

C. U. SHAH COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by : AICTE, New Delhi)

(Constituent College of C. U. Shah University)



Address for Correspondence

Ahmedabad-Surendranagar Highway,
Near Kotharia Village,
Wadhwan city – 363030

College Website

ccetvbt.org

College E-mail ID

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Phone Number

(02752) – 247712, 247713

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Annual Quality Assurance Report (AQAR)

(Third AQAR for the year 2016-2017)

Submitted to

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
BANGALORE**

2017

The Annual Quality Assurance Report (AQAR) of the IQAC

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. (Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)

Part – A

AQAR for the year (for example 2013-14)

2016-2017

I. Details of the Institution

1.1 Name of the Institution

C.U. SHAH COLLEGE OF ENGINEERING & TECHNOLOGY

1.2 Address Line 1

SURENDRANAGAR-AHMEDABAD HIGHWAY

Address Line 2

NR. KOTHARIYA VILLAGE

City/Town

WADHWAN CITY

State

GUJARAT

Pin Code

363030

Institution e-mail address

ccetvbt@outlook.com

Contact Nos.

02752-247712

Name of the Head of the Institution:

DR. K. H. WANDRA

Tel. No. with STD Code:

02752-247713

Mobile:

9825019080

Name of the IQAC Co-ordinator:

DR. P. H. DARJI

Mobile:

9879191333

IQAC e-mail address:

ccetiqac@rediffmail.com

1.3 NAAC Track ID (For ex. MHCOGN 18879)

GJCOGN18289

OR

1.4 NAAC Executive Committee No. & Date:

(For Example EC/32/A&A/143 dated 3-5-2004.
This EC no. is available in the right corner- bottom
of your institution's Accreditation Certificate)

EC(SC)/01/A&A/092 dated 05/05/2014

1.5 Website address:

ccetvbt.org

Web-link of the AQAR:

ccetvbt.org/ AQAR2016-17.pdf

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	B	2.13	2014	Up to May 04 2019 (05 years)
2	2 nd Cycle	-	-	-	-
3	3 rd Cycle	-	-	-	-
4	4 th Cycle	-	-	-	-

1.7 Date of Establishment of IQAC : DD/MM/YYYY

22/05/2014

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC (*for example AQAR 2010-11 submitted to NAAC on 12-10-2011*)

- i. AQAR 2014-15 submitted to NAAC on 24/12/2015
- ii. AQAR 2015-16 submitted to NAAC on 09/12/2016
- iii. AQAR _____ (DD/MM/YYYY)
- iv. AQAR _____ (DD/MM/YYYY)

1.9 Institutional Status

University State Central Deemed Private Affiliated College Yes No Constituent College Yes No Autonomous college of UGC Yes No Regulatory Agency approved Institution Yes No

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education Men Women

 Urban Rural Tribal

Financial Status Grant-in-aid UGC 2(f) UGC 12B

 Grant-in-aid + Self Financing Totally Self-financing

1.10 Type of Faculty/Programme

Arts Science Commerce Law PEI (Phys Edu)

TEI (Edu) Engineering Health Science Management

Others (Specify)

1.11 Name of the Affiliating University (*for the Colleges*)

CONSTITUENT COLLEGE OF C. U.
SHAH UNIVERSITY

1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc - NIL

Autonomy by State/Central Govt. / University

University with Potential for Excellence UGC-CPE

DST Star Scheme UGC-CE

UGC-Special Assistance Programme DST-FIST

UGC-Innovative PG programmes Any other (*Specify*)

UGC-COP Programmes

2. IQAC Composition and Activities

2.1 No. of Teachers	<input type="text" value="10"/>	
2.2 No. of Administrative/Technical staff	<input type="text" value="03"/>	
2.3 No. of students	<input type="text" value="00"/>	
2.4 No. of Management representatives	<input type="text" value="02"/>	
2.5 No. of Alumni	<input type="text" value="02"/>	
2.6 No. of any other stakeholder and community representatives	<input type="text" value="00"/>	
2.7 No. of Employers/ Industrialists	<input type="text" value="01"/>	
2.8 No. of other External Experts	<input type="text" value="00"/>	
2.9 Total No. of members	<input type="text" value="18"/>	
2.10 No. of IQAC meetings held - Four		
2.11 No. of meetings with various stakeholders:	No. <input type="text" value="04"/>	Faculty <input type="text" value="02"/>
Non-Teaching Staff	<input type="text" value="01"/>	Alumni <input type="text" value="01"/>
Students		Others <input type="text"/>
2.12 Has IQAC received any funding from UGC during the year?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
If yes, mention the amount	<input type="text" value="----"/>	
2.13 Seminars and Conferences (only quality related)		
(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC		
Total Nos.	<input type="text" value="12"/>	International <input type="text" value="00"/>
	National <input type="text" value="00"/>	State <input type="text" value="00"/>
	Institution Level <input type="text" value="12"/>	

(ii) Themes:

1. Industry visits were organized by various departments of institute.
2. Engineer's Day Symposium 2016.
3. Expert talk on "GATE Exam Preparation" were arranged by various departments of institute.
4. Various expert talks on recent technologies were arranged by various department of institute.
5. Various social activities were arranged by institute.

