal, by student's login, students can individually view their performance in the University portal. At University level: If students have grievances related to evaluation of university answer scripts it is intimated to the subject handling faculty and head of the department if necessary, for further action. Students can bring their grievances by applying for the following evaluation procedure: Re-Evaluation: Students can apply for re-evaluation of their answer scripts within a week from the declaration of results if they are not satisfied with their results. The results of re-evaluation will be announced as per the university norms. Challenge Evaluation: If the re-counting/re-evaluation results are not satisfactory, a student can apply for challenge evaluation within a week after the announcement of the revaluation results. The evaluation process is carried out by two subject experts. Result will be announced before commencement of University Examination and the fees will be refunded to the students if he/she clears the paper. So maximum

chances are given to the students to clear the subject. The entire process is maintained transparent and time bound by the university

File Description	Documents
Any additional information	View File
Link for additional information	https://www.cushahscience.org.

2.6 - Student Performance and Learning Outcomes

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

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

Response:

The college has clearly stated learning outcomes of the Programs and Courses. The following mechanism is followed by the institution to communicate the learning outcomes to the teachers and students.

· Hard Copy as well as soft copy of syllabus, reading materials, class notes and Learning Outcomes in the form of references, Question-answers and in quiz forms are provided to the students onto the digital platforms like college website, WhatsApp, telegram, MS teams etc…..

· The importance of the learning outcomes has been communicated to the teachers in every IQAC meeting and College Committee meeting

· The students are also made aware of the same through Tutorial meetings

· Workshops have also been conducted for developing the Programme Educational Objectives and Learning outcomes at college level

The institution is running Under Graduate (B.sc-Grant in Aid)

There are 6 subjects in the college viz. Chemistry, Physics, Botany, Zoology, BioChemistry, Mathamatics

Department of Physics Programme Outcome

? Physics is a branch of science that studies matter and its motion through space and time, along with related concepts such as energy and force. Physics is one of the fundamental sciences because the other natural science deal with systems that seems to obey the law of Physics. According to Physics, the physical laws of matter, energy and the fundamental forces of nature govern the interactions between particles and physical entities (such as plants, molecules, atoms or the subatomic particles).

· Physics deals with a wide variety of systems, certain theories are used by all physicists. Each of these theories were experimentally tested numerous times and found to be an adequate approximation of nature.

· Physics uses mathematics to organize and formulate experimental results and from which new predictions can be made.

· The results from physics experiments are numerical measurements. Technologies based on mathematics, made computational physics as active area of research. Programme Specific Outcome · The theory of classical mechanics accurately describes the motion of objects, provided they are much larger than atoms and moving at much less than the speed of light.

· To provide the detail study of atom and the behavior of atom in various states. Course Outcomes

· The students will demonstrate a scientific knowledge of the core physics principles in Mechanics, Electromagnetism, Modern Physics and Optics

· The student will determine the appropriate level of technology for use in experimental design and implementation, analysis of experimental data and numerical and mathematical methods in problem solutions

· The students will demonstrate a purposeful knowledge of scientific literature and ethical issues related to physics

· The students will effectively communicate their knowledge of physics from basic concepts to specific detailed presentations through a variety of oral, written and computational modalities

· To acquire the basic knowledge of mechanics, properties of matter and gravitation

· Learn motion of bodies and sound waves

· To inspire interest for the knowledge of concepts in physical and geometrical physics

Department of Chemistry Programme Outcome

· Students will demonstrate an understanding of major concepts in all disciplines of chemistry

· Students will employ critical thinking and the scientific method to design, carryout, record and analyse the results of chemical experiments and get an awareness of the impact of chemistry on the environment, society and cultures outside the specific community. Programme Specific Outcome

· The ability to explain chemical nomenclature, structure, reactivity and function in their specific field of chemistry.

· The design and execution of the experiment should demonstrate an understanding of good laboratory and the proper handling of chemical waste streams and also explain how the applications of Chemistry relates to the real world. Course Outcomes

· Students will gain an understanding of methods of analysis related to chemical analysis goals such as detection of elements.

· Enable the students to get understand the laws of thermodynamics and the Computer C Programming.

· After completing this course, students must have a basic knowledge of textile chemistry for an understanding of the chemical structure and properties of textile fibers and the properties of textile percipients and dyes.

· To understand the principles of radio activity

· To study the magnetic properties of molecules, chemical

kinetics and photo chemistry.

· To enable the students to learn about classification of polymers- methods of preparation of polymers, different types of polymerization, molecular weight of polymers.

· Students to learn about electro chemistry. Department of Botany Programme Outcome To inculcate in students the scientific study of plants which in learn is used in many aspects of human life. Plants being necessary for supporting all life forms on earth, either directly or indirectly. Its study helps in better understanding of our selves at the cellular and genetic level. Course Outcomes

? Students will be able to define and explain major concept in the biomolecules like carbohydrates, proteins, etc...

? It will helps the student to use instruments in proper and correct way for measuring pH, conductance, potential etc..

? It will enable the students to explain and apply the scientific method including designing and conducting experiments and testing hypotheses.

