

**Annual Quality Assurance Report**

**(AQAR)**

**Submitted by**

**Charutar Vidyamandal's**

**Ashok & Rita Patel Institute of Integrated Study and Research in  
Biotechnology & Allied Sciences  
(ARIBAS)**

**(Affiliated to Sardar Patel University)**

**Vallabh Vidyanagar-388120, Gujarat**

**[www.aribas.edu.in](http://www.aribas.edu.in)**

**Email :head@aribas.edu.in**

**Principal :Dr.Nilanjan Roy**

**Co-ordinator :Dr.Shilpa Gupte**

**Phone Number : 02692- 234955**

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To,

The Director  
NAAC  
P.O. Box. 1075  
Opp. NLSIU, Nagarbhavi,  
Baglore-560072  
Karnataka

Sub: Submission of Third AQAR report

Ref: Track Id.: GJCOGN17123

Dear Sir,

We herewith submit the softcopy of Third AQAR of academic year 2016-17.

The NAAC peer team visited our institute on 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> April 2014.

Thanking You,

Yours Sincerely,

Shilpa Gupte

Co-ordinator IQAC

Nilanjan Roy

Head, ARIBAS

**The Annual Quality Assurance Report (AQAR) of the IQAC**  
(Academic Year June 2016-July 2017)

Part – A

**1. Details of the Institution**

1.1 Name of the Institution	Ashok and Rita Patel Institute of Integrated Study and Research in Biotechnology and Allied Sciences, ARIBAS
1.2 Address Line 1	ADIT campus, New VallabhVidyanagar-388121,
Address Line 2	New VallabhVidyanagar-388121
City/Town	Anand
State	Gujarat
Pin Code	388121
Institution e-mail address	head@aribas.edu.in
Contact Nos.	+91 2692 / +91 2692 229189
Name of the Head of the Institution:	Dr. Nilanjan Roy
Tel. No. with STD Code:	+91 2692 / 229189
Mobile:	09409306736

Name of the IQAC Co-ordinator:

Mobile:

IQAC e-mail address:

1.3 NAAC Track ID(For ex. MHCOGN 18879)

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)

1.5 Website address:

Web-link of the AQAR:

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 <sup>st</sup> Cycle	A	3.01	2014	5 yrs
2	2 <sup>nd</sup> Cycle				
3	3 <sup>rd</sup> Cycle				
4	4 <sup>th</sup> Cycle				

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

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

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 2014-15 submitted to NAAC on 28/03/2015
- ii. AQAR 2015-16 submitted to NAAC on 30/03/2016
- iii. AQAR 2016-17 submitted to NAAC on 28/03/2017
- iv. AQAR \_\_\_\_\_ (DD/MM/YYYY)

1.10 Institutional Status

University	State	<input checked="" type="checkbox"/>	Central	<input type="checkbox"/>	Deemed	<input type="checkbox"/>	Private	<input type="checkbox"/>
Affiliated College	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>				
Constituent College	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>				
Autonomous college of UGC	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>				
Regulatory Agency approved Institution	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>				

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

Type of Institution	Co-education	<input checked="" type="checkbox"/>	Men	<input type="checkbox"/>	Women	<input type="checkbox"/>
	Urban	Rural	<input checked="" type="checkbox"/>	Tribal	<input type="checkbox"/>	<input type="checkbox"/>
Financial Status	Grant-in-aid	<input type="checkbox"/>	UGC 2(f)	<input checked="" type="checkbox"/>	UGC 12B	<input checked="" type="checkbox"/>
	Grant-in-aid + Self Financing	<input type="checkbox"/>	Totally Self-financing	<input checked="" type="checkbox"/>		

1.11 Type of Faculty/Programme

Arts	<input type="checkbox"/>	Science	<input checked="" type="checkbox"/>	Commerce	<input type="checkbox"/>	Law	PEI (Phys Edu)	<input type="checkbox"/>	<input type="checkbox"/>
TEI (Edu)	<input type="checkbox"/>	Engineering	<input type="checkbox"/>	Health Science	<input type="checkbox"/>	Management	<input type="checkbox"/>		
Others (Specify)	<input type="text"/>								

1.12 Name of the Affiliating University (for the Colleges)

Sardar Patel University

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

Autonomy by State/Central Govt. / University	NA		
University with Potential for Excellence	NA	UGC-CPE	NA
DST Star Scheme	NA	UGC-CE	NA
UGC-Special Assistance Programme	NA		NA
UGC-Innovative PG programmes	NA	Any other ( <i>Specify</i> )	
UGC-COP Programmes	NA		

2. IQAC Composition and Activities

2.1 No. of Teachers	07
2.2 No. of Administrative/Technical staff	01
2.3 No. of students	---
2.4 No. of Management representatives	01
2.5 No. of Alumni	00
2.6 No. of any other stakeholder and community representatives	00
2.7 No. of Employers/ Industrialists	00
2.8 No. of other External Experts	02
2.9 Total No. of members	11

2.10 No. of IQAC meetings held Total No

2.11 No. of meetings with various stakeholders: No. Faculty

Non-Teaching Staff  Students  Alumni  Others

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

## 2.14 Significant Activities and contributions made by IQAC

Certain corrective measures were made for the improvement in academic standard as well as in internal evaluation process

- Effective efforts were made by all faculty members to improve the student's strength of the institute and for the same following activities have been conducted over the year.
- **INSPIRE Internship Camp** sponsored by DST, New Delhi was conducted for five days for Standard XI science students from schools of Anand, Vidyanagar, Nadiad, Borsad, Godhara, Ahmedabad and Baroda from 13<sup>th</sup> to 17<sup>th</sup> June'2016. Total 249 students participated in it.
- ARIBAS was a centre for **BT-Capacity Building cell (PG-BT-CBC)** by GSBTM, Gandhinagar for the conduction of crash workshop for preparing PG students for National competitive examination. Two times NET Crash Course workshop were organized in current year. Total 104 students from different colleges attended the workshop.
- **Personal counseling in schools & in Colleges:** Faculty members visited various schools and colleges of Anand and Kheda district and counsel for career opportunities. About 85 school students and 250 undergraduate students were covered under personal counseling.
- **Training at ARIBAS: More than 338** B. Sc. students from Anand and other district of Gujarat