2.14 Significant Activities and contributions made by IQAC

1. Teaching quality improvements.
2. Remedial classes for weak students
3. Organized various Social activities
4. Organized various workshops
5. Arranged various expert lectures

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year

Plan of Action	Achievements
Quality based teaching as well as use of NTPEL Videos in class	Improvement in results and students oral feedback
Social Activities	Various social activities organized by institute.
Various industry visit	Successfully organized by various departments of institute.
Expert talk on "GATE Exam Preparation"	Successfully organized by various departments of institute.
Seminar on Cloud Computing	Successfully organized on 01/07/17 at department level
Workshop on Applied CS with Android	Successfully organized on 15,16,21,22, and 30 of July 2016 at department level.
Engineer's Day Symposium 2016	Successfully organized on 15/09/16 at department level.
Expert talk on Working culture competition in India and Foreign	Successfully organized on 20/12/16 at department level.
Awareness program on CADD QUEST 2017	Successfully organized on 10/02/17 at department level
The Indian Army information campaign organized by Golden Katar Artillery Brigade at Dhrangadhara Military Station	Successfully organized on 28/02/17 by institute.
Seminar on Modeling, Manufacturing, Analysis tool in Mechanical Industries	Successfully organized on 03/03/17 at department level
Training Session on Road Safety	Successfully organized on 09/03/17 by institute.

Above mentioned list of activities is a sample ISTE student activities. For more detail please refer Annexure III

2.16 Whether the AQAR was placed in statutory body Yes No

Management Syndicate Any other body

Provide the details of the action taken

Approved by Management

Part – B

Criterion – I

I. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	NA	NA	NA	NA
PG	06	00	06	00
UG	08	00	08	00
PG Diploma	NA	NA	NA	00
Advanced Diploma	NA	NA	NA	NA
Diploma	NA	NA	NA	NA
Certificate	NA	NA	NA	NA
Others	NA	NA	NA	NA
Total	14	00	14	00
Interdisciplinary	NA	NA	NA	NA
Innovative	NA	NA	NA	NA

- 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options: Elective Option
(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	All programmes Semester pattern
Trimester	00
Annual	00

1.3 Feedback from stakeholders* Alumni Parents Employers Students **Y**
(On all aspects)

Mode of feedback : Online Manual **Y** Co-operating schools (for PEI)

**Please provide an analysis of the feedback in the Annexure: Annexure I*

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

C.U. Shah College of Engineering and Technology is now constituent college of the C. U. Shah University. We have designed syllabi of all branches and syllabi all syllabi have been approved by the Board of Studies of respective branches. All the syllabi are designed to fulfil the latest technological demands of the engineering field as well as industries.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

No

Criterion – II**2. Teaching, Learning and Evaluation**

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
31	27	02	02	--

2.2 No. of permanent faculty with Ph.D.

06

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
02	--	--	--	01	--	14	--	17	--

2.4 No. of Guest and Visiting faculty and Temporary faculty

20 (Adhoc)	00 (Visit)	10 (Temp.)
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2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	00	01	00
Presented papers	07	01	00
Resource Persons	00	01	00

2.6 Innovative processes adopted by the institution in Teaching and Learning:

- NPTEL Video Lecture
- Industrial Visit
- Demonstration of Equipment
- Innovative of Industrial Development Programme(IDP) & User Define Programme(UDP)
- IIT Bombay video lecture series and online Exam

2.7 Total No. of actual teaching days during this academic year

235

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

- Prelim Examination
- Bar coding
- Transparent marking system

- MCQ type exam
- Open Book Examination

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop	07	00	02
---	----	----	----

2.10 Average percentage of attendance of students	75
---	----

2.11 Course/Programme wise distribution of pass percentage :

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
Information Technology	19	4	9	3	NA	3
Computer Engineering (UG)	75	14	37	17	NA	7
Electronics & Communication Engineering (UG)	08	04	01	03	NA	00
Bio Medical Engineering	--	---	---	---	---	--
Instrument & Control	57	08	18	19	NA	12
Civil Engineering	31	04	08	17	NA	02
Mechanical Engineering (UG)	68	12	31	18	NA	07
Automobile Engineering	47	06	16	19	NA	06
Electrical & Electronics Engineering	21	02	05	13	NA	01
Computer Engineering (PG)	07	04	03	00	NA	00
Electronics & Communication Engineering (PG) (M.Tech in EC)	05	05	00	00	NA	00
Electronics & Communication Engineering (PG) (M.Tech in VLSI)	--	--	--	--	--	--
Mechanical Engineering (PG)	02	01	00	01	NA	00

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes :

1. Plans the academic calendar semester wise.
2. Plans the academic and non-academic activities
3. Analysis the output and feedback
4. Encourage the faculty members to take active participation in paper publications.
5. Developed the department wise plan to organise workshop/FDP/Conference etc.
6. Suggest and plan the future task

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	NIL
UGC – Faculty Improvement Programme	NIL
HRD programmes	62
Orientation programmes	06
Faculty exchange programme	NIL
Staff training conducted by the university	06
Staff training conducted by other institutions	05
Summer / Winter schools, Workshops, etc.	01
Others	06

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of Permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	25	00	01	00
Technical Staff	15	00	02	00

Criterion – III**3. Research, Consultancy and Extension**

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

IQAC organize regular sessions for Teachers and Research Scholars for various aspects of Research like importance of Research, various schemes for obtaining Grants for the Research Work, writing research proposal, etc. A Number of teachers are pressuring their research degree in the Institute and to facilitate the research work university has started an Incubation Centre.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	NIL			
Outlay in Rs. Lakhs				

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	NIL			
Outlay in Rs. Lakhs				

3.4 Details on research publications

	International	National	Others
Peer Review Journals	42	00	00
Non-Peer Review Journals	00	00	00
e-Journals	00	00	00
Conference proceedings	04	02	00