? Students will be able to communicate knowledge of chemistry in oral and written for.

Department of Biology (Botany &Zoology) Programme Outcome

To understand the nature and basic concepts of Zoology. To understand the analysis of relationship among animals, plants, microbes and environment. It provides insight into how “Life” works and consequently, how we work. The concept of students is cleared in the laboratory of Bio- Science.

Course Outcomes

? Students will be able to demonstrate the ability to read, understand and critically review scientific information

? Students will be able to demonstrate ethical conduct in scientific activitie.

? Students will be able to recognize the relationship between structure and function at all levels: molecular, cellular and organism.

Department of Mathematics Course Outcomes

· Demonstrate basic manipulative skills in algebra, geometry, trigonometry and beginning calculus.

· Apply the underlying unifying structures of mathematics and the relationships among them.

· Demonstrate proficiency in writing proofs.

· Investigate and apply mathematics problems and solutions in a variety of contexts related to science, technology, business and industry and illustrate these solutions using symbolic, numeric or graphical methods.

· Students can understand the foundation of Mathematics.

· They are able to perform basic computation in higher Mathematics.

· Students are able to develop problem solving skills

· They are able to communicate Mathematical ideas with others.

· They can enhance the quality of analysis and research in different mathematical fields. Operations research can develop management quality in different industries and factories.

Department of Biochemistry Course Outcomes

Biochemistry is a major growth industry worldwide. Every day new exciting developments take place in various fields like biotechnology, genetic engineering microbiology, medicine, agriculture, horticulture and forensic science. We offer best educational environment and relevant skills to meet the recent opportunities of the developing world.

To promote quality in Biochemistry education and training in the North Gujarat region of the state.

To create awareness about the benefits & perceived risks of Biochemistry intervention in (i) sustainable development and utilization of nature recourses (ii) Human animals, plant health and (iii) environmental protection.

To assist students to fashion their career in the field of Biochemistry.

After completing B.Sc. students can go for higher studies so as to find themselves placed in :

- **Pharmaceuticals firms**
- **Public and Private R & D centers**
- **Agriculture & Fertilizers firms**
- **Forensic Science**
- **Environmental Science**
- **Medicine**
- **Food Technology**
- **Bio-informatics Depts. Various Institute/Firms eg. IITs, CCMB, Wipro etc.**

DEPARTMENTAL ACTIVITIES

- **Poster Presentation**
- **Paper Presentation**
- **Quiz Competition**
- **Students Corner**
- **Teachers Day Celebration**
- **Project Work**
- **Study Tour**

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	https://www.cushahscience.org.
Upload COs for all courses (exemplars from Glossary)	View File

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

The program outcomes and Program Specific outcomes are assessed with the help of course outcomes of the relevant courses through direct and indirect methods. Direct methods are provided through direct examinations or observations of student knowledge or skills against measurable course outcomes. The knowledge and skills described by the course outcomes are mapped to specific problems on University Examination, internal exams and home assignments. Finally, program outcomes are

assessed and Program Assessment Committee concludes the PO attainment level. At the end of each semester, the university conducts examinations based on the result published by university the course outcomes are measured. Assignments are given at the end of each module. The assignments are provided to students and they refer the text books and good reference books to find out the answers and understand the expected outcome of the given problem. Three internal tests are conducted per semester for the following purposes: To ensure that students have achieved desired level of competencies at module level. To evaluate, whether corresponding COs are achieved or not. According to the performance of the student in answering each question, mapping is carried out with the respective COs for assessing the attainment level of the specific CO of the subject.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	https://www.cushahscience.org.

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

405

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/drive/u/1/search?q=report

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://www.cushahscience.org

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)

00

File Description	Documents
Any additional information	View File
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 departments having Research projects funded by government and non government agencies during the year

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

00

File Description	Documents
List of research projects and funding details (Data Template)	View File
Any additional information	View File
Supporting document from Funding Agency	View File
Paste link to funding agency website	http://www.cushahsciencecollege.org

3.1.3 - Number of Seminars/conferences/workshops conducted by the institution during the year

3.1.3.1 - Total number of Seminars/conferences/workshops conducted by the institution during the year

00

File Description	Documents
Report of the event	View File
Any additional information	View File
List of workshops/seminars during last 5 years (Data Template)	View File

3.2 - Research Publications and Awards

3.2.1 - Number of papers published per teacher in the Journals notified on UGC website during the year

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

1

File Description	Documents
Any additional information	View File
List of research papers by title, author, department, name and year of publication (Data Template)	View File

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

3.2.2.1 - Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings during the year

1

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

3.3 - Extension Activities

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

The pandemic of Covid-19 situation mostly affected the extension activities throughout the year. Therefore, this year we have done very less extension activities. Our NSS unit made the ayurvedic kava and distribution it under the AMC health guideline in the month of November and December.

