

ANNUAL QUALITY ASSURANCE REPORT (AQAR)

2017-2018

Submitted by



Sarvodaya Kelavani Samaj managed

**SHREE MANIBHAI VIRANI AND SMT. NAVALBEN
VIRANI SCIENCE COLLEGE (AUTONOMOUS), RAJKOT**

Affiliated to Saurashtra University, Rajkot

“Yogidham Gurukul”, Kalawad Road, RAJKOT - 360 005 (Gujarat)

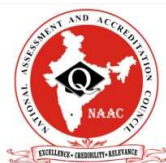
Phone: +91-281-2562681

E-mail: principal@vsc.edu.in, admin@vsc.edu.in | Website: www.vsc.edu.in

Track ID: GJCOGN13267

EC/66/RAR/046 dated 21-2-2014

Submitted to



NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

(An Autonomous Institution of the University Grants Commission)

P.O. Box No. 1075, Nagarbhavi, Bangalore – 560 072, Karnataka

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

1. Details of the Institution

1.1 Name of the Institution

Shree Manibhai Virani and Smt. Navalben Virani Science College (Autonomous)

1.2 Address Line 1

“Yogidham Gurukul”,

Address Line 2

Kalawad Road,

City/Town

Rajkot

State

Gujarat

Pin Code

360005

Institution e-mail address

principal@vsc.edu.in

Contact Nos.

09824803333

Name of the Head of the Institution:

Dr. K. D. Ladva

Tel. No. with STD Code:

0281-2562681

Mobile:

09824803333

Mr. R. S. Tank

Name of the IQAC Co-ordinator:

Mobile:

09825114015

IQAC e-mail address:

rstank@vsc.edu.in

1.3 NAAC Track ID (For ex. MHCOGN 18879)

GJCOGN 13267

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/66/RAR/046 dated 21-2-2014

1.5 Website address:

www.vsc.edu.in

Web-link of the AQAR:

http://vsc.edu.in/wp-content/uploads/bsk-pdf-manager/aqar-2017-18_14.pdf

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	'A'	-	2007	2012
2	2 nd Cycle	'A'	3.28	2014	2019
3	3 rd Cycle	Not Applicable			
4	4 th Cycle	Not Applicable			

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

06/08/2007

1.8 AQAR for the year (for example 2010-11)

2017-18

1.9 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 2013-14 submitted to NAAC on 21/12/2018
- ii. AQAR 2014-15 submitted to NAAC on 24/12/2018
- iii. AQAR 2015-16 submitted to NAAC on 27/12/2018
- iv. AQAR 2016-17 submitted to NAAC on 27/12/2018

1.10 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 ☐

1.11 Type of Faculty/Programme

Arts ☐ Science ☒ Commerce ☐ Law ☐ PEI (Phys Edu) ☐

TEI (Edu) ☐ Engineering ☐ Health Science ☐ Management ☐

Others (Specify)

--

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

Saurashtra University, Rajkot

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

Autonomy by State / Central Govt. / University	<input type="text" value="-"/>		
University with Potential for Excellence	<input type="text" value="✓"/>	UGC-CPE	<input type="text" value="✓"/>
DST Star Scheme	<input type="text" value="✓"/>	UGC-CE	<input type="text" value="✓"/>
UGC-Special Assistance Programme	<input type="text" value="-"/>	DST-FIST	<input type="text" value="-"/>
UGC-Innovative PG programmes	<input type="text" value="-"/>	Any other (<i>Specify</i>)	<input type="text" value="-"/>
UGC-COP Programmes	<input type="text" value="✓"/>		

2. IQAC Composition and Activities

2.1 No. of Teachers	<input type="text" value="12"/>
2.2 No. of Administrative/Technical staff	<input type="text" value="4"/>
2.3 No. of Students	<input type="text" value="1"/>
2.4 No. of Management representatives	<input type="text" value="1"/>
2.5 No. of Alumni	<input type="text" value="1"/>
2. 6 No. of any other stakeholder and community representatives	<input type="text" value="1"/>
2.7 No. of Employers/ Industrialists	<input type="text" value="2"/>
2.8 No. of other External Experts	<input type="text" value="1"/>
2.9 Total No. of members	<input type="text" value="23"/>
2.10 No. of IQAC meetings held	<input type="text" value="04"/>
2.11 No. of meetings with various stakeholders:	
No.	<input type="text" value="6"/>
Faculty	<input type="text" value="2"/>

2.12 Has IQAC received any funding from UGC during the year? Yes ☐ No ☒

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos. International National State Institution Level

(ii) Themes

National level Workshop:

- Atmiya Scitech Utsav
- Advanced Instrumental Techniques in Herbal Drug Research
- Frontiers of NMR Spectroscopy and MRI

State level GSBTM Workshop:

- GSBTM crash workshop for UG & PG

Institute Level FDP/Workshop/Lectures:

- Online Patent Searching and Overview of IPR Tools
- Academic Autonomy – OBE/ Evaluation Norms/ Co-curricular courses etc.
- Introduction to IPR and patent searching strategy
- Google Tools and Technologies
- Bridge Course on Probability
- Introduction to Geogebra
- Introduction to SAGE
- Manav Vyavhar Darshan

Institute level Students Workshop:

- Restructuring PG Curriculum

Institute level Exhibition:

- Samarth-2018

2.14 Significant Activities and contributions made by IQAC

1. Student's workshop on Restructuring PG curriculum.
2. Design, Development & Implementation of new programs.
3. Procurement of new Instrument/equipments/Books as per requirement of new curriculum.
4. Outcome Based Education (OBE) for all PG programs.
5. Meetings of Statutory and Non Statutory committees as per UGC Guidelines
6. Functional linkages, collaboration, MoU's with other reputed industries/institutes.
7. Continuation of consultancy earnings- GPCB Environmental Audit and Soil Health Card program of Gujarat State Government.
8. Gujarat State Biotechnology Mission Sponsored capacity building program.
9. Coaching & Conduction of exam for Competitive Examinations / Entrance Test.
 - o Coaching for UGC NET/SLET/GATE.
 - o Conduction of SUCEAT-2017 exam organised by Career Counselling and Development Centre of Saurashtra University, Rajkot.
 - o Conduction of National Level exams like UPSC, IIT-JEE, NEET etc.
10. AISHE DCF submission
11. NIRF DCS submission.

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
To implement Outcome Based Education (OBE) in all Post Graduate Program	Conducted 3 Workshops for implementation of OBE.
To facilitate faculty members with the understanding of POs, PSOs, Cos.	The principal along with all Head of the Department participated in a webinar. Webinar – NAAC Accreditation POs, PSOs, COs Webinar ID – 625-050-907, InPods Team, through GoTo Webinar Web Portal
NIRF data submission	Rank band 100-150 in All India by NIRF-2018, MHRD, New Delhi
Introduction of new programs	Two new UG programs introduced: <ul style="list-style-type: none"> o B.Sc. Applied Microbiology o B.Sc. Physics
To organise seminar/symposium/workshop/FDP/Exhibition/Fair etc.	National level event = 3 State level event = 3 Institute level event = 9
Enhancing results	Brainstorming meetings of teachers teaching were organized and preparation strategies were drawn for enhancing the results
International and national publication	International publication = 09 National publication = 04
Improvement in academic standards	Detailed academic calendar. Teaching planner & Protocols
Consultancy generation- GPCB Environmental audit and Soil Health Card program of Gujarat	Revenue generation through consultancy –Earn while Learn Scheme:

Plan of Action	Achievements
state government.	Soil Health Card program = Rs. 39,38,266/- GPCB Environment Audit = Rs. 24,64,204/-
Enhancing Value based education programme	Conducted 3 Days & 8 Days Shibir for students as well as staff member of the college.

The Academic Calendar of Shree Manibhai Virani and Smt. Navalben Virani Science College (Autonomous), Rajkot please refer **Annexure 1**

2.15 Whether the AQAR was placed in statutory body Yes ☒ No ☐

Management ☒ Syndicate ☐ Any other body ☐

The management of the college appreciated the efforts made by staff members for progressive implementation of academic autonomy.

Provide the details of the action taken

- The staff members have initiated parallel preparation for the implementation of third year under academic autonomy and for Out Come Base system at PG level.
- A student (PG) workshop was conducted last year and the resolutions of the seminar were circulated to respective chairpersons of the BoS for consideration.