3.5 Details on Impact factor of publications:

Range 1 to 5 Average 3.12 h-index 3 Nos. in SCOPUS 8

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	NIL	NIL	NIL	NIL
Minor Projects	NIL	NIL	NIL	NIL
Interdisciplinary Projects	NIL	NIL	NIL	NIL

Industry sponsored	01	GIDS	6lakhs	3 Lakhs
Projects sponsored by the University/ College	NIL	NIL	NIL	NIL
Students research projects <i>(other than compulsory by the University)</i>	NIL	NIL	NIL	NIL
Any other(Specify)	NIL	NIL	NIL	NIL
Total	01	GIDS	6lakhs	3 Lakhs

3.7 No. of books published i) With ISBN No. **02** Chapters in Edited Books :00

ii) Without ISBN No. 00

3.8 No. of University Departments receiving funds from : NIL

UGC-SAP	<input type="text" value="NIL"/>	CAS	<input type="text" value="0"/>	DST-FIST	<input type="text" value="0"/>
DPE	<input type="text" value="0"/>			DBT Scheme/funds	<input type="text" value="0"/>

3.9 For colleges	Autonomy	<input type="text" value="0"/>	CPE	<input type="text" value="0"/>	DBT Star Scheme	<input type="text" value="0"/>
	INSPIRE	<input type="text" value="0"/>	CE	<input type="text" value="0"/>	Any Other (specify)	<input type="text" value="0"/>

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution	Level	International	National	State	University	College
	Number	NIL				
	Sponsoring agencies					

3.12 No. of faculty served as experts, chairpersons or resource persons

3.13 No. of collaborations International National Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs :

From Funding agency From Management of University/College
 Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	NIL
	Granted	
International	Applied	
	Granted	
Commercialised	Applied	
	Granted	

3.17 No. of research awards/ recognitions received by faculty and research fellows
Of the institute in the year

Total	International	National	State	University	Dist	College
Nil						

3.18 No. of faculty from the Institution who are Ph. D. Guides and students registered under them

3.19 No. of Ph.D. awarded by faculty from the Institution

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF SRF Project Fellows Any other

3.21 No. of students Participated in NSS events:

University level State level

National level International level

3.22 No. of students participated in NCC events:

University level State level

National level International level

3.23 No. of Awards won in NSS:

University level	<input type="text" value="0"/>	State level	<input type="text" value="0"/>
National level	<input type="text" value="0"/>	International level	<input type="text" value="0"/>

3.24 No. of Awards won in NCC:

University level	<input type="text" value="0"/>	State level	<input type="text" value="0"/>
National level	<input type="text" value="0"/>	International level	<input type="text" value="0"/>

3.25 No. of Extension activities organized

University forum :	<input type="text" value="10"/>	College forum	<input type="text" value="05"/>
NCC	<input type="text" value="00"/>	NSS	<input type="text" value="00"/>
		Any other	<input type="text" value="00"/>

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

As part of Social Responsibility a number of program has been organized for the “Swachta Abhiyan”. Institute has organized annual Blood Donation Camp and Thelesimia Awareness Camp for the Students. Tree Plantation Drive was carried out in the Institute.

Faculty of Management Studies conducted lectures on ‘Cashless Economy and E-transactions’ with an objective to help students to understand the concept of 'Cashless Economy' and help them to use 'e-transaction', in different colleges within the district in the first week of January, 2017.

Faculty of Management Studies conducted lectures on ‘Career Counselling and Career Options’ with an objective to help students to understand the importance of further Career Progression and guidance of selection of the future career opportunities in different colleges within the district in the first week of January, 2017.

Criterion – IV**4. Infrastructure and Learning Resources**

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	16.34 Acres 31,007.53 Square Meters (Build up Area)	-	Donation + Tuition Fees	16.34 Acres 31,007.53 Square Meters (Build up Area)
Class rooms	35	-		35
Laboratories	88	-		8
Seminar Halls	04	-		04
Drawing Hall	01	-		01
Tutorial Room	12 + 08 (UG + PG)	-		20
No. of important equipments purchased (1-0 lakh) during the current year.	26	-		26
Value of the equipment purchased during the year (Rs. in Lakhs)	25669515/-	-		25669515/-
Others	-	-		-

4.2 Computerization of administration and library

- Library is fully computerized with barcode technology.
- The institute has its own digital repository and online news archives.

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	25882	8058569	427	256089	26309	8314658
Reference Books	1009	403600	8	6930	1017	410530
e-Books	450	-	-	-	450	-
Journals	252	430383	75	154024	327	584407
e-Journals	26830	317395	3365	80500	30195	397895
Digital Database	-	-	-	-	-	-
CD & Video	250	50000	-	-	250	50000

Others (specify)						
------------------	--	--	--	--	--	--

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centers	Computer Centers	Office	Departments	Others
Existing	777	605	-	-	32	18	10	112
Added	-	-	-	-	-	-	-	-
Total	777	605	-	-	32	18	10	112

4.5 Computer, Internet access, training to teachers and students and any other programme for technology up gradation (Networking, e-Governance etc.)

Round the clock Internet Access is provided through a dedicated leased line 30 mbps connection. The whole campus is connected through Wi-fi.

For bandwidth management, network management and firewall, Cyber-roam corporate client is installed in the campus.

Access to books and journals is available on-line through college library portal.

Online Examination, online attendance, online admission system, student feedback system as well as for the payroll system software are available.