File Description	Documents
Paste link for additional information	https://www.cushahsciencecollege.org/
Upload any additional information	View File

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

3.3.2.1 - Total number of awards and recognition received for extension activities from Government/ government recognized bodies during the year

00

File Description	Documents
Any additional information	View File
Number of awards for extension activities in last 5 year(Data Template)	View File
e-copy of the award letters	View File

3.3.3 - 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

3.3.3.1 - 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

2

File Description	Documents
Reports of the event organized	View File
Any additional information	View File
Number of extension and outreach Programmes conducted with industry, community etc for the last year (Data Template)	View File

3.3.4 - Number of students participating in extension activities at 3.3.3. above during the year

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

00

File Description	Documents
Report of the event	View File
Any additional information	View File
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	View File

3.4 - Collaboration

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

00

File Description	Documents
e-copies of linkage related Document	View File
Details of linkages with institutions/industries for internship (Data Template)	View File
Any additional information	View File

3.4.2 - Number of functional MoUs with national and international institutions, universities, industries, corporate houses etc. during the year

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

00

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	View File
Any additional information	View File
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.

The college has adequate physical and academic facilities required as per University Grant Commission guidelines to run the different programs. The college campus area is around 1.03acres, on which building construction is 45000.00sq. fts. The various departments in Science streams are located in the separate floor. The Classrooms, Laboratories and Seminar Halls are well equipped along with computing system and Internet facility. Besides the building, the college has spacious playground for sports activities. The college has cultivated an atmosphere providing the importance to Extra-Curricular and support services organized by departments of National Service Scheme and National Cadet Cops. The College has a lake for water storage under rain water harvesting scheme. The college campus is maintained with cleanly and neatly atmosphere. The institute is enriched with well developed physical as well as academic infrastructures. It has specious classrooms, smart-multimedia class rooms, well-equipped science laboratories, Digital English Language Laboratory, prosperous library, botanical garden and parking facilities and other amenities. · Well-furnished 15 classrooms.

- **Each Department of college in the campus has independent staff rooms, lecture rooms and laboratories with well stocked library resource.**

- Well equipped laboratories and class rooms with LCD and OHP facility.
- Separate computer – Dell/SCOPE laboratory.
- Well developed library with various reference books/ journals, different regional news papers and top news papers.
- Lift facility for laboratories building.
- Whole College is under CCTV surveillance.
- State transport (ST) bus, AMTS bus and railway concession are granted to the regular students as per government rules and regulations.
- Accident insurance to each students of college from state government is availed.
- NAMO Wi-Fi – internet facility is available.
- Primary Health Care is available in chemistry department.
- The buildings are secured with fire extinguishers.
- Toilet and cold drinking water facility is available.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.cushahsciencecollege.org/

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

SPORTS

The college teams of Football, Basketball, Volleyball and Cricket participate in various local and national level tournaments. The sports committee also invites colleges and clubs across Gujarat like…

SPORTS MEET

A healthy body houses a healthy mind. To promote student interest in games and sports, many sports activities are conducted periodically. The college provides sporting facilities to students for cricket, volleyball, table tennis and many other games and sports. An annual sports fest is also conducted by the college where various sporting competitions are conducted. This develops a healthy competitive spirit among

the students and foster a feeling of cooperation among students of various departments as well.

Study and sports are two linked components of our learning process and will always be important for an individual. A healthy mind can exist only in a healthy body. It is rightly said that a healthy nation can be built if the citizens are physically fit. The mental pressure and tension arising out of the fast modern life can only be released in the playground and therefore, healthy diet and fitness have gained a new status in today's world.

CULTURAL ACTIVITY CLUB

All colleges affiliated to the Gujarat University are divided in the five zones. C.U.Shah Science College falls in the "Ellisbridge North Zone". Usually youth welfare department organizes zonal youth festival by the end of the September every year. Cultural committee organizes different events and competitions prior this youth festival. Viz. music, dance, literary events, theatre, fine arts etc. Winner students of the college in each event represents college in the respective event. Winner at zonal level compete at inter zonal level.

College has won 18 prizes so far at zonal level and a prize at inter zonal level.

In the second term, committee organizes cultural festival that comprises events like singing, instrument playing, group and solo dance, skit, one act play, mime, poetry recitation and poetry completion, wall painting etc.

National Independence Day and Republic Day are celebrated in the Institute by unfurling the national flag followed by a guard of honor of the Chief Guest by NCC students, an impressive march past of students of all faculties on the beats of the students' band and organization of athletic events. The best marching contingent is adjudged by a panel of army veterans

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://www.cushahsciencecollege.org

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

6

4.1.3.1 - Number of classrooms and seminar halls with ICT facilities

6

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://www.cushahsciencecollege.org
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)

00

File Description	Documents
Upload any additional information	View File
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)

Library Maintenance Library day to day activities are managed by the Librarian and library peon and overseen by the library committee. Library follows the Government norms to identify worn-out books, and stock verification of the books is also carried out on annually. Students are given library cards to

borrow books and a register is maintained to assess the footfall at the library. still we have not use the integrated library management system due to limited funds.