Part – B

Criterion – I

1. 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	05	--	--	--
PG	07	02	07	--
UG	12	--	07	--
PG Diploma	--	--	--	--
Advanced Diploma	--	--	--	--
Diploma	01	--	01	--
Certificate	02	--	02	VAC* =20 & CoC* = 18
Others - 5 years Integrated B.Sc. – M.Sc.	03	--	--	--
Total	30	02	18	38
Interdisciplinary	--	--	--	--
Innovative	03	--	03	--

* VAC = Value added Courses (40 hrs.) & CoC = Co curricular courses including NCC, NSS & Sports (80-200 hrs)

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

The college offers following flexibility under CBCS pattern

Choice at entry level:

- **UG Programs**
 - B.Sc. Chemistry
 - B.Sc. Industrial Chemistry
 - B.Sc. Biotechnology
 - B.Sc. Information Technology
 - B.Sc. Mathematics
 - B.Sc. Microbiology
 - B.Sc. Biochemistry
 - B.Sc. Physics
 - B.Sc. Applied Microbiology

- B.C.A.
- B.Voc. Chemical Technology
- B.Voc. Pharmaceutical Analysis & Quality Assurance
- B.Voc. Medical Laboratory & Molecular Diagnostic Technology
- B.Voc Applied Computer Technology

• **PG Programs**

- M.Sc. Pharmaceutical Organic Chemistry
- M.Sc. Chemistry
- M.Sc. Industrial Chemistry
- M.Sc. Biotechnology
- M.Sc. Information Technology
- M.Sc. Mathematics
- M.Sc. Microbiology

More number of choice under Choice Based Credit System (CBCS) system in :

- Discipline specific elective
- Discipline specific allied
- Value Added programs
- Co-curricular courses
- Soft skills and communication skills course
- Generic elective courses
- Extra credits course/ earnings through NPTEL & other MOOCs

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	32
Trimester	--
Annual	--

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

Mode of feedback : Online ☒ Manual ☒ Co-operating schools (for PEI) ☐

Please refer Annexure 2

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

Yes,

The college has plunged into autonomy wholeheartedly from A.Y. 2016-2017 adopting all aspects which would assure the multi-dimensional progress of the youth through

- a satisfactory flexible CBCS
- a Cafeteria approach of choice of study
- compulsory Universal Human Values (UHV) components at UG & PG levels
- compulsory Skill orientation & industry interface

- intensive academics & research scholarship
- focus on Outcome Based Education (OBE)
- varied assessment & evaluation strategies based on expected outcomes

Conceptual framework of various UG & PG programmes under CBCS.

Conceptual Frameworks for the Programmes

The college has developed common Models of Conceptual Frameworks for similar types of Programmes, which would serve as guidelines for each Board to prepare the number of courses under each category of the curriculum in a pre-determined structure.

3 Models of Conceptual Frameworks were developed as indicated here under.

- Model I- Conceptual Framework for UG Programmes (other than B.Voc.)
- Model II- Conceptual Framework for B. Voc. Programmes
- Model III- Conceptual Framework for PG Programmes

Awarding of Credits

The credits would be awarded as indicated below for various components.

- Theory --- 1 hour of instruction = 1 credit
- Practical --- 2 to 3 hours of instruction = 1 credit
- Tutorial --- 1 hour of instruction = 1 credit

Components of CBCS Framework

i. UG Programmes

The components were kept in line with the UGC's Guidelines and categorised as follows:

Part I	English Language Courses
Part II	Core, DSE and Generic Elective courses
Part III	Ability Enhancement Courses

ii. PG Programmes

The components of the same were decided based on the academic, research, job and life skills expected from a Post graduate as indicated below:

Part I	Core and DSE courses
Part II	Competency Enhancement courses
Part III	Value Education Course

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

NA

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
109	82	23	04	00

2.2 No. of permanent faculty with Ph.D.

58

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
20	00	00	00	00	00	04	00	20	00

2.4 No. of Guest and Visiting faculty and Temporary faculty

06

00

00

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	21	33	9
Presented papers	11	9	-
Resource Persons	-	-	14

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

Following innovative processes were adopted by the institution in Teaching & Learning:

- Academic Calendar in line with affiliating Saurashtra University calendar
- Centralized and online mark entry using in-house indigenous software.
- Implementation of skill based syllabus with more stress on practical aspects of theory learnt.
- Enrichment of library resources (digital as well as print) .
- Going beyond Curriculum
- Virtual Laboratory and Computer Simulation Studies
- Concept Mapping and mind chart
- Usage of ICT & Web 2.0 Tools
- Students as peers – peer teaching
- Hands on experiential trainings workshops
- Preadmission and Admission Counseling

- Doubt solving session – remedial coaching
- Bridge courses at both UG & PG level.
- Tutorials and learning commons.

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

243

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

The college has developed General Regulations of the Autonomous college viz., Regulations & Procedures of Evaluation & Examinations. Following are the reform highlights:

- Digitalization system for CoE procedures
- Skill based Assignment
- Performance attendance in practical
- Transparency – Double valuation
- Subjective & Objective question paper pattern
- Computer Based Test for only fundamental core courses
- Feedback on question paper by faculty handling course & Students.
- Bar coding and Masking of answer scripts
- Reassessment Process includes:
 - Re-totalling
 - Transparency (photocopy & subject expert meeting)
 - Revaluation

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

Curriculum restructuring/revision/syllabus development	109
Board of Study	94

2.10 Average percentage of attendance of students

93%

2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
BSc. IC	76	9.21	22.37	5.26	0.00	0.00
BSc. BT	106	25.47	25.47	15.09	0.00	0.00
BCA	103	23.30	30.10	4.85	0.00	0.00
BSc. IT	93	24.73	22.58	5.38	0.00	0.00
BSc. Chemistry	86	25.58	25.58	3.49	0.00	0.00
BSc. Mathematics	43	72.09	18.60	2.33	0.00	0.00
BSc. Microbiology	32	31.25	31.25	0.00	0.00	0.00
BSc. Biochemistry	30	83.33	10.00	3.33	0.00	0.00
MSc. Biotechnology	30	33.33	43.33	13.33	0.00	0.00
MSc. Industrial Chemistry	33	45.45	45.45	3.03	0.00	3.03
MSc. Computer Science & IT	25	72.00	0.00	0.00	0.00	0.00
MSc. Microbiology	27	18.52	62.96	11.11	0.00	0.00
MSc. POC	42	30.95	59.52	9.52	0.00	0.00

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

IQAC has implemented realistic and attainable quality benchmarks for each of the academic activities including teaching, learning and evaluation process which is the basis of quality enhancement and sustenance of any institution:

IQAC planning:

- Strict adherence to the academic calendar of the college
- Lesson plans and teaching diary
- Departmental Monthly meetings & ATR
- Teacher training and development programs
- Organization of Educational Visits, Seminars, Symposium Workshops
- Expert/Guest Talks
- Scientific Competitions/ Science Creativity
- Minor research projects and publication
- Earn while Learn Scheme through consultancy
- Bridge courses and remedial & special coaching
- Field visit, Industrial training and education tours

Monitoring & Evaluation:

- Departmental monthly meeting & ATR
- Mentor scheme
- Diagnosis of slow and fast learners
- Result analysis & ATR
- Feedback analysis & ATR
- Internal academic audit
- Need analysis of resources
- Monitoring through various Statutory & non statutory committees

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	01
UGC – Faculty Improvement Programme	19
HRD programmes	15
Orientation programmes	--
Faculty exchange programme	--
Staff training conducted by the university	18
Staff training conducted by other institutions	11
Summer / Winter schools, Workshops, etc.	109
Others	01

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	19	00	02	00
Technical Staff	25	00	15	00

Criterion – III

3. Research, Consultancy and Extension

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

- Proactive Research Promotion Committee.
- Information literacy programs, e-resources like science direct, N-LIST.
- Faculty Development Programs & trainings in the use of sophisticated instruments.
- Seminar/ Workshop on “Research methodology” and “Scientific writing”
- Introduction of research projects at UG level and Publication.
- Encouragement to participate in Conference, Seminars, Summer / Winter schools etc.
- Expert talks & brain storming sessions with Scientists
- Organization of State/National level seminars, symposium and conferences
- Simple Resource procurement policy and Industrial consultancy.
- Transparent IPR policy.
- Best Researcher, Reader awards by the managing trust.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	--	01	--	--
Outlay in Rs. Lakhs	--	26.85	--	--

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	--	--	--	--
Outlay in Rs. Lakhs	--	--	--	--

3.4 Details on research publications

	International	National	Others
Peer Review Journals	9	4	2 (State)
Non-Peer Review Journals	--	--	--
e-Journals	--	--	--
Conference proceedings	--	--	--

3.5 Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

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	03 (ongoing)	DBT	Rs. 37,64,000/-	Rs. 26,85,800/-
Minor Projects	--	--	--	--
Interdisciplinary Projects	--	--	--	--
Industry sponsored	--	--	--	--
Projects sponsored by the University/ College	6 Months – 1 Year	Managing trust of the college	Rs. 9,00,000/-	Rs. 9,00,000/-
Students research projects <i>(other than compulsory by the University)</i>	-	DBT (STAR), Managing Trust	Rs. 2,00,000/-	Rs. 2,00,000/-
Any other(Specify)	--	--	--	--
Total			Rs. 48,64,000/-	Rs. 37,85,800/-

3.7 No. of books published i) With ISBN No. Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP CAS DST-FIST
DPE DBT Scheme/funds

3.9 For colleges Autonomy ☒ CPE ☒ DBT Star Scheme ☒
INSPIRE CE Any Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences

organized by the

Institution

Level	International	National	State	University	College
Number	--	03	--	03	13
Sponsoring agencies	--	ICMR, DBT, UGC	--	DBT	Management, DBT, UGC

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 04

3.15 Total budget for research for current year in lakhs :

From funding agency Rs. 25.0 lakh

From Management of University/College

Total Rs. 42.83 lakh

Rs. 17.83

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	--
	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
06	--	--	03	--	--	03

3.18 No. of faculty from the Institution
who are Ph. D. Guides 08
and students registered under them 43

3.19 No. of Ph.D. awarded by faculty from the Institution 3

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

JRF -- SRF 01 Project Fellows -- Any other 01

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	152
National level	21	International level	--