4.6 Amount spent on maintenance in lakhs :

i) ICT	8.57 Lakhs
ii) Campus Infrastructure and facilities	51.80 Lakhs
iii) Equipments	17.88 Lakhs
iv) Others	4.83 Lakhs
Total :	83.08 Lakhs

Criterion – V**5. Student Support and Progression**

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

IQAC is one of the active cells of the institute. It caters the needs of the students for the all-round development of their personality and growth. IQAC organizes various events during the year for the

5.2 Efforts made by the institution for tracking the progression

There is ample provision for exposure of the students to others institutions of Higher learning/ corporate business houses through

- Industrial Visits
- Participation in inter college competition
- Visit to exhibitions and trade fares
- Carrier Development Program
- Pre placement talks
- Expert lectures
- Interaction with entrepreneurs/industrial

During every semester the institution spares Two hours per week for each branch and class, where the coaching is given on logical reasoning, Aptitude and verbal. All the students are taking benefit of it and enjoy learning. Also, the students are evaluated by conducting online quizzes and assignments.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
1130	91	---	---

(b) No. of students outside the state

02

(c) No. of international students

00

	Men		Women	Women	
	No	%		No	%
	1027	84.11		194	15.89

	Last Year						This Year					
	General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
UG	718	89	3	491	2	1303	590	105	2	432	1	1130
PG	62	9	1	21	0	93	56	11	1	23	0	91

Demand ratio NA Dropout %

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

We are motivating students for appear in competitive examination like GRE, GMAT, TOFEL, IELTS, Engineering Service Examinations, State Electricity Board Examinations, UGC net, GATE, Defense Services Examinations etc.

No. of students beneficiaries

ALL

5.5 No. of students qualified in these examinations

NET	00	SET/SLET	00	GATE	04	CAT	00
IAS/IPS etc	00	State PSC	00	UPSC	00	Others	00

5.6 Details of student counselling and career guidance

The students are assigned under the faculties for personal counseling and monitoring.

Students per counselor - 20

Mode of counseling - Telephonic Talk and Personal Meeting with students as well as with parents

Reporting - Monthly Report to Head of Department

Area - Personal problem, Grievances and Motivation for better performance

Special Training Session before the ON and OFF Campus Interviews.

Industrial Visit for each Semester

Expert Lectures by Industry Experts

Special Skill Development Sessions for Students

No. of students benefitted

ALL

5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
09	200	67	80

5.8 Details of gender sensitization programmes

Women Development Cell and Women Harassment at working place Cell are working for the gender sensitization. Note: The list of the events are given in Annexure - II

5.9 Students Activities (Annexure III)

5.9.1 No. of students participated in Sports, Games and other events

State/ University level National level International level

No. of students participated in cultural events

State/ University level National level International level

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports: State/ University level National level International level

Cultural: State/ University level National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	8	40,000
Financial support from government	124	63,26,590
Financial support from other sources	NIL	NIL
Number of students who received International/ National recognitions	NIL	NIL

5.11 Student organised / initiatives

Fairs : State/ University level National level International level

Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

Marley, we are arranging Blood Donation Camp, Thalassemia Camp and providing first aid treatment to the students.

We have a strong association with C U Shah Medical College and Hospital which is running since couple of years and well known college within the Gujarat state.

5.13 Major grievances of students (if any) redressed: NIL

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

VISION

- The Vardhman Bharti Trust, Wadhwan city, committed to excellence in education, strives to take the students to their highest academic potential, generating in them self-esteem, respect for themselves and for others, harmony and tolerance in a structured, "Gurukul" like family oriented environment, that is to be achieved by committed faculty and staff members providing their students, on duly acknowledge student's experience and knowledge, an atmosphere persons with character, thoughtfulness, positive contribution to society, and above all, national minded and nation making.
- In view of the above, the Trust, it is crystal clear that, is fully dedicated to only educational activities without profiteering, i.e. no loss no profit, charitable base.
- Therefore, the Trust is charitable one serving in the public interests not as a business but as a service to the society. Hence, educational activities of the Trust cannot be considered as business.

MISSION

- Education is an engine of economy. Committed, students-centered, local and global need-based quality education with minimum costs at all levels - nursery, primary to post doctoral - ensures sustainable development of the society and enhances both the standard of living and quality of life of man, the last man of the society.

6.2 Does the Institution has a management Information System

NO PLEASE

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

- The core committee of the university revises the curriculum from time to time depending upon the changing global scenario.
- Teachers, as member representative of core committee of the university contact experts, research organization and industry to get their inputs to supplement the university curriculum.
- Teachers, as member representative of core committee of the university share their views about enriching the curriculum and evaluation system, during the core committee of the university meetings.
- The college interacts with various industries fundamentally through its Industry Institute Interaction Cell (IIIC) which serves as a forum for interaction between the experts from industries and faculty members.
- As per the requirement of the subject and area, Head of departments, faculty and students interact with these beneficiaries.
- Faculty members who are the research guides of University, interact with research committee members of University and give feed-back to other faculty members.
- Institute invites experts from industry and academia by organizing the conferences and workshops.
- The eminent personalities from various fields have delivered and shared their experiences for faculty and students.