File Description	Documents
Upload any additional information	View File
Paste link for Additional Information	https://www.cushahsciencecollege.org/facility/

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

E. None 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)	View File

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)

00

File Description	Documents
Any additional information	View File
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

00

File Description	Documents
Any additional information	View File
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 college has well developed system for provinding IT facilities –

1. There are 6-rooms and seminar/lecture hall/conference halls equipped with ICT facilities.

2. The hardware and software purchase , maintenace , Internet, Wi-fi, networking is done through e-tendering.

3. College website is monitored and updated from time to time by the IQAC .

4. The campus of the college is Wi-fi

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.cushahsciencecollege.org/

4.3.2 - Number of Computers

18

File Description	Documents
Upload any additional information	View File
Student – computer ratio	View File

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

File Description	Documents
Upload any additional Information	View File
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)

0.96

File Description	Documents
Upload any additional information	View File
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.

Since its inception in 1965, C. U. Shah Science College is ably managed by the C U Ronak Foundation providing the capital expenditure necessary to run all academic, administrative, and other activities. There is a Building and Infrastructure Committee that coordinates the repair and maintenance needs from time to time. Maintenance of the college infrastructure is undertaken as follows: 1. Routine Maintenance: It includes the cleaning of the entire college campus and other infrastructure facilities. Routine maintenance like sweeping off the campus classrooms, staff rooms, office, computer lab, libraries, etc. is carried out by the institute-appointed staff and temporary staff hired on a contract basis. The work is supervised by the Office superintendent. 2.Building Maintenance: It involves painting and repair work of college buildings, plumbing work,

etc. Recently C. U. Ronak Foundation has spent some rupees on the up-gradation of physical infrastructure without changing its external physical structure. 3. Electrical Maintenance: The institute has obtained a dedicated power line from Torrent Power Limited (TPL), Ahmedabad. The major faults are resolved by the TPL, however, routine servicing, repairing, and replacement of electrical accessories and installations in the campus are carried out by the outsource Electrician (staff). 4. Repair works: This includes the repairs of the furniture of the auditorium, classrooms, labs, library, etc. by external agencies provided by AES Institute's equipment like air conditioners, CCTV, water coolers, and RO systems are serviced regularly under annual maintenance contracts. 5. Library Maintenance Library day-to-day activities are managed by the Librarian and library peon and overseen by the library committee. Library follows the Government norms to identify worn out books, and stock verification of the books is also carried out annually. Students are given library cards to borrow books and a register is maintained to assess the footfall at the library. 6. Laboratory Maintenance The Laboratory assistants(s) and Faculty in charge of respective laboratories are responsible for the upkeep of equipment. The equipment stock in the laboratory is maintained and audited. The obsolete equipment is identified as per Government norms. 7. Computer Maintenance The maintenance for all computers is given on yearly basis after inviting quotations and scrutiny. Under the AMC, the servers and desktop systems are checked on a monthly basis and the hardware up-gradation for network equipment like antivirus, access points, and switches are done on a need basis. 8. Gas Maintenance The laboratory gas connections are provided by Adani Gas Limited. They monitor the supply and leakage of gas on regular basis. A Gas mechanic (permanent staff) is appointed for the gas maintenance. 9. Utilization of Common facilities The HoD and faculty can avail of the common facilities such as the Auditorium for guest lectures and seminars, some common laboratories for workshops, etc. with prior intimation to the Office Superintendent.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.cushahsciencecollege.org/

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

433

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	View File
Upload any additional information	View File
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

433

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	D. 1 of the above

File Description	Documents
Link to institutional website	http://www.cushahsciencecollege.org
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

00

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

00

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 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	E. None 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

31

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	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

433

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

00

File Description	Documents
Upload supporting data for the same	View File
Any additional information	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.

0

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)

The students' council/Union is an essential part of the Institute functioning. The Institute believes in the dynamic participation of the students in various academic, curricular, extracurricular and other day to day activities so as to prepare them for leadership roles, team work, organization and execution of events. The Students council is headed by the Principal and senior faculty members and includes one General Secretary, one Cultural secretary, One Ladies' representative, Class representatives and some co-opted members.

Selection Procedure: At the beginning of the year, the Principal and member faculties hold a meeting with all the topper students of semesters I, III and V. The General Secretary is selected from the Sem V purely on merit (of Sem IV), interest and willingness, irrespective of the gender or subject. Next, the cultural secretary is chosen and finally, a girl student is selected as the Ladies' representative. All other student representatives from the union team.

Student's council arranges a talent hunt where all students from semester 1 to 6 are encouraged to participate and showcase their talent in music, dance, drama, literary activities, fine arts, cooking competition and personality contests. Many of the student council members and other volunteers are selected to represent the college at the SAPTDHARA cultural activities of Knowledge Consortium of Gujarat.

File Description	Documents
Paste link for additional information	http://www.cushahsciencecollege.org
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

0

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 Alumni Association was established on 30th June 2006, Currently, the association comprises 260life members. The students who have completed UG, PG or Ph. D. from the college and past and present faculty members are eligible to register as members of this alumni association. contributes significantly to the development of the Institution directly or indirectly through financial or other means. It not only provides a platform for alumni to maintain their link with their Alma mater, but strives to promote education and learning at the institute. As per the UGC guidelines, the IQAC of the college comprises of at least one member from the Alumni association. This way, the alumni can contribute in various decision making processes of the Institute.