3.23 No. of Awards won in NSS:

University level	--	State level	--
National level	--	International level	--

3.24 No. of Awards won in NCC:

University level	--	State level	07
National level	02	International level	--

3.25 No. of Extension activities organized

University forum	--	College forum	04	
NCC	06	NSS	02	Any other --

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

1. Collection of fund from faculty, students and society along with equal or more contribution from the management for “Armed Forces Day (Flag Day)” on 07/12/2017.
2. Celebration of International Yog Day, Rashtriya Ekta Diwas, Gandhi Jayanti, Sadbhavna din etc.
3. Elocution completion to spread awareness “Khadi for nation Khadi for fashion” on 21/02/2017 total number of participant 20.
4. Observing “International Yoga Day” on 21/06/2017 in which total 1462 stakeholders have participated.
5. Traffic awareness Seminar
6. Observing “SHAHID SMRUTI DIVAS” on 30/01/2017.
7. Awareness program regarding benefits of Natural farming.
8. Participation in mission for cleanness to raise awareness among the masses by NCC students
9. NSS Students Participated in the awareness rally for International AIDS Day.
10. NSS volunteers participated in the Road Security Awareness Fortnight Programme.
11. Science popularisation activity for schools located in rural and urban areas.
12. School teacher training programs.
13. Tree plantation and Thalassemia testing, Blood grouping & Blood donation camp.
14. Swacchta Abhiyan program at adopted village Vagudad, Dist: Rajkot.
15. Lecture, talk and street plays on environmental issues.
16. Each one Teach one program in local slum areas.
17. The college provide services to Gujarat Pollution Control Board, Gandhinagar as schedule-I auditor.
18. Soil Health Card Program of Gujarat Government.
19. Gender Empowerment Program– Save Girl Child | Educate Girl Child
20. Collaboration with 20+ NGOs & GOs.
21. Fight - against blind beliefs | o+ Feticide

22. The college has conducted “Minaxi Lalit Science Award Test-2017” organized by Gujarat Science Academic, Ahmedabad on 08/01/2017 in which 692 students have participated
23. Awareness/ Participation/ Donation/ Community Development/ Rallies/ Literacy/ Talks/ Lectures/ film Show/Exhibitions/Celebrations of National Festival & Days.

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	23.5 acre	--	--	23.5 acre
Class rooms	29	--	--	29
Laboratories	61	--	--	61
Seminar Halls	6	--	--	6
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	96 (Previous Year)	07	Managing Trust	103
Value of the equipment purchased during the year (Rs. in Lakhs)	204.33	41.08	Managing Trust	245.41
Others				

4.2 Computerization of administration and library

Administration:

1. Digitalised Admission Process
2. Student Management (SMS)
 - Online attendance
 - Time – Table
 - Leave submission
3. Digitalization of Feedback Collection and Analysis
4. Digitalization of CoE Process (in progress)
5. Atmiya Academic Monitoring System (AAMS)
 - Class, Subject, Division & Batch Management
 - Subject Selection Procedure
 - Lecture & Actual Engagement Plan
 - Counselor / Coordinator
 - Department resource management
 - Faculty – Course Management
 - Duty Allocation
6. Digital financial account management
7. Staff leave management system
8. Online indent service
 - Maintenance
 - Transport
 - Stationery & teaching aids

- Auditorium booking

Library:

1. Fully automated housing New Gen Lib OPAC | Open Access | DDC
2. Institutional Repository using D Space | Digital
3. N-LIST of UGC : 6000+ e-journals; 97,000+ e-books
4. E library-20 systems | Internet | 1000+ CDs and digital material
5. Shared e resources - Science Direct, ASME /ASTM, JGate, EBSCO, Prowess

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	21594	7123536.09	602	726457.6	22196	7849993.69
Reference Books	3023	5062181.92	94	161484.52	3117	5223666.44
e-Books	97000	10750		5750	97000	16500
Journals	77	176754	77	176754	77	176754
e-Journals	6000	5000		Free	6000	5000
Digital Database	Institutional Repository using DSpace - Digital Library of Student Project reports, Dissertations and Faculty Publications					
CD & Video	2952		68		3020	
Others (General Books)	3848	339395	253	36788.1	4101	376183.1
Special Collection (Gandian Study)	304	40560	No		304	40560

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	475	14	80 mbps	14	14	17	100	--
Added	30	1	10 mbps	1	1	1 upgrade	3 upgrade	--
Total	475	15	90 mbps	15	15	17	100	--

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

1. Network Switches : Existing : 21 Added : 1 Replaced:3, Total : 22

2. Faculty Development Program:
 - Online Patent Searching and Overview of IPR Tools
 - Introduction to IPR and patent searching strategy
 - Google Tools and Technologies
 - Introduction to Geogebra
 - Introduction to SAGE
3. Institute level SDP/Workshop/Training:
 - Restructuring PG Curriculum
 - Chemdrawultra Software
 - Soil Analysis: Estimation of Macro-nutrients
 - Sophisticated Instrument like UV/IR/Ultrasonicator/Ultra Sonic Interferometer

4.6 Amount spent on maintenance in lakhs :

i) ICT	3.70
ii) Campus Infrastructure and facilities	37.38
iii) Equipments	28.50
iv) Others	1068.78
Total:	1138.37

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Mentor scheme
- Training & Placement cell
- Departmental forums and committees
- Library and learning centre Bulletin boards and departmental notice board.
- College website updates.
- Alumni association activities.

5.2 Efforts made by the institution for tracking the progression

- Alumni association meet
- Parent teachers association
- Blogs and Social media
- Industry – Institute collaboration

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
2733	563	43	0

(b) No. of students outside the state

4

(c) No. of international students

Nil

No	%
1708	51.82

Men

Women

No	%
1588	48.18

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
2125	69	23	665	0	2882	2502	81	13	698	2	3296

Demand ratio 1:6

Dropout % LESS THAN 0.5%

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

UG Students:

- SCOPE – English proficiency certificate program-Cambridge University
- PG entrance test
- GSBTM capacity building program

PG student

- UGC NET/SLET/GATE

UG & PG

- Government competitive exams
- SUCEAT exam conducted by the CCDC of affiliating Saurashtra University, Rajkot

No. of students beneficiaries

850

5.5 No. of students qualified in these examinations

NET	--	SET/SLET	--	GATE	--	CAT	--
IAS/IPS etc	--	State PSC	--	UPSC	--	Others	09

5.6 Details of student counselling and career guidance

The following counselling activities are carried out for the students:

1. **Preadmission counselling:** The admission committee along with departmental faculties chalks out a plan for counselling every year. The prospectus, flyers, banners, posters covering information related to program, structure of program, courses, special features, fees, scholarships & freeships, resources, future career, various schemes of the college/government etc. are prepared and placed on the campus.

The Parents & Students have been counselled for challenges & opportunity of Autonomy.

2. **Academic counselling:** Academic counselling starts with the induction program for the new entrants and lasts till exit of the student. The equal weightage is dedicated to communication skill in English and domain specific core specialisation during induction program. And throughout the year through mentor scheme counselling is done. The parent meeting is also conducted.
3. **Personal counselling:** Need based and general counselling is catered through mentor scheme. The personality development trainings and workshops are also conducted. Students are free to attend weekly spiritual assembly where expert talks are delivered. The authorities are freely accessible for students including the president of the trust, who is a saint. The grievance redressal cell/anti ragging committee/women empowerment cell are also actively supporting the students. The Yog & Meditation, Health check up camps are also conducted.

Career counselling: The training and placement cell & Career Guidance Cell jointly conducts various student development programs related to preparation of CV, mock interview, soft skill, aptitude etc. The academic departments including NCC, NSS & Sports department organises special coaching / crash workshop for various competitive exams and entrance test for UG & PG students. The libraries on campus have subject wise collection of books & e-resources for the same.

No. of students benefitted: All students of the college

1000

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
14	367	202	14

5.8 Details of gender sensitization programmes

The gender ratio of the college students is approximately 1:1.

- Empowerment of Girls (Smart Girls) programmes is organized for all the girls of the college.
- Atmiya Women's Association Knowledge Empowerment (AWAKE) organises various activities like guest talks, competitions, celebration of international women's day etc. for female faculties and girls students of the campus.
- Expert talks on various issues/challenges by lawyers, doctors, social activist etc.
- Single girl child schemes awareness programs.
- Audio-visual shows/films for creating awareness regarding women empowerment.
- Discussion/Debates on Women rights.
- Workshop on self-defence techniques.
- Theme based street plays, skit, mime etc.

5.9 Students Activities

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 in Rs.
Financial support from institution	76	1,71,805/-
Financial support from government	336	-
Financial support from other sources	-	-
Number of students who received International/ National recognitions	-	-

5.11 Student organised / initiatives

Fairs	: State/ University level	--	National level	--	International level	--
Exhibition:	State/ University level	01	National level	--	International level	--

5.12 No. of social initiatives undertaken by the students

12

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

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision:

To be a premier Institution of Science, Technology and Human values, aiming at the holistic sustainable development of youth, society and mother earth, leading to excellence.

Mission:

- To create, acquire and disseminate knowledge, fostering skills and global competence among the students, through the intellectual facilitators, teachers and mentors, the “Gurus”.
- To provide holistic science education through well structured relevant programmes, learner centric approaches, pedagogic innovations, along with the adoption of modern technologies and strategies.
- To provide dedicated qualified and competent faculty, state-of-art infrastructure and other support facilities to facilitate better learning and research activities.
- To motivate teachers and students to develop research culture and undertake scientific investigation to realize their scientific creativity, contributing to sustainable development as a means of better life and living.