To supplement the University's curriculum to ensure that the academic programmes and Institution's goals and objectives are integrated, the following activities are carried out:

- The University curriculum is followed. If there are new developments and new related material is found, every effort is made to bring these to the students.
- The college ensures that the academic program and the institutional goals and objectives are integrated through various rigorous co-curricular and extra-curricular activities incorporated into the academic calendar.
- The academic calendar is prepared by the academic committee at the beginning of each semester, by providing slots for incorporating various enrichment sessions. Value added and skill development are organized by Institute.
- Co-curricular activities like paper, project, and quiz competitions are organized for students.
- Institute organizes paper presentation, project display, mathematical quiz, poster competition, gaming and Robotics competitions for student to get acquainted with state of arts technology
- Students are encouraged for Industrial visits and intern programs.
- Online lectures of National Programme on Technology Enhanced Learning (NPTEL) are widely used for the enrichment of the students.
- Extra laboratory experiment apart from curriculum requirement is provided in various laboratories.

The institute strives to maintain the teaching-learning process student centric. Emphasis is laid more on practical aspects of the subjects rather than theoretical ones. Seminars, projects, group discussions are organized at regular intervals to enhance the learning experience of students and hence bring about holistic development of students. Personalized attention is given to each student by dividing them into small groups for projects and seminar work. Individual guidance is also provided to each student during weekly interaction of class counsellors with the class. Experts are also invited from leading academic organisations and from industry to guide the students in related fields.

6.3.3 Examination and Evaluation

The management gives full authority for maintaining high standards in the evaluation and examination pattern of the institute. It also provides avenues to the academic staff to improvise the evaluation methodologies in response to changing circumstances. The assessment of the intended leaning outcomes is done by both External and internal method.

- The internal methods are Mid Semester Exam, Class test, Assignments, Tutorials, University External Examination, Lab Performance, Viva –Voce and Result analysis.
- The external methods are Class Questioning, Student Feedback, feedback from Employer, Feedback from Parents, University Positions and Publications of Students.

6.3.4 Research and Development

A dedicated R & D cell has been setup in the institute. The institute motivate the faculty members to undertake research activities such as attending faculty development programmes, attending and delivering expert lectures, organizing workshops, seminars and conferences, providing consultancy to industry etc. Faculties are encouraged to publish technical papers in national and international conferences for which they are even provided financial assistance.

6.3.5 Library, ICT and physical infrastructure / instrumentation

Library Development:

There is a library committee responsible for purchase of books, journals and other reading material. The committee is formed every year with faculty nominated and representatives from the departments. The librarian is the Ex-Officio secretary member of the committee. The departmental representative compiles suggestions for new titles to be purchased from the subject teachers and sends to librarian for procurement. The committee takes all decisions regarding books selection, magazines and journals, news papers and periodicals procurements. Reprographic facility, Automation of Library, internet/Wi-Fi facility and purchase of e- journals and optimum utilization of library are also among the responsibility of the committee. Suggestions are welcome from students regarding working hours and borrowing facilities for finalization of decisions.

ICT:

The college has well established and fully functional ICT based learning system with all the classrooms equipped with latest multimedia projectors and Wi-fi enabled campus as well as hostels.

The ICT services have proven to be a facilitator for the students as they can access the following information all times through the internet.

1. All important notices/circulars
2. Upcoming events
3. Syllabus
4. Academic calendar
5. Teaching schedule
6. Assignments and dates of submission
7. Examination schedule
8. University Results
9. Placement derives
10. Contacts of key persons

6.3.6 Human Resource Management

The human resource management is taken care by the administrative section. It undertakes issues pertaining to

- Recruitment
- Staff welfare
- Incentives/enhancing salary
- Appraisals
- Increments
- Leave rules and records.
- Gratuity
- Skill up gradation and training of non teaching staff

6.3.7 Faculty and Staff recruitment

- Experienced & qualified faculties from other institutions as well as experts from industry are attracted by offering them high salaries and perks.
- For faculty retention too eligible staff members are provided incentives and promotions as & when required.
- High remuneration is being paid to Visiting Faculties as well as Industry Experts for conducting seminars, workshops, extra classes etc.

6.3.8 Industry Interaction / Collaboration

A dedicated Industry-Institute Interaction Cell has been setup which oversees the function of interaction with the Industry. Meetings with representatives from various Industrial Corporations, Industries and other stakeholders are regularly organized in order to understand the needs of the industry so that necessary skills can be imparted to the students to make them industry ready. The Industry-Institute Interaction Cell also includes an active Training & Placement Cell which pursues the very important role of Student Placement by interacting with potential employers and understanding their needs.

6.3.9 Admission of Students

The admissions for students are done at the state level through the Admission Committee for Professional Courses, Government of Gujarat, Ahmedabad and the institute does not have any say in formulating the procedures and methodologies to be followed for admission programmes.

6.4 Welfare schemes for

Teaching	01
Non teaching	01
Students	

6.5 Total corpus fund generated

NIL

6.6 Whether annual financial audit has been done

Yes No

6.7 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	NO	---	Yes	C.U.Shah University
Administrative	NO	---	Yes	C.U.Shah Univeristy

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes Yes No

For PG Programmes Yes No

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

Evaluation Reforms:

1. After completion of the each internal examination paper the answer sheets are immediately given the concerned subject teacher who has to display the result of that subject within 5 working days.
2. After declaring the result there is a open end discussion in the class and students are satisfied by showing their accessed answer sheets.
3. After overcoming the all grievance (if any) the final results are displayed in online portal of the institute.