The college Alumni supports philanthropic activities like funding to deserving and needy students for their studies, organizing workshops, lectures and symposia. Not only financially but alumni members enthusiastically participate in flag hoisting, talent programme and other celebrations at the institute.

Thus, the active involvement of the Alumni provides a platform for sharing their work, technical knowledge and experience which has proved highly essential in the holistic development of the students, reflecting the core objective of the alumni association. The leading members of the Alumni Association have regular interaction with the Principal, the management, and the staff members regarding the overall development of the college.

File Description	Documents
Paste link for additional information	http://www.cushahsciencecollege.org
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	View File

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

C U Shah Science College is co-educational institution governed by the C U Ronak foundation. The Committee is guided by the policies formulated by the C U Ronak foundation Education Commission, the policy making body for all colleges under this.

The College functions in compliance with the directions given by UGC, MHRD, Government of Gujarat, and Gujarat University to which it is affiliated.

The Institution, inspired by its vision of “integrated development of urban & rural students and society” charts out its perspective plan for every years and effectively implements it. The College located in an urban setup has produced thousands of first-generation graduates.

- **VISION**
- **To motivate and mould undergraduates of science with a sense of commitment and competence in the era of Globalisation, Liberalisation and Privatisation.**

- **MISSION STATEMENTS**

- **Education based on ideal combination of values and needs •Promotion of Entrepreneurship and Personality Development •Cultivation of skill development and sense of initiatives •Adoption of healthier practices conducive to morals, values and ethics of education**

GOALS AND OBJECTIVES

- **To achieve academic excellence.**
- **To compete them at national and international level in all areas of life.**
- **To develop leadership qualities.**
- **To develop all round personalities of the students.**
- **To provide orientation to students towards research.**

- **To promote the faculty towards quality research and examination.**

File Description	Documents
Paste link for additional information	https/www.cushahsciencecollege.org
Upload any additional information	View File

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

The College promotes participative management. Ideas pertaining to academic goals, organizational progression and better campus life are collected from all stakeholders to promote efficient functioning of the College. The staff and other stakeholders help in infusing a positive attitude that leads to increased efficiency, improved communication, heightened morale, motivation and job satisfaction. Believing in decentralization, the Management takes policy decisions, finance, infrastructure etc. with the help of members of the College Development Committee. CDC discusses matters related to teaching and administrative staff and decisions are taken at these levels are implemented e.g. the planning of Multidisciplinary International Conference and its implementation.

Believing in democratic values, the institution has decentralized and participative management. The fruition of this was channelized in a multi-disciplinary international conference.

Objectives:

- **• To bring together contributions from all traditional and non-traditional fields of humanities, social science, commerce, science and technology.**
- **• To advance human self-understanding and communication.**
- **• To Forster multicultural and international conversation concerning the human issues.**

Strategy:

Since it was a gigantic activity including disciplinary, multidisciplinary and post disciplinary fraternity, following strategy was unanimously decided.

Approval from Parent Body:

Normally all the major decisions are taken by the parent body. The Principal formally put this proposal in the monthly meeting of the executive council which was readily sanctioned.

File Description	Documents
Paste link for additional information	http://www.cushah
Upload any additional information	View File

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

Institutional Strategic Goals

1. Efficient Teaching erudition procedure

2. Effective Leadership and Participative management

3. Constant Internal Quality Assurance System

4. Ensuring effective governance

5. Student’s Overall Development through Participation

6. Employees Advancement & Welfare

7. Escalating Placements

8. Proper Discipline

9. Women/Student/Faculty Grievance

-

10. Financial Planning & Management

11. Institute – Industry Interaction

12. Encouragement of Budding Entrepreneurs

13. Alumni Interaction and Outreach activities

14. Mounting Physical Infrastructure

- Efficient Teaching Erudition procedure

- Academic planning and preparation of Academic Calendar
- Preparation of teaching plan as per OBE
- Preparation of Lesson Plan based on CO & PO mapping
- Conduct training based on current demand analysis
- Constant assessment to measure outcomes
- Use of more practical methods of teaching
- Use of e- learning resources
- Promote research culture &facilities
- Provide mentoring and individual support
- Follow a transparent feedback system
- Performance enhancement through workshops and seminars.
- Implementation of best practices for students
- Evaluation parameters and benchmarking

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	http://www.cushahsciececollge.org
Upload any additional information	View File

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.

C U Shah Science College is administered by the C U Ronak Foundation which has an exclusive Commission for Higher Education. The Higher Education Commission formulated Higher Education to be followed by all colleges under the, Gujarat University and Government of Gujarat and HEI . Based on the need, and according to the policy of Higher Education, Guidelines and Procedures are formulated by the College and get approval from the Higher Education Commission through the Board of Management.

· The overall planning and development of the institution is done by the Board of Management under the President ship of the C U Ronak foundation and locally executed under the directions of the management ,

· The Principal is the academic head, ensuring the proper conduct of all the academic, research and extension activities.

· The Statutory Bodies are constituted and meetings are conducted as per the UGC, MHRD, State Government and University guidelines.