- To inculcate lived values, culture, morality and spirituality in the heart of youths to foster universal brotherhood, patriotism, righteous living and selfless service through the practice of “ATMIYATA” and “Gurukul”.
- To protect and promote Indian culture, heritage, and respect Indian Constitution and global charter of human rights and environmental protection.
- To make youth self reliant and productive through proper employment or entrepreneurship, ultimately in the service of society and humanity.
- To establish linkages and collaborations for the betterment of the educational process and objectives.
- To promote strategies and activities towards the overall personality development of youth, through defined student support and welfare systems.
- To facilitate cultural, sports and community development activities involving all stakeholders, as a means of institutional social responsibility.
- To aim at innovations and adopt best practices to move towards excellence.

6.2 Does the Institution has a management Information System

Yes

- Student Management (SMS)
- Atmiya Academic Monitoring System (AAMS)
- Indigenous data capturing module for internal marks.

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

6.3.1 Curriculum Development

- Curriculum development is designed as per UGC’s guidelines.
- The college contributes through its 94 BoS members and 6 science faculty members of the University.
- Conceptual Frameworks for the Programmes: The College has developed common Models of Conceptual Frameworks for similar types of Programmes, which would serve as guidelines for each Board to prepare the number of courses under each category of the curriculum in a pre-determined structure. 03 Models of Conceptual Frameworks were developed as indicated here under.
 - Model I- Conceptual Framework for UG Programmes (other than B.Voc.)
 - Model II- Conceptual Framework for B. Voc. Programmes
 - Model III- Conceptual Framework for PG Programmes.

6.3.2 Teaching and Learning

- The college conducts program wise Orientation program and Bridge courses for the new entrants at UG & PG level.
- A teaching planner/diary is prepared in the beginning of every academic semester /year.
- Departmental pedagogy and development of virtual lab, simulation, mind chart, concept mapping, and assignments-advanced/skill based etc.
- Innovative learning methods like peer teaching, model making, sci-simulation, demonstrative sessions and learning commons etc are adopted.
- Remedial coaching, Hands on experiential training workshops etc. are conducted.
- The teaching & learning process is closely monitored by feedbacks, monthly departmental staff meeting and meeting of HoD’s with the Principal.

6.3.3 Examination and Evaluation

- The academic calendar committee of this autonomous college prepares the academic calendar inclusive of examination calendar.
- The examination form filling, internal marks entry and degree registration is digitalized.
- The college has introduced innovative evaluation methods for internal components like
 - Skill based assignments,
 - Open book test,
 - Objective Question bank preparation by Students
 - Concept mapping,
 - Display board activities,
 - Question bank preparation,
 - Minor project/report preparation,
 - Model making etc.
- The college maintains 100% transparency for internal evaluation, the evaluated assignments and answer scripts with comments are shown to the students and revaluation / double evaluation is also done, if needed.
- The college is conducting online entrance test for PG admission followed by personal interview.
- The controller of examination with the help of examination committee executes the semester end & supplementary examinations.
- Paper setting both internal & external paper setters.
- 50% of the evaluation of answer scripts to be done by external examiners.
- Moderation of answer scripts.
- Provision of providing photo copy of evaluated answer script on demand.

6.3.4 Research and Development

- The college has proactive Research Promotion Committee to strengthen research and development environment.
- The committee recommends active participation of faculty member in various level seminar/conference, summer/winter school etc.
- UG/ PG students are given industry defined or institute defined research / dissertation projects of innovative and interdisciplinary nature. UG & PG students are publishing their research work in journals or presents in the seminar / conference.
- Research facilities has been upgraded due to the generous support received from UGC, CPE, DBT, GSBTM, Govt. of Gujarat and managing trust of the college.
- The Students & faculties are trained for the use of existing / newly procured sophisticated instruments in phased manner.
- The college organizes various information literacy programs like Research methodology and scientific writing, N-LIST.
- The college motivates students and teacher by awarding Best researcher and reader awards
- The library and learning centre of the college has the following collection to cater needs of R&D:
 - NLIST of UGC : 6000+ e-journals; 97,000+ e-books
 - Shared e resources - Science Direct, ASME /ASTM, Jgate, EBSCO, Prowess

6.3.5 Library, ICT and physical infrastructure / instrumentation

- The Library committee of the college prepares a budget for every year for procuring latest reference/ text books, National/International Serials, magazines, journals etc.
- The Central Maintenance Cell on campus has two wings: 1. Physical Infrastructure 2. ICT& Instrument both the wings are actively looks after maintenance & purchase. The managing trust has appointed dedicated skilled manpower for the same and has made several AMC's.

6.3.6 Human Resource Management

- Qualified & competent teaching and non-teaching (technical, maintenance & support) staff members are recruited based on the requirement of the program and student teacher ratio.
- The staff members (management appointee) are given incentives and increments based on their performance appraisal.
- Staff welfare schemes like special leaves, loans & advances, sabbatical leaves, cooperative society etc. are made available.
- The HR department of the college facilitates smooth execution of policy of the managing trust and Government.

6.3.7 Faculty and Staff recruitment

- The staff members are recruited by the HR department based on the requirement of the program, student teacher ratio & as per the policy of the trust.
- The college follows affiliating University procedure for recruitment and gets approval from the parent University.
- In addition to the University procedure, the college has introduced selection through demo lecture, presentation / demonstration and also the feedback received from the student and faculty.

6.3.8 Industry Interaction / Collaboration

- The college has Training & Placement Cell and Career Counselling Cell where every departmental coordinator are members.
- The college has several MoU's, collaborations & linkages with regional industries, Universities, research organizations, GO's & NGO's.
- Objectives of the MoU's /collaborations / linkages are achieved by the coordinating academic department.
- The industry partners are involved in curriculum design & development of innovative & vocational programs.
- The linkages with the industry are further strengthened by mutual cooperation, consultancy and Environmental Audit Cell of the college.

6.3.9 Admission of Students

- The admission committee along with software & account section of the college monitors entire admission process.
- The admission committee along with departmental faculties chalks out a plan for counseling every year. The prospectus, flyers, banners, posters covering information related to program, structure of program, courses, special features, fees, scholarships & freeships, resources, future career, various schemes of the college/government etc. are prepared and placed on the campus.
- Admission of the students is done by merit/ entrance following the reservation policy of the Government.
- Students are admitted through Lateral entry also.
- For post graduate students, admission is done through pre-test, cumulative marks in U.G. following a personal interview.

6.4 Welfare schemes for

a) Teacher

- Loans & Advances
- Leaves- Marriage, Maternity, Advance, Sabbatical
- Educational loans
- Bachelors quarters
- Admission priority/ reservation
- Free health check up
- Sponsorships
- Consultancy share
- Credit Cooperative Society membership

- Discounted Uniforms
- Medical Service assistance/ Emergency care
- Subsidised Mess/ Gym facility

b) Non-teaching

- Loans & Advances
- Leaves- Marriage, Maternity, Advance, Sabbatical
- Educational loans
- Admission priority/ reservation
- Free health check up
- Consultancy share
- Credit Cooperative Society
- Discounted Uniforms
- Medical Service assistance/ Emergency care
- Subsidised Mess/ Gym facility
- Education progression.

c) Students

- Vocational programs
- NaMo e-Tab scheme of the State Government
- Freeships & Scholarship
- Free Thalassemia testing
- Educational loans
- Free health check up
- Health awareness program.
- Discounted Uniforms
- Medical Service assistance/ Emergency care
- Subsidised Gym facility
- Sponsorship & free sports uniform
- Cambridge University Certificate Program -SCOPE
- Earn while Learn

6.5 Total corpus fund generated

--

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*	Yes	-	Yes	IQAC
Administrative*	Yes	-	Yes	IQAC

*The External A & A is done for two years (2016-17 & 2017-18) under Autonomy by the External Committee constituted by the college management.

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

For UG Programmes Yes* ☒ No ☐

For PG Programmes Yes* ☒ No ☐

* Within 20-25 days

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

The college has developed General Regulations of the Autonomous college viz., Regulations & Procedures of Evaluation & Examinations. Following are the reform highlights:

- Digitalization system for CoE procedures
- Skill based Assignment
- Performance attendance in practical
- Transparency – Double valuation
- Subjective & Objective question paper pattern
- Computer Based Test for fundamental core courses
- Feedback on question paper by faculty handling course & Students.
- Bar coding and Masking of answer scripts
- Reassessment Process includes:
 - Re-totalling
 - Transparency (photocopy & subject expert meeting)
 - Revaluation

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

NA

6.11 Activities and support from the Alumni Association

The alumni meet is organised annually at department & college level. The following activities and support are received from alumni.

- Feedback/suggestions on curriculum.
- Expert talks.
- Procurement of instruments/equipments.
- Admission & scholarships.
- Industrial visits / tour.
- Training & placement.
- Sponsorship.

6.12 Activities and support from the Parent – Teacher Association

The college organises parent meeting in the beginning of semester. Department wise need based meeting is conducted. The following activities & support are received from parents:

- Feedback on overall academic process.
- Procurement of resources.
- Scholarships & Freeships.
- Industrial visits / tour.
- Training & placement.
- Sponsorship.
- Participation in college functions, workshops, seminars etc.
- Extension activities.