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

The institute is affiliated to C.U.Shah University and hence this aspect is dealt at the university level and is outside the purview of the institute

6.11 Activities and support from the Alumni Association

The students who have completed their UG or PG are asked to fill the alumni Association form through which we are taking the students upto date information including his current position (if employed). Following are the major advantage obtained from this are:

- As and when required top students are called to contribute their knowledge and experience.
- At the time of placement/training the alumni students are requested to support & assist the institute.

6.12 Activities and support from the Parent – Teacher Association

The institute conducts regular interaction with parents in matters concerning to students' individual and collective development, examination patterns and results, student attendance system, teaching-learning methodology etc. The parents are regularly informed regarding the academic progress of their child/ward by means of letters, SMS, telephonic conversations, personal meetings etc. and suggestions regarding enhancement of the teaching learning process arising from those meetings are actively considered and many of them are implemented as & when feasible. Parents association forms a core part of the institute's policy of taking all the stakeholders into consultation while framing new & improved policies for overall improvement in the quality of education being imparted.

6.13 Development programmes for support staff

1. The faculty is encouraged to attend FDP (Faculty Development Programmes) and Short Term Courses.
2. Guest lectures by experienced scientist and academicians are arranged.
3. The departments are provided grant to conduct national level seminars conferences which are useful for Faculty Development.
4. The institution encourage faculty to upgrade their qualification.
5. Faculty encouraged taking up projects for industries.
6. Technical staff is also encouraged for skill up gradation.

6.14 Initiatives taken by the institution to make the campus eco-friendly

- All important communications and circulars are circulated in soft copy format in order to move towards the concept of establishing 'Paperless Office'.
- Efficient utilization of water and electricity is undertaken in order to minimize energy wastage.
- Tree plantation drive is conducted on all important events and occasions of national importance like Independence Day, Republic Day, etc.
- The campus boasts of a variety of species of flowering and non-flowering plants which gives a pleasing appearance to the campus.

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

Seva Project, Awareness program on various grounds, Online lecture plan and laboratory schedule, Social activities, practical hands on training for inter-department and inter-college.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

1. SPR (Student Progress Report) and APR (Academic Progress Report) are generated each month to supervise regularity of students and teaching.
2. Parents of students with less attendance are called to meet in person and appropriate counseling is provided by Class counselor and H.O.D.
3. During paper showing time of sessional exam, the concerned teachers are providing the solution of questions with interactive session.

7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

1. Concept of Mentor for each group of students help to improve overall performance of the Institute.
2. Career Counseling lectures by experts helps students to be focused on the skill set required by the industry.

7.4 Contribution to environmental awareness / protection : NIL

7.5 Whether environmental audit was conducted? Yes No

7.6 Any other relevant information the institution wishes to add. (For example SWOT Analysis)

Strengths:

1. Well-equipped class rooms with Projector, Computer, Audio -Visual Equipment, Mice Systems.
2. Learned and qualified staff members with diversified specialization.
3. 24 X 7 Internet Facility, Boys-Girls Separate Common Room for reading.
4. Library with ample of books, volumes and journals

Weaknesses:

1. No consultancy work
2. International student exchange program should be started.
3. Alumni association needs more development.

Opportunities :

1. Institute is looking forward to initiate consultancy support.
2. MoUs must be signed with Industries for better field experience for students.
3. Institute must apply for Research Grants provided by Government Organizations.
4. Institute must establish mechanism to support inter disciplinary Research.
5. MoUs must be signed for the placement of students.
6. Strategic alliances with the National Institution.

Challenges:

1. Competition.
2. Placement
3. To produce maximum Entrepreneurs.
4. Faculties need to remain updated with the latest technologies and trends.
5. Maintain academic quality.

8. Plans of institution for next year

- | |
|--|
| <ol style="list-style-type: none">1. Research projects - Educational and Social research project will be taken into the consideration.2. Funded Research projects - Institute will try to get funded research projects from the related agencies.3. Some innovative practices such as "online test and teaching strategies" will be included after the conduction of Seminar and workshop in the area of teaching learning process.4. On line objective type test will be conducted for assessing the progress of students. |
|--|