· The Non-statutory Bodies are constituted by the Board of Management to complement the functions of the Statutory Bodies.

· There are Committes, Cells and Associations focussing on specific tasks and roles in the College.

· The executive leadership is shared with the Principal, the Controller of Examinations, IQAC Co-ordinator and all the Heads of the Departments.

File Description	Documents
Paste link for additional information	http://www.cushahsciececollge.org
Link to Organogram of the Institution webpage	http://www.cushahsciececollge.org
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	**E. None of the above**

File Description	Documents
ERP (Enterprise Resource Planning)Document	View File
Screen shots of user interfaces	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

For Teaching Staff

Ø List the support given for faculty career advancement/ lifelong learning:

Ø Special Study leave to purpose higher studies.

Ø Sabbatical leave (OD) for attending examination, FDP, National/ International conference.

Ø List of major welfare facilities given to the facility and their family members:

Ø Special Transport is arranged during festival season to the native place.

Ø Medical Leave in case of hospitalization for more than 3 days.

Ø Maternity leave for 6 months as per government of Gujarat leave rule for lady teaching, nonteaching staff members.

Ø On any medical need, hospital facility is arranged.

Ø Periodical heath check-up is conducted by a team of doctors.

Ø Staff member sports (indoor game, outdoor games) are conducted.

Ø Motivation talks from the experts are conducted.

Ø General Amenities:

Non-Teaching

Ø Incentives / Awards

Ø Marriage gift and marriage leave with pay for 7 days.

Ø List of major Welfare facilities given to the facility and their family members:

Ø Provident Fund contribution accounting to 12 is subscribed to all the staff members right from the day of joining.

Ø Special Transport is arranged during festival season to the native place.

Ø All the staff are included Group Insurance Scheme.

Ø Free uniform is provided.

Ø List the measure taken for faculty work life balance:

File Description	Documents
Paste link for additional information	http://www.cushahsciececollge.org
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

00

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

2

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	View File
Reports of Academic Staff College or similar centers	View File
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

2

File Description	Documents
IQAC report summary	View File
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	View File
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

For Teaching Staff

Ø List the support given for faculty career advancement/ lifelong learning:

Ø Special Study leave to purpose higher studies.

Ø Sabbatical leave (OD) for attending examination, FDP, National/ International conference.

Ø List of major welfare facilities given to the facility and their family members:

Ø Special Transport is arranged during festival season to the native place.

Ø Medical Leave in case of hospitalization for more than 3 days.

Ø Maternity leave for 6 months as per government of Gujarat leave rule for lady teaching, nonteaching staff members.

Ø List the measure taken for faculty work life balance:

Ø On emergency, transport facility arranged.

Ø On any medical need, hospital facility is arranged.

Ø Periodical heath check-up is conducted by a team of doctors.

Ø Staff member sports (indoor game, outdoor games) are conducted.

Ø Motivation talks from the experts are conducted.

Ø General Amenities:

Non-Teaching

Ø Incentives / Awards

Ø Marriage gift and marriage leave with pay for 7 days.

Ø List of major Welfare facilities given to the facility and their family members:

Ø All the staff are included Group Insurance Scheme.

Ø Free uniform is provided.

Ø Medical Leave in case of hospitalization for more than 3 days.

Ø List the measure taken for faculty work life balance:

File Description	Documents
Paste link for additional information	http:\\www.cushahsciencecollege.org.
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

The management monitors the funds by two types of audits internal audits and statutory audits. The internal auditor audits the income and expenditure. The statutory auditor is responsible for final statement of expenditure and utilization certificates. The internal audit takes place twice in a year the final audit is completed at the end of the financial year. A recognized chartered accountant firm is appointed for the audits. Its audited statement is reviewed by the management and sent back to the Institute with remarks, if any.

The last audit was done in Dec-2020. There were no audit objections.

File Description	Documents
Paste link for additional information	http://www.cushahsciencecollege.org
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)

00

File Description	Documents
Annual statements of accounts	View File
Any additional information	View File
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

Response:- Sources of funds are as follows:

1.Fees: Fees charged as per the university and government norms from students

2.Salary Grant: The College receives salary grant from the State Government. For this, we prepare and send an annual budget of the estimated salary grant required to the state government. This grant includes salaries of the Full Time Permanent teachers and nonteaching staff.

3. UGC Grants: Our College is under 2F and 12B as per UGC Act and Permanent Affiliation of the University. Sowe receive grants from the UGC for the development and maintenance of Infrastructure, upgrade of the Learning Resources and Research (including grants for Minor and Major Research Projects).

Our resource mobilization policy and procedures are as follows:

1. The institution set up a UGC Committees per the directions of the UGC given in the XII Plan

. 2. The UGC Committee, in close coordination with the CDC and the IQAC, monitors the mobilization of funds and makes sure that the funds are spent for the purpose for which they have been allocated.

3.The College Development Committee takes a review of the mobilization of funds and the utilization of these sources periodically in their meetings.

4.The time-table committee looks after the proper utilization of classrooms and laboratories.

5.The Library Advisory Committee takes care that the resources in library are utilized optimally.