6.13 Development programmes for support staff

The main focus of the college for AY 2016-17 is effective progressive implementation of academic autonomy. The college regularly conducts training programs for support staff on various aspects such as digital processes, good laboratory practices, safety & hygiene, record maintenance & human values. The technical / admin staffs are encouraged to study further on part time/distance education mode. They are also attending the trainings conducted by the University & the Government.

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

Energy saving initiatives:

- Annual energy audit for electricity.
- Use of energy efficient instrument & equipments like UPS, power back-up & generators.
- Replacement of routine electric utilities like bulbs, tube lights etc. by CFLs & LEDs.
- Majority A/C computer labs are situated in lower base floors.
- Less power consuming Desktop systems.
- Roof Top Solar power generation (18-20% of total consumption).

Environmental protection initiatives:

- Paper recycling. Better waste management by introducing separate waste bins (Green & Red) all over the campus. Green for recyclable paper waste and the other for non-recyclable waste.
- Rain Water harvesting.
- Plastic free campus.
- Neem tree plantation on campus.
- Fume hoods with wet scrubber (Air pollution control measure) for chemistry laboratories.
- Noise and Air pollution free power generators.

Towards paperless administration:

- Institutional mail ids for all the faculty members.
- All notices and communications are made through mail for faster delivery and better record keeping.
- Online test are also conducted in many subjects.
- Circulation of study materials in e-form through blogs and forums online.
- Online indent, maintenance call reports and other administrative work.
- The students are also sensitized and asked to work on projects which can be provided greener solutions to existing problems of Environment. The environment awareness massages is published the many walls of the college.

Criterion – VII

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.

1) Environment Audit

Goal:

Our environmental auditing goals are:

- Identify and document facility compliance status.
- Improve overall environmental performance at facilities.
- Increase environmental awareness throughout the company.
- Identify and assess environmental risks.
- Optimize Resources.

Context:

Environmental Auditing is the process of determining whether our operations and practices are in compliance with regulatory requirements, Company policies and procedures, and accepted standards. It is a systematic, objective evaluation of facility activities for a finite review period designed to:

- Verify compliance with environmental regulations, internal policies, and accepted practices.
- Evaluate the effectiveness of environmental “management systems” in place, and
- Identify and assess any reasonably foreseeable risks associated with hazardous

Conditions attributable to our operations and prevent or mitigate such risks.

An effective corporate environmental auditing program increases environmental management effectiveness and comfort with the knowledge that the risks of potential exposure to adverse environmental issues are being addressed.

Practice:

- To audit Industry at least once every year.
- Facilities can be audited more or less frequently with concurrence from senior management. Audit protocols are made available to the operating units.
- Under certain circumstances, various units and operations may feel the need, or be required by various agencies, to conduct special environmental audits. These should only be done in concurrence with senior management.

The problems encountered are likely to vary from facility to facility. However, what could be generally expected & need attention, are as follows:

- The prior history of the site.
- The age of the relevant equipment.
- Lack of record related to the relevant equipment.
- The attitude of the concerned personnel on site toward such audit studies.
- Problems as well as responses of the concerned management for implementation of the corrective measures.

Evidence of Success:

The impact of foresaid practice can be summarized as below:

- Academic-Industry interaction.
- Involvement of staff in real time problems & troubleshooting.
- Awareness regarding more environmental issues & pollution control programmes.
- Awareness & Exposure of staff regarding prospective research required in environmental & industrial issues.

Problems encountered and Resource Utilized:

Laboratory:

i) Space:

Each auditor must have an adequate laboratory having an area of minimum 30 Sq m for one team; 40 sq m for two teams and 50 sq m for three teams.

ii) Instruments/parameters:

The applicant shall have self-reliant laboratory with duly calibrated all necessary and required instruments as per annexure A and shall have qualified and trained human resources i.e. chemical engineer.

iii) Hiring services:

The environment audit cell of the institution hires the services of approved agencies of the state government.

2) Academic and Administrative Audit (A-A-A) and Perspective Planning**Goals:**

Continuous quality enhancement leading to positive growth and development as per goals & plans

Context:

To developed perspective plans based on the set goals and bench marking through the strategies of quality initiatives, sustenance and enhancement. In order to check the implementation of the plan, its purpose and outcome, there is always a need to have a midterm review / audit on the set goals, plan and achievements. Further, based on the audit report, midterm corrective measures can be initiated and plans can be revised suitably. Ever growing academic sectors as per global needs and expectations creates new avenues for improvement based on higher levels of goals & bench marks. Earlier importance was given only to financial audit. Now the expectation is the audit for academic and academic administration also.

Practice:

The institution under takes AAA at three levels

1. External Academic administrative Audit by External Experts.
2. AAA by Knowledge Consortium of Gujarat, Commisionarate of Higher Education, Govt. of Gujarat.
3. AAA by IQAC.

Apart from these, the reports of UGC Autonomy Committee, DBT Star College Review Committee and Saurashtra University Local Inspection Committee also help in the process of quality sustenance and enhancement.

Outcome:

- Improvement in the standards.
- New quality initiatives
- New bench marks & goal
- Updating of the perspective plan.

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

beginning of the year

Plan of Action	Action taken
Introduction of new programs with 3-3-1 pattern	B.Sc. <ul style="list-style-type: none"> ○ CPM majoring in Physics ○ MBZ majoring in Applied Microbiology
To organise seminar/symposium/workshop/FDP/ Exhibition/Fair etc.	National level Workshop: <ul style="list-style-type: none"> ○ Atmiya Scitech Utsav ○ Advanced Instrumental Techniques in Herbal Drug Research ○ Frontiers of NMR Spectroscopy and MRI State level GSBTM Workshop: <ul style="list-style-type: none"> ○ GSBTM crash workshop for UG & PG Institute Level FDP/Workshop/Lectures: <ul style="list-style-type: none"> ○ Online Patent Searching and Overview of IPR Tools ○ Introduction to IPR and patent searching strategy ○ Google Tools and Technologies ○ Bridge Course on Probability ○ Introduction to Geogebra ○ Introduction to SAGE ○ Manav Vyavhar Darshan Institute level Students Workshop: <ul style="list-style-type: none"> ○ Restructuring PG Curriculum Institute level Exhibition: <ul style="list-style-type: none"> ○ Samarth-2018
To implement Outcome Based Education (OBE) in all Post Graduate Program	Conducted 3 Workshops for implementation of OBE.
To facilitate faculty members with the understanding of POs, PSOs, Cos.	The principal along with all Head of the Department participated in a webinar. Webinar – NAAC Accreditation POs, PSOs, COs Webinar ID – 625-050-907, InPods Team, through GoTo Webinar Web Portal
NIRF data submission	Rank band 100-150 in All India by NIRF-2018, MHRD, New Delhi
Introduction of new programs	Two new UG programs introduced: <ul style="list-style-type: none"> ○ B.Sc. Applied Microbiology ○ B.Sc. Physics
To organise seminar/symposium/workshop/FDP/ Exhibition/Fair etc.	National level event = 3 State level event = 3 Institute level event = 9
Enhancing results	Brainstorming meetings of teachers teaching were organized and preparation strategies were drawn for enhancing the results
International and national publication	International publication = 09 National publication = 04
Consultancy generation- GPCB Environmental audit and Soil Health Card program of Gujarat state government.	Revenue generation through consultancy –Earn while Learn Scheme: Soil Health Card program = Rs. 39,38,266/- GPCB Environment Audit = Rs. 24,64,204/-
Enhancing Value based education programme	Conducted 3 Days & 8 Days Shibir for students as well as staff member of the college.

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

1) Title: Interdisciplinary Workshops

Context:

In today's knowledge landscape, there is a great scope for interdisciplinary research. Interdisciplinary research moves beyond simple collaboration and teaming to integrate data, methodologies, perspectives, and concepts from multiple disciplines in order to advance fundamental understanding or to solve real world problems. And since we are at advantage to have a range of courses and subjects on our campus it is possible to conduct inter disciplinary activities. As an initiative to get an insight into the different disciplines and also to work possibilities of Interdisciplinary research work the Interdisciplinary workshops are being conducted.

Objectives:

To get an insight into the different disciplines and also to work possibilities of Interdisciplinary research work at UG, PG & Ph.D. level within the campus.

Action Plan:

During the IQAC meetings the head of the departments would update each other on the new initiatives and progress in their departments and it was during these meetings and also during the expert lecture series under DBT Star scheme; the team decided to work out scope for Interdisciplinary work and common requirements to increase the horizon for Research.

Thus the Sciences & Pharmacy, Computer & IT, Science & Engineering - MBA, departments started collaborating and started working on topics that the workshops could be conducted upon. Till date we have been able to conduct workshops on the topics like: HPLC, Virtual Lab, Electrophoresis, Coral draw, Information literacy, Pre placement & HR, Bio scientific calculations, Spectroscopy, Industrial chemistry, Pharmaceutical Engineering, Microbial techniques, Research methodology, Scientific databases & software etc.

Resource Utilized and generated:

Most of Resource persons were in-house and in some cases we had invited the guest lecturers from different Universities and organizations.

Impact:

Many departments have collaborative research work happening and students also find it more feasible to work in range of interdisciplinary areas for their projects and dissertations.