Name _____

Name _____

Signature of the Coordinator, IQAC

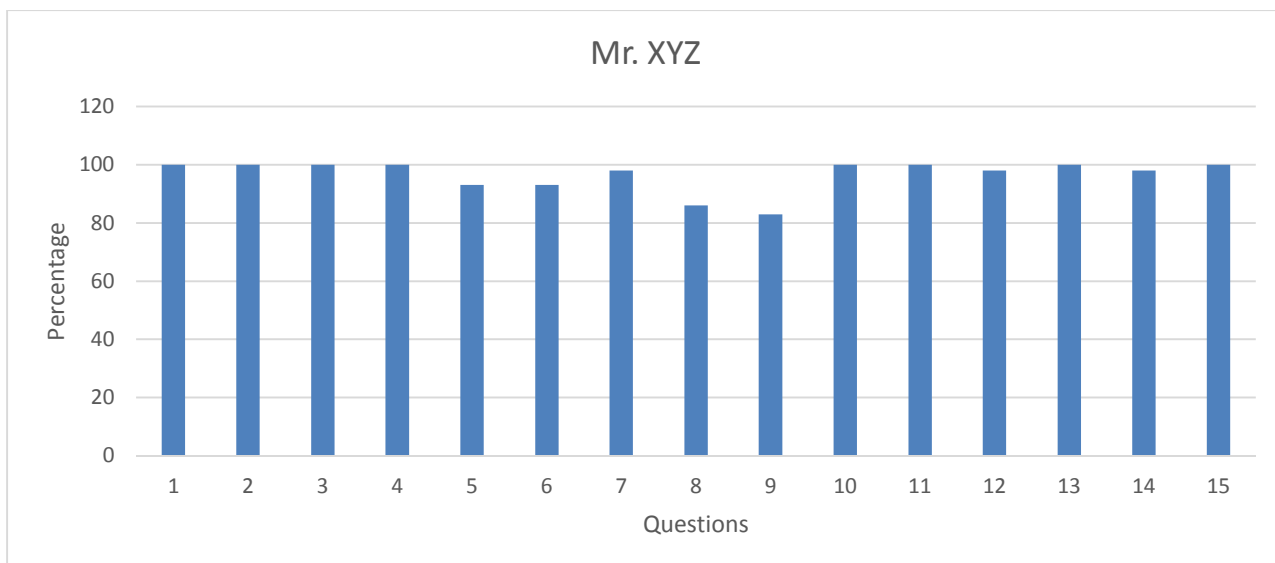
Signature of the Chairperson, IQAC

Annexure I**Feedback from students****1) Feedback Questionnaire**

Question	Out of 10						
	FOU (DKL)	OS (DKL)	OOPJ (SAG)	ECT (VKJ)	SAD (SAD)	DM (PVS)	DM (AKP)
1. Knowledge base of the teacher(as perceived by you)							
2. Communication Skills (In terms of articulation and comprehensibility)							
3. Sincerity / Commitment of Teacher							
4. Interest generated by the Teacher							
5. Ability to integrate course material with environment / other issues, to provide a broader perspective							
6. Ability to integrate content with other issues							
7. Accessibility of the teacher in and out of the class (includes availability of the teacher to motivate further study and discussion outside class).							
8. Ability to design quizzes / Tests / Assignments / Examinations and Projects to evaluate students understanding of the course.							
9. Attitude of Teacher							
10. Whether laboratory sessions have been conducted as per the scheme mentioned in the journal?							

11. Indicate the percentage of practical's actually performed.						NA	NA
12. Was the teacher positive in terms of conducting extra lectures/laboratory sessions?							
13. Whether fair evaluation of experiments has been done?						NA	NA
14. If quizzes/assignments have been conducted?							
15. If quizzes/assignments have been conducted, was the evaluation fair?							
Total							

2) Faculty Feedback (Sample)



Remarks of Staff : _____

Remarks of HOD : _____

Remarks of Director (A) : _____

Remarks of Principal : _____

3) Faculty Feedback Summary**FACULTY FEEDBACK REPORT****C.U.SHAH COLLEGE OF ENGG. & TECH.**

Faculty Name: Faculty of Technology &
Engineering
Branch:
EC

Semester : IV

Class :
4TH

	Subject	Faculty Name	Question No.															Average (%)
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
LECTURE	EM-II	AKP	100	100	100	100	93	93	98	86	83	100	100	98	100	98	100	97
		PVS	94	93	93	95	91	90	91	84	83	100	100	88	100	94	96	93
	MPA	DNK	80	69	84	86	85	75	73	76	69	100	100	83	100	85	91	84
	LIC	BHN	98	98	98	98	98	95	99	99	99	100	100	98	100	95	100	98
	ACM	KMP	100	100	100	100	99	96	100	100	100	100	100	100	100	100	100	100
	CSE	DHS	95	91	100	98	99	99	100	98	100	100	100	94	100	91	100	98
LAB	MPA	DNK	100	83	100	83	97	90	87	83	100	86	83	100	83	92	100	91
	LIC	BHN	100	93	100	100	100	97	100	97	100	99	100	96	99	96	100	98
	ACM	HID	93	90	100	100	100	87	83	100	100	100	96	94	98	100	100	96
	CSE	DHS	100	83	100	100	100	93	100	93	100	94	94	86	98	86	100	95
	SDT	RJA	100	100	100	100	100	100	100	100	100	100	100	100	100	100	97	100

Annexure - II**(List of Events organized)**

Sr. No.	Detail of program	Date of program	Number of participants
1	Training to understand Sex, Gender, Patriarchy and Gender power relations in collaboration with GRC, Ahmedabad	21 February, 2017	250
2	International Women's Day Celebration	22-23 February, 2017	320
3	Short hand Training cum International Yoga day celebration	21 June, 2017	80

ANEXTURE:III**LIST OF ISTE/IQAC ACTIVITIES FOR STUDENTS**

Sr. No.	Title of the Activity	Date	Duration (No. of Days)	Nature of Activity (Local / State / National)	No. of Participants	Name of Coordinator	Funding Agency If any	Remarks
1.	Seminar on Career development after Diploma Studies	13 / 04 / 2016	01	Local	30	Ms. V. A. Parekh Mr. S. A. Gadhiya Mr. S. S. Parmar	No	
2.	Workshop on MVA Azure Course	23 / 05 / 2016	01	Local	205	Ms. V. A. Parekh Mr. S. A. Gadhiya Mr. S. S. Parmar	No	
3.	Google Pre-workshop Seminar	14 / 06 / 2016	01	Local	110	Ms. V. A. Parekh Mr. S. A. Gadhiya Mr. S. S. Parmar	No	
4.	Seminar on Android Technology	24 / 06 / 2016	01	Local	70	Ms. V. A. Parekh Mr. S. A. Gadhiya Mr. S. S. Parmar	No	
5.	Seminar on Cloud Computing	01 / 07 / 2016	01	Local	50	Ms. V. A. Parekh Mr. S. A. Gadhiya Mr. S. S. Parmar	No	
6.	Expert talk on GATE 2017 Preparation Strategy	14 / 07 / 2016	01	Local	37	Prof. (Dr.) P. H. Darji Mr. R. L. Patel Mr. A.N. Rathour	No	
7.	Expert talk on GATE 2017 Awareness Program	16 / 07 / 2016	01	Local	24	Prof. (Dr.) P. H. Darji Mr. R. L. Patel	No	
8.	Workshop on Applied CS with Android	15,16,21,22, and	05	Local	40	Ms. V. A. Parekh	No	

Sr. No.	Title of the Activity	Date	Duration (No. of Days)	Nature of Activity (Local / State / National)	No. of Participants	Name of Coordinator	Funding Agency If any	Remarks
		30 of July 2016				Mr. S. A. Gadhiya Mr. S. S. Parmar		
9.	Industrial visit at AMTS Workshop Transport House, Ahmadabad	22 / 08 / 2016	01	Local	40	Prof. (Dr.) P. H. Darji Mr. M. H. Pitroda	No	
10.	Industrial visit at AMTS Workshop Transport House, Ahmadabad	23 / 08 / 2016	01	Local	24	Prof. (Dr.) P. H. Darji Mr. M. H. Pitroda	No	
11.	Industrial visit at AMTS Workshop Transport House, Ahmadabad	14 / 09 / 2016	01	Local	42	Ms. C. H. Patel Mr. M. H. Pitroda	No	
12.	Industrial visit at AMTS Workshop Transport House, Ahmadabad	15 / 09 / 2016	01	Local	17	Ms. C. H. Patel Mr. M. H. Pitroda	No	
13.	Engineer's Day Symposium 2016	15 / 09 / 2016	01	Local	140	Prof. (Dr.) P. H. Darji Mr. R. L. Patel Mr. B. J. Patel	No	
14.	Seminar on PHP Technology	22 / 11 / 2016	01	Local	70	Ms. V. A. Parekh Mr. S. A. Gadhiya Mr. S. S. Parmar	No	
15.	Seminar on Web Technology	25 / 11 / 2016	01	Local	70	Ms. V. A. Parekh Mr. S. A. Gadhiya Mr. S. S. Parmar	No	
16.	Seminar on Web Technology and Cloud Computing	28 / 11 / 2016	01	Local	70	Ms. V. A. Parekh Mr. S. A. Gadhiya Mr. S. S. Parmar	No	

Sr. No.	Title of the Activity	Date	Duration (No. of Days)	Nature of Activity (Local / State / National)	No. of Participants	Name of Coordinator	Funding Agency If any	Remarks
17.	Expert talk on Working culture competition in India and Foreign	20 / 12 / 2016	01	Local	59	Prof. (Dr.) P. H. Darji Mr. R. L. Patel	No	
18.	Industrial visit at Captain Tractor, Rajkot	30 / 12 / 2016	01	Local	31	Prof. (Dr.) P. H. Darji Mr. B. J. Patel	No	
19.	Industrial Visit at GFSU, Gandhinagar	06 / 01 / 2017	01	Local	54	Ms. V. A. Parekh Mr. S. A. Gadhiya Mr. K. R. Rarhod Ms. H. H. Dangi Mr. S. S. Parmar	No	
20.	Expert talk on "GATE Exam Preparation"	20 / 01 / 2017	01	Local	60	Ms. V. A. Parekh Mr. S. A. Gadhiya Mr. S. S. Parmar	No	
21	Industrial visit at GSECL Wanakbori Thermal Power Plant, Wanakbori	25 / 01 / 2017	01	Local	47	Prof. (Dr.) P. H. Darji Mr. M. H. Pitroda	No	
22	Industrial visit at GSECL Wanakbori Thermal Power Plant, Wanakbori	25 / 01 / 2017	01	Local	46	Prof. (Dr.) P. H. Darji Mr. M. H. Pitroda	No	
23	Expert talk on "Angular JS"	02 / 02 / 2017	01	Local	50	Ms. V. A. Parekh Mr. S. A. Gadhiya Mr. S. S. Parmar	No	
24	Industrial visit at Thermal Power Plant, Gandhinagar	08 / 02 / 2017	01	Local	37	Prof. (Dr.) P. H. Darji Mr. M. H. Pitroda	No	
25	Awareness program on CADD QUEST 2017	10 / 02 / 2017	01	Local	94	Prof. (Dr.) P. H. Darji Mr. R. L. Patel Mr. A.N. Rathour	No	

Sr. No.	Title of the Activity	Date	Duration (No. of Days)	Nature of Activity (Local / State / National)	No. of Participants	Name of Coordinator	Funding Agency If any	Remarks
26	The Indian Army information campaign organized by Golden Katar Artillery Brigade at Dhrangadhara Military Station	28 / 02 / 2017	01	Local	150	Prof.(Dr.)K.H.Wandra Mr. J. C. Acharya Mr. A.N. Rathour	Golden Katar Artillery Brigade at Dhrangadhara Military Station	
27	Seminar on Modeling, Manufacturing, Analysis tool in Mechanical Industries	03 / 03 / 2017	01	Local	84	Prof. (Dr.) P. H. Darji Mr. R. L. Patel Mr. A.N. Rathour	No	
28	Training Session on Road Safety	09 / 03 / 2017	01	Local	100	Prof.(Dr.)K.H.Wandra, Mr. S. A. Gadhiya, Mr. K. R. Rarhod Mr. S. S. Parmar	Mahi Milk, Surendranagar	