6.Our Botanical garden is maintained by department of Botany.

9.Campus cleanness and its utilization is monitored by theCommittee.

9. To ensure the optimum utilization of resources, the Principal issues directions

File Description	Documents
Paste link for additional information	http://www.cushahsciececollge.org
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

For continuous evaluation of institutional overall performance, assessment and to accredit the quality, up-gradation of institutions at national level, the National Assessment and Accreditation Council (NAAC), Bangalore proposes a continuous monitoring system by inserting institute-level Internal Quality Assurance Cell (IQAC). This is post-accreditation quality sustenance measurement.

IQAC continuously observe enhancement of the quality of Institute at teaching, placement, extracurricular activity, research area involvement of faculties and students. Every year IQAC receives report of progress in the institute in every aspects. These reports are sent to the NAAC in the form of AQAR. The role of IQAC in the institute is to establish system of improvement and performance measurement.

To keep maintaining the quality of the institute the IQAC

provide vital role in the overall development of the institute and to stand in the competing era of education. Furnished with Co-opt members, IQAC of the institute always provide latest and quality guidance to the institution.

Now a day UGC has set new role of IQAC by monitoring Performance Based Appraisal System for career advancement of faculties in the institute.IQAC is a facilitative and participative voluntary cell formed by the institution under guideline of NAAC. The IQAC has strong interventionist strategies to remove deficiencies and enhance quality in the institute.

File Description	Documents
Paste link for additional information	http://www.cushahsciencecollege.org
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

Basic Functions of IQAC are as follows:

OBJECTIVES AND FUNCTIONAL BASIS OF INTERNAL QUALITY ASSURANCE CELL (IQAC)

- National Action Plan Prepared by NAAC.
- To enhance quality of teaching and continuous process of progression and improvement.
- Efficient progressive performance of Academic, Administrative and financial tasks.
- Affordability of academic programs for various sections of society.
- Adoption of new and innovative courses, programs and activities to increase the potential of the society.
- Optimization and Integration of modern methods of teaching and learning.
- Adequacy in maintenance and proper allocation of support structure and services.
- Networking to other Institutes in India and Abroad.
- Improvement in services like Library, Computer centre,

Estate, Student welfare, administration, examinations and planning.

- To find limitations and strengths.
- Ensuring the effective functioning of all the committees of the institute.
- Right balance between health and growth of the Institute.

File Description	Documents
Paste link for additional information	www.cushahsciencecollege.org
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)	D. Any 1 of the above

File Description	Documents
Paste web link of Annual reports of Institution	www.cushahsciencecollege.org
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

Measures initiated by the institution for the promotion of gender equity during the last five years:

? NCC andNSS unit is started exclusively to encourage the girl students and the unit is successfully conducting various activities to serve the society.

? The health centre is provided on the campus with a qualified physician with a separate medical room.

? Beti Bachao, Beti Padhao Jan Aandolan Rally, Celebrations of International Women's Day

? Yoga Sessions

? Rakhi Making Competition

? Seminar on POSCO (Protection of Children from Sexual Offences) ACT to create awareness about Child Protection Policy that ensures a safe environment.

? The institute has a policy of appreciating faculty without gender bias. Women faculty are nominated, based on their ability, as heads of the departments and conveners of various committees and discharging their duties efficiently

File Description	Documents
Annual gender sensitization action plan	https://drive.google.com/drive/u/1/search?q=type:document
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	www.cushahscienccollege.org

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	D. Any 1 of the above

File Description	Documents
Geo tagged Photographs	View File
Any other relevant information	View File

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

Solid Waste Management College has a place on its campus where the solid waste materials are disposed of.

It is to notice that in the state of Gujaratkeeping a particular place for dumping solid waste is in its culture. Therefore, every house has its own Solid waste management system. This system is called 'Ghurwa'. It is to be noticed that there is a flagship program of the state government that comprises the concept of solid waste management. The college also manages its solid waste management system, keeping this in view. However, there does not exist more waste from college.

Liquid Waste Management- The wastewater is carried out through the pipeline. This system is made by the Public Welfare Department of the state government. Biomedical Waste Management- There is no biomedical waste management system in the college.

E-waste Management- There is no e-waste management system in the college.

Waste recycling system- There is no system of Waste recycling in the college. However, there is rain water harvesting system in the college. The e-medical Waste Management- There is no e-medical waste management system in the college.

Hazardous chemicals and radioactive waste management- There is no Hazardous chemicals and radioactive waste management system.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
Geo tagged photographs of the facilities	www.cushahsciececollege.org
Any other relevant information	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	E. None 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 with trees and plants**	E. None of the above

File Description	Documents
Geo tagged photos / videos of the facilities	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	E. None of the above

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

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	View File
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

E. None 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	View File
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).

This year (pandamic of Covide-19) , our institute has followed the strict guideline provided by the Government of Gujarat and Gujarat university. so college couldn't arrange any physical activity for cultural, regional, and linguistic. But college staff have beenarranged some online activities for students like motivational lectures, covid-19guidelines online practicals , awareness in the society,

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

The institute conducted awareness programs on the ban on plastics, cleanliness, Swachh Bharat, etc. involving students. The college establishes policies that reflect core values. Code of conduct is prepared for students and staff and everyone should obey the conduct rules.