2) Title: Atmiya Sadhakas: A Team of Devoted and Dedicated Lifelong Workers**Goal:**

- To bring moral unrighteous & ethical excellence among students.
- To serve the institute dedicatedly for its efficient operation.
- To take personal care for academic excellence of the students & serve them selflessly.
- Inculcate cultural value of life in the students and support them physically, mentally and spiritually

Context:

H.D.H. Hariprasad Swamiji who is the founder President of Yogi Divine Society, a Socio Religious organization that works primarily to prop up cultural and sacred values through education. Sarvodaya Kelawani Samaj is educational Wing of YDS. Pujya Swamiji inspires dedicated Sadhak teachers and non teaching members that the college is pious temple... as we serve to idols of God with flowers, Aarti, Prasad and pious feeling, with the same Spirit we must serve the students and such services is directly received by God. Thus with this aim 100% dedicated teaching and non teaching members work for the smooth management of the institute.

The students have talent, but as they lack direction they need to be directed in right channel. Sometimes, students deviate from their goals and indulge into such activities that will make them socially downtrodden, at this point they need moral support, care and selfless love and are need to be looked after delicately and deliberately, which is often possible through Sadhakas & Atmiya devoted staff.

Practice:

- Based on the educational background various services are performed by the dedicated devotees in various facets of the institute eg, Teaching, Laboratory Work, Maintenance, campus cleanliness, chemical and instrument purchase, Serving in Students store, Canteen, Hostel, etc.
- Dedicated Sadhaks regularly conducts spiritual talk (Indian Cultural & Moral Values) on weekly basis and every year students attend International Youth convention organized by YDS. Sadhak from different centres of YDS are invited for interaction with students in the campus.
- Regular interaction session with the students discussing about their problems regarding Hostel, family, friends, study and many more topics of their interest.

Evidences of Success:

- As dedicated staff work in the institute with feeling to serve their soul, the sincerity, regularity and commitment shown by them is par excellent. As they are available 24×365 days institute runs very smoothly and efficiently.
- Moreover they show enthusiasm in participating in any activities of the college with 100% sincere efforts. And enthusiastic participation leads to success in any activities put up by the institute.
- Because of dedicated team mismanagement of resources of institute is prevented thereby serving the institute economically.
- They have become true guardian to the students; the motivation & inspiration acquired by the team have made the students lively, enthusiastic and inculcated high cultural and moral values.
- Many times students are counselled directly by saints and Sadhvi sisters of YDS, leading to a positive outcome in student's life.

7.4 Contribution to environmental awareness / protection

- In addition to initiatives taken for making the campus eco-friendly (*pl refer 6.14*); the college have included
- The college has organized Swachhhta Abhiyan in collaboration with Officers from RMC on 02/10/2017 in which 250 students along with 50 staff members. They all downloaded Swachhhta MoUD application which is developed by Government of India.
- Under the Mission of **Swaccha Bharat Mission NSS, NCC and various forums have organized different competitions/activities like-** Campus Cleaning, Painting/Scitoon Making/ Slogan Writing/Spot Photography Competition/Elocution/Quiz. Gandhi Jayanti: The day was observed along with **cleanliness drive**.
- A pledge was taken by all **staff and students** on cleanliness. Tree plantation event is organized every year and eco trips/ camps and visit to ETP /STP have been organised.

7.5 Whether environmental audit was conducted? Yes ☒ No ☐

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

--

8. Plans of institution for next year

- To organise National level seminar/symposium/workshops.
- To give more numbers of UG students project of Interdisciplinary/multidisciplinary nature.
- Recruitment of staff required for the implementation of new programme.
- To organise FDP's/ Training program.
- To encourage faculties for major and minor sponsored research projects.
- To procure new infrastructures to meet demands of new programs.
- To upgrade facilities for Central Chemical Instrumentation.
- To enrich library & Learning resources.
- To increase number of linkage/ collaboration/MoU's with industries/ academic institute/ organisations (GOs/NGOs).
- To take up efforts to make campus cleaner & greener.
- To make efforts for development of consciousness for Values Education.
- To prepare and submit data for NIRF & AISHE.
- To submit proposal for financial support from Gujarat Government for Student Start Up & Innovation Project (college has nominated co-ordinator for SSIP to Knowledge Consortium of Gujarat)

Name: Mr. R. S. Tank

Name: Dr. K. D. Ladva

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

Shree Manibhai Virani and Smt. Navalben Virani Science College (Autonomous), Rajkot

Track ID: GJCOGN13267

Academic Calendar for year 2017-18 – Odd Semester

SHREE M. & N. VIRANI SCIENCE COLLEGE (Autonomous), RAJKOT Sem.Planner 2017-18 [Odd Sem.]												
DAY	Dt.	JUNE	Dt.	JULY	Dt.	AUGUST	Dt.	SEPTEMBER	Dt.	OCTOBER	Dt.	November
MON			31						30			
TUE				1	Assign. -2				31	Sardar Jayanti		
WED				2							1	SEE Sem-1 & 3 Pr.
THU	1			3							2	
FRI	2			4		1					3	
SAT	3		1	Model QP Sem.-1	5	53th/44thDay CIE - 1 Th.	2	Bakari Id			4	Gurunanak Jayanti
SUN	4		2	Assign. -1	6		3	Supp.Exam-1	1	Muhharam	5	
MON	5	Reopening- Sem-3 & 5	3		7	Raksha Bandhan	4	SEE Form	2	Gandhi Jayanti	6	
TUE	6		4		8	CIE-1 TH	5		3		7	
WED	7		5		9	-do-	6		4		8	
THU	8		6		10	-do-	7		5		9	
FRI	9		7		11	Model QP Sem.-3	8		6	Hall Ticket	10	
SAT	10		8		12		9		7		11	
SUN	11		9	Gurupurnima	13		10	Supp.Exam-2	8		12	
MON	12	SU Reopen	10	Model QP Sem.-2	14		11		9	99th/90th Day CIE - 2 Th.	13	
TUE	13		11		15	Indep. Day/ Janmastmi	12		10	CIE-2 & Assgns All Marks Entry	14	
WED	14		12		16		13		11		15	
THU	15		13	Supp. Exam Form	17	Pateti	14		12		16	SU Even Sem Begin
FRI	16		14		18	CIE-1 & Assgns All Marks Entry	15		13		17	
SAT	17		15		19		16		14		18	
SUN	18		16		20		17	Supp.Exam-3	15		19	
MON	19		17	1st Attendance%	21	2nd Attendance%	18	3rd Attendance%	16		20	All SEE Sem-1 & 3 Th.
TUE	20		18	CIE-1 QPs	22		19	Assign. -3	17		21	
WED	21		19		23		20		18		22	
THU	22		20		24		21		19	Diwali	23	
FRI	23		21		25	Samvatsari/ Ganesh Chaturthi	22		20		24	
SAT	24		22		26		23		21		25	
SUN	25		23		27		24	Supp.Exam-4	22		26	
MON	26	Ramjan iid	24		28		25	CIE - 2 Pr.	23		27	CV
TUE	27		25		29		26		24		28	
WED	28		26	CIE - 1 Pr.	30		27		25		29	
THU	29		27		31		28		26		30	
FRI	30		28				29	CIE-2 QPs	27			
SAT			29				30	Dussehra	28			
SUN			30						29			
		22/13 days		26 days		21 days		24 days		11 Days		25 days
				48/39 days		69/60 days		93/84 days		104/95 days		129/120 days

Dates	Event
2 July	Assignment - 1
1 Aug	Assignment - 2
05 to 12 Aug	1st CIE- Theory Sem- 1 & 3 All Programs (44th/53rd Day)
26 July onwards	1st CIE- Practical Sem- 1 & 3 All Programs - Dept. wise
13 to 17 Aug	Janmastami Festival
3/10/17/24 Sept	Supplementary Theory Exam - Sem- 1 & 2
19 Sept	Assignment - 3
25 Sept to 7 Oct	2nd CIE- Practical Sem- 1 & 3 All Programs - Dept. wise
09 to 14 Oct	2nd CIE- Theory Sem- 1 & 3 All Programs (90th/99th Day)
10 to 14 Oct.	UG- Int.- B.Voc. - PG Programs Software Entry Report generation & candidates Sign (Attendance + Assgn- 1,2 & 3 + CIE-1 & 2 + Journal Book + VE + ES + 100% CIE courses)
15 to 31 Oct	Diwali Festival
1 to 18 Nov.	SEE - Practical Sem- 1 & 3 All Programs
20 to 24 Nov	SEE - Theory Sem- 1 & 3 All Programs
27 to 30 Nov	Central Valuation
1 Dec.	Even Sem. Begin

Saurashtra University Calander	
AK/O-95/O-205/359/2017 Dt.21-03-17 (Original)	
12 June to 14 Oct- 2017 - Odd Semester	
15 Oct to 15 Nov -2017- Diwali Festival	
16 Nov to 2/12 May-2018 - Even Semester	
3/13 May to 13 June-2018 - Summer Vacation	