The affiliating University curriculum is framed with mandatory courses like Professional ethics and human values, Constitution of India, Essence of Indian Traditional Knowledge, as a small step to inculcate constitutional obligations among the students. Major Initiative during last five years

Vigilance Awareness Week: 'Integrity - A way of Life ‘To spread awareness regarding sanitation, living standards of life, and knowing one's personality.

A separate NSS unit is started exclusively to encourage the students and the unit is successfully conducting activities to serve the society.

Beti Bachao, Beti Padhao companion

Guest lectures and workshops are arranged by eminent

personalities to deliver lectures on ethics, values, duties, and responsibilities and on saving the environment. Ethical Values, rights, duties, and responsibilities of citizens are some of the topics that are enlisted in Elocution, debates, and class presentation.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	View File
Any other relevant information	View File

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff 4. Annual awareness programmes on Code of Conduct are organized	**D. Any 1 of the above**

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	View File

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

C U Shah Science College is one of the leading centers of excellence in Ahmedabad. Our college celebrates National and International days enthusiastically every year.

Republic day is celebrated every year on 26th January in the college with great enthusiasm and pride.

Independence Day is also celebrated on 15th August in the college with great enthusiasm. Besides these two national days a number of other national and international days are also celebrated in our institution so that students get knowledge about the great personalities in our political, social, cultural and scientific history such as Mahatma Gandhi, Sardar Vallabhbhai Patel etc.

International Women day is also celebrated in our college on 8th March every year.. The day is celebrated under auspices of women cell (CWDC) of the college. International Yoga day is also celebrated on 21st June every year in the college.

The day aims to raise awareness of many benefits of practicing yoga. It is celebrated to spread awareness about importance and effects of yoga on the health of the people. Teachers day is also celebrated on 5th September every year to celebrate the birth anniversary of Dr. Sarvepalli Radhakrishnan.

The common birthday of Mahatma Gandhi and Lal Bahadur Shastri on 2nd October is commemorated as Swachhta Diwas.The birth anniversary of Sardar Vallabhbhai Patel on 31st October is celebrated as National Unity Day and many more

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	View File
Any other relevant information	View File

7.2 - Best Practices

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

2. Objectives of the Practice C. U. Shah Science College is a Grant in Aid College, affiliated to Gujarat University and managed by The C U Ronak Foundation. The vision of our college is to impart quality education which can contribute to all

round development of the students. The college is determined to achieve its goal for which it continuously engage in introspection along with collaborative teaching learning methods. For this, the Management emphasizes conduction of Internal and Academic audit. The objectives are: 1) To audit annual maintenance contract for various services and bill passing activities.

2) to audit student and teachers' attendance and compilation of results

3) to audit internal marks assessment procedure 3. The Context In today's times, it is a challenge to lead students to academic excellence for all round development. In such a scenario, Academic audit is the best practice to follow. Academic audit is a systematic and scientific process of reviewing the academic system for improvement of quality. This helps to assess the academic performance of both the teachers and the students. It provides self-assessment based on quality principles and promotes integration across programs and disciplines. By conducting academic audit, the accountability of each department is adjudged and the strengths and weakness are known. The audit can help to ensure punctuality, timely finishing of syllabi and understand the result pattern of the students.

File Description	Documents
Best practices in the Institutional web site	View File
Any other relevant information	View File

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

C. U. Shah Science college aims to impart quality education and promote creativity with an emphasis on holistic development of the students. One area where the Institute strongly focuses on, and has a distinctive performance is its teaching/learning process which is thoroughly robust and multidimensional. The Institute website displays Codes of conduct and learning outcomes. They are explained to the students by the facilitators. This knowledge helps teachers and students to set

their goals and strive to achieve them. .The traditional methods of teaching are enhanced with ICT and other innovative and engaging methods so as to keep the students interested in the topic at hand and to increase the interface in the class. Participative and experiential learning are often used. . The college invites learned speakers from the Government, Academia, and Alumni to share their knowledge and interact with students and staff. The Institute has strong norms for discipline and keeps a keen eye on attendance, assignments, submissions and the like. The academic audit conducted annually by the management, promotes a healthy teaching learning atmosphere. The Institute has a big repository of books, journals, periodicals, theses, rare editions, manuscripts, and videos for the use of all staff and students. College encourages participation in sports, cultural and extension activities. The promising results of such surveys over the years have instilled a sense of achievement in the teachers and pride and confidence in the students

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

Next future plan is to ensure formal mentoring of all students across all classes. This would help students to deal with academic stresses and adapt to circumstances with a smile. At Academic level: To integrate crosscutting issues relevant to gender, environment and sustainability. To develop some smart classrooms for effective curriculum delivery. Encourage more participation of UG students in extension activities to sensitize students towards social issues and societal responsibilities. To organize seminars and lectures on waste segregation awareness, not only for students but also for teaching and non teaching employees. Other goals: The activities of placement cell need to be increased so that students gain employment at early stage.