Sem-3&5/Sem-1

Sem-3&5/Sem-1

Academic Calendar for year 2017-18 – Even Semester

|| SwamiShriji ||

Shree Manibhai Virani and Smt. Navalben Virani Science College (Autonomous), Rajkot													
Affiliated to Saurashtra University, Rajkot													
Semester Planner - 2017-18 [Even Semester]													
DAY	Dt.	November	Dt.	December	Dt.	January	Dt.	February	Dt.	March	Dt.	April	
MON					1						2	SU SEE Sem II	
TUE					2						3		
WED	1				3						4		
THU	2				4		1		1		5	SEE-Practical (Regular & Suppl. Sem - I to IV)	
FRI	3		1		5		2		2	Holi - Dhuleti	6		
SAT	4	Gurunanak Jayanti	2	Id-e-Milad	6	Edu - Field Visit/ Tour	3		3		7	Software Marks Entry Closed for CIE	
SUN	5		3		7		4		4	Supp.Exam-1	8		
MON	6		4		8		5		5		9		
TUE	7		5	Sem II/IV reopens	9	Assign. -I	6		6		10		
WED	8		6		10		7	CIE-1 & Assgn. Marks Entry- closed	7		11		
THU	9		7		11		8		8	SU SEE Sem VI Women's day	12		
FRI	10		8		12		9		9		13		
SAT	11		9		13	1st Attendance%	10		10		14	Ambedkar Jayanti	
SUN	12		10		14	Uttarayan	11		11	Supp.Exam-2	15		
MON	13		11		15	CIE - 1 Pr. Supplementary Exam & SEE Form	12		12		16	SEE - Theory Sem - IV (Regular)	
TUE	14		12		16		13	Maha Shivratri	13	Assign. -3	17		
WED	15		13		17	CIE-1(TH) QPs	14		14	SU SEE Sem IV	18		
THU	16	SU-Even Sem Begins	14		18		15		15		19		
FRI	17		15		19		16	Assign. -2	16	CIE-2 (TH) QPs	20		
SAT	18		16		20		17	Assign-2 Marks Entry- Open	17	3rd Attendance% & Compensation	21		
SUN	19		17		21		18		18	Supp.Exam-3 Cheti Chand	22		
MON	20		18		22	Vasant Panchami	19	2nd Attendance %	19	CIE -II Pr Total CIE Marks upload (Assign+ CIE II Theory & Pr., VAC & CoC, Record book-Pr)	23	SEE - Theory Sem - II Regular & Supplementary	
TUE	21		19		23	CIE-1 & Assign. Marks Entry- open	20		20		24		
WED	22		20		24		21	Assign-2 Marks Entry- closed	21		25		
THU	23		21		25		22		22		26	CV	
FRI	24		22		26	Republic Day	23		23		27		
SAT	25		23		27		24	Last Date VAC & CoC	24		28		
SUN	26		24		28		25		25	Supp.Exam-4 Ram Navami	29		
MON	27		25	Christmas	29	45th Day CIE - 1 Th.	26		26	91st Day CIE - 2 TH. Hall Ticket	30		
TUE	28		26		30		27		27				
WED	29		27		31		28		28				
THU	30		28						29	Mahavir Jayanti			
FRI			29						30	Good Friday			
SAT			30	Model QP & Examiner, Paper Setter List					31				
SUN			31	Alumni Meet							1		
		13 days		22 days		25 days		23 days		24 Days		20 days	
				22 days		47 days		70 days		94 Days		114 days	

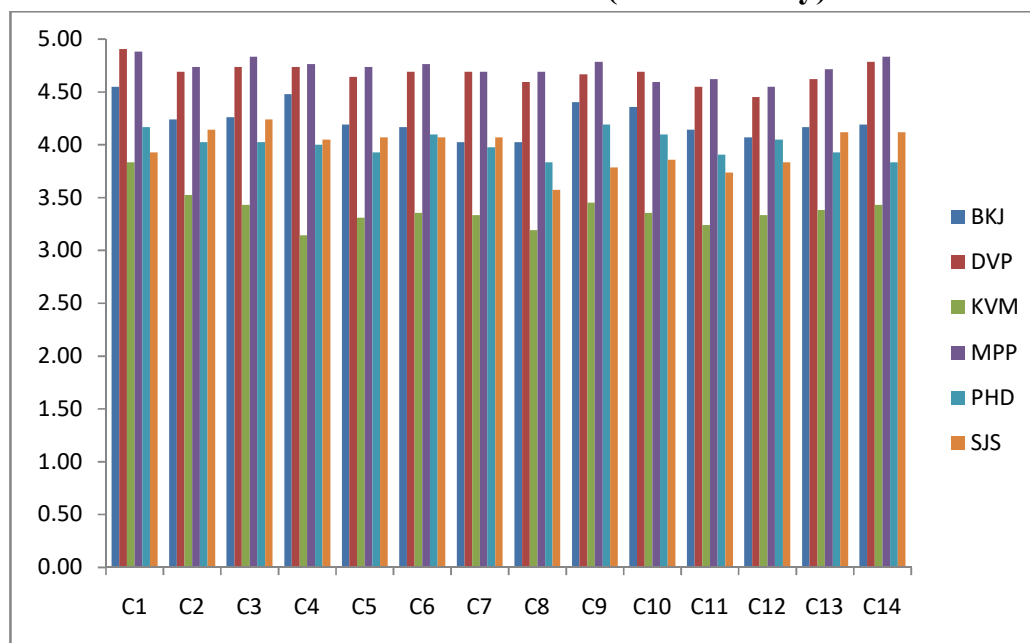
Dates	Event
Before 9th Jan	Assignment - 1 (30th Day)
Before 16th Feb	Assignment - 2 (60th Day)
Before 13th March	Assignment - 3 (80th Day)
15-01-18 to 20-01-18	1st CIE- Practical Sem- 2 & 4 All Programs - Dept. wise (35 th Day)
19-03-18 to 24-03-18	2nd CIE- Practical Sem- 2 & 4 All Programs - Dept. wise(87th Day)
29-01-18 to 02-02-18	1st CIE- Theory Sem- 2 & 4 All Programs (45th Day)
26-03-18 to 03-04-18	2nd CIE- Theory Sem- 2 & 4 All Programs (91st Day)
March 04, 11,18, 25	Supplementary Theory Exam - Sem- 1 & 3
23-01-18 to 07-02-18	Software Marks Entry CIE Test - 1 (TH & PR) + Assignment -I
17-02-18 to 21-02-18	Software Marks Entry Assignment -II
19-03-18 to 07-04-18	UG- Int.- B.Voc. - PG Programs Software Entry Report generation & candidates Sign (Attendance + Assign- 1,2 & 3 + CIE-1 & 2 + Journal Book + VE + ES + 100% CIE courses)
05-04-18 to 15-04-18	SEE - Practical Sem- 2 & 4 All Programs
16-04-18 to 28-04-18	SEE - Theory Sem- 2 & 4 All Programs
26-04-18 to 05-05-18	Central Valuation
14-06-18	SU 2018-2019 Academic Session Odd Sem opens

Saurashtra University Calander AK/O-95/O-205/505/2017 Dt.29-05-17
--

Shree Manibhai Virani and Smt. Navalben Virani Science College (Autonomous), Rajkot

Track ID: GJCOGN13267

Analysis of Feedback – AQAR 2017-18

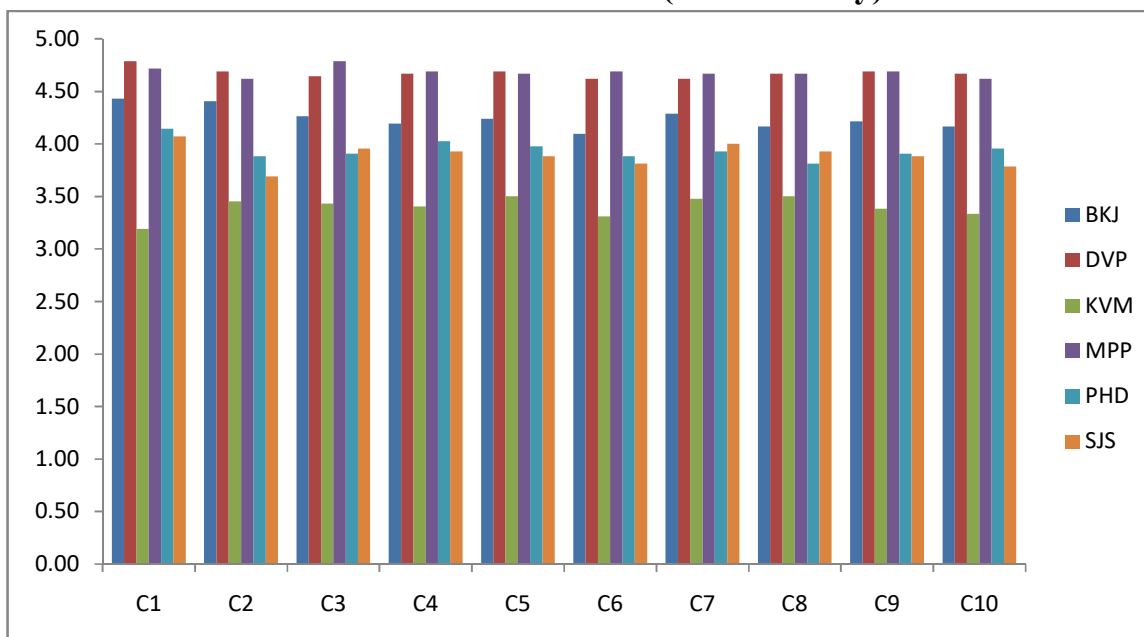
1. Feedback on Teachers (Biochemistry)

Initial	Full Name
MPP	(Dr) Mayur Parmar
DVP	Dr Dipak Parmar
PHD	Dr Prachi Dewante
SJS	Dr Sonal Shah
KVM	Mrs Khushboo Mehta
BKJ	Ms Bhavana Jagani

C1	Punctuality of the teacher
C2	Sincerity / commitment of the teacher
C3	Communication skills of the teacher
C4	Clarity of knowledge conveyed by the teacher
C5	Ability to integrate content of course with other courses
C6	Ability to integrate course with its applications
C7	Accessibility of teacher in & out of the class
C8	Interest generated by the teacher
C9	Teaching-learning methods adopted by the teacher
C10	Use of ICT (PPT/Video/lecturer/Software/Video conference/Virtual lab./Others)
C11	Use of other methods (specify) eg. Model, chart, demo etc.
C12	Your opinion on the handling by the teacher of the following assessment tools (Quiz/Surprise test/GD/Assignments/Seminar/Others)
C13	Provision of sufficient time for feedback
C14	Overall rating

Analysis of Feedback – AQAR 2017-18

2. Feedback on Teachers (Biochemistry)

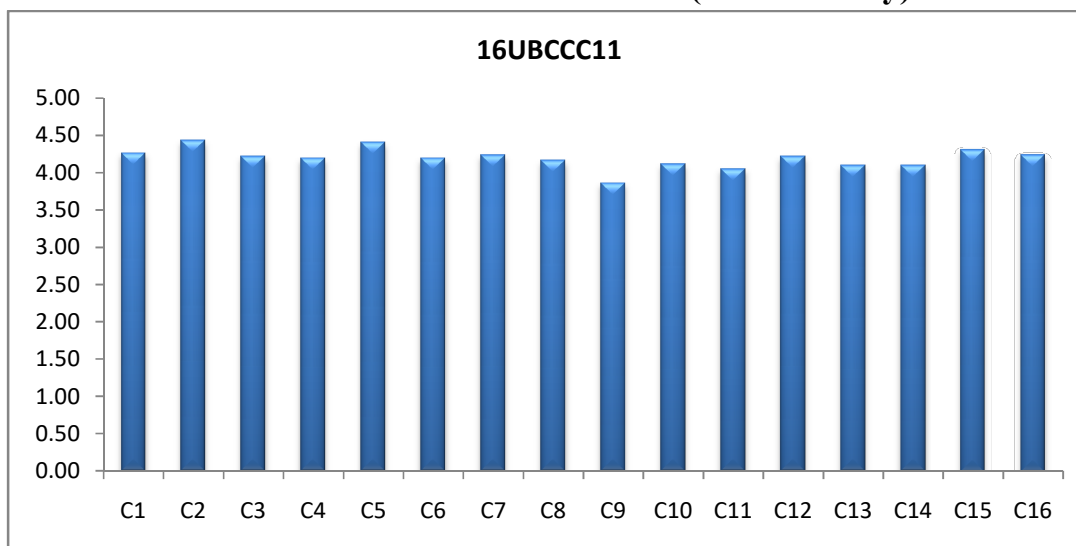


Initial	Full Name
MPP	(Dr) Mayur Parmar
DVP	Dr Dipak Parmar
PHD	Dr Prachi Dewante
SJS	Dr Sonal Shah
KVM	Mrs Khushboo Mehta
BKJ	Ms Bhavana Jagani

C1	Preparation for Class
C2	Syllabus Coverage
C3	Encouragement of students participation in the class
C4	Type of internal assessment conducted
C5	Type of assignment given
C6	Discussion of assignment with you
C7	Extent of availability of material for prescribed reading
C8	Helpfulness of teacher in guiding / advising
C9	Feedback on performance in test
C10	Frequency of feedback on performance in test

Analysis of Feedback – AQAR 2017-18

3. Feedback on Practical Course (Biochemistry)

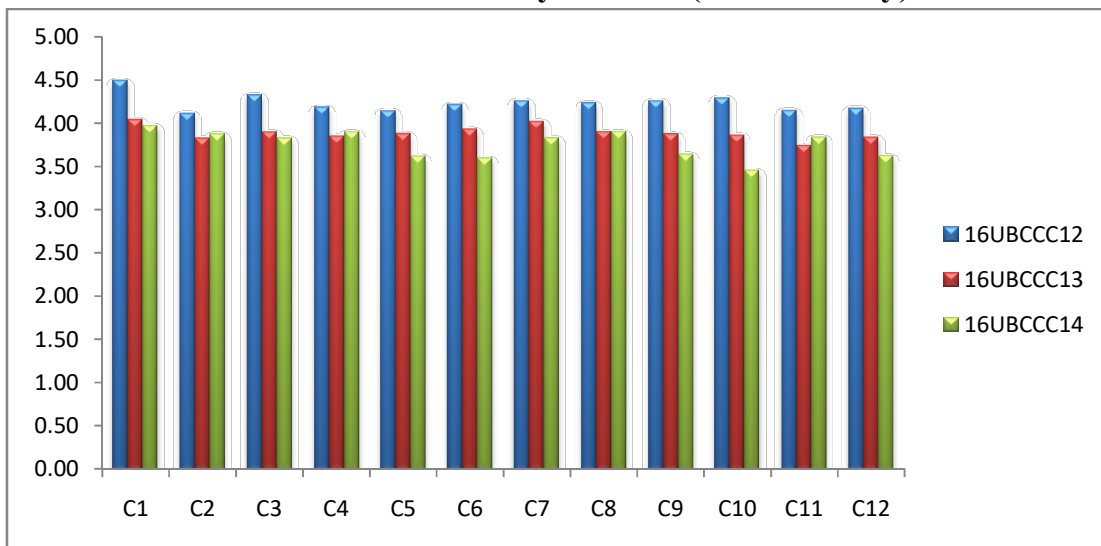


Course Code	Course Name
16UBCCC11	Enzymology and Analytical Biochemistry Practical

C1	Relevance of the course to your programme
C2	Number of experiments
C3	Relevance of the course to real-life situations/applicability
C4	Learning value in terms of (Information/Knowledge/Concepts/Analytical abilities/Physical/Technical skills/Application)
C5	Conduct of experiments with concepts & inference by the teacher
C6	Depth of the syllabus of the course
C7	Clarity & relevance of lab manual or procedures
C8	Its relevance as a fundamental / Application-oriented course
C9	Laboratory facilities
C10	Adequacy of equipment
C11	Working condition of equipment
C12	Positioning of the course in this semester
C13	Punctuality of evaluation of experiments
C14	Conduct of CIE tests
C15	Relevance of components of CIE
C16	Technical support by lab assistant

Analysis of Feedback – AQAR 2017-18

4. Feedback on Theory Course (Biochemistry)

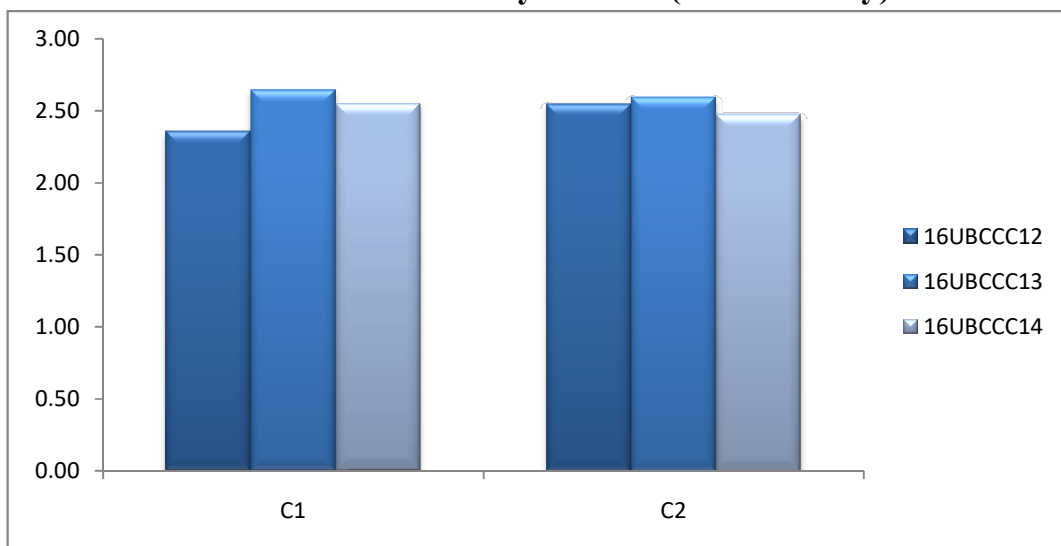


Course Code	Course Name
16UBCCC12	Metabolism
16UBCCC13	Membrane Biology and Bioenergetics
16UBCCC14	Molecular Biology-I

C1	Relevance of the course to your programme
C2	Relevance of the course to real-life situations/applicability
C3	Positioning of the course in this semester
C4	Depth of the syllabus of the course
C5	Clarity and relevance of text books
C6	Clarity and relevance of reference books / journals
C7	Its relevance as a fundamental / Application-oriented course
C8	Understanding of the course in relation to practical, if any
C9	Facilitation of learning of the course by the teacher
C10	Information on additional learning / reading resources given by teacher
C11	Learning value in terms of (Information/Knowledge/Concepts/Analytical abilities/Physical/Technical skills/Application)
C12	Overall rating of the course

Analysis of Feedback – AQAR 2017-18

5. Feedback on Theory Course (Biochemistry)



Course Code	Course Name
16UBCCC12	Metabolism
16UBCCC13	Membrane Biology and Bioenergetics
16UBCCC14	Molecular Biology-I

C1	Efforts required by Students to understand the course
C2	Efforts required after class hours for self study of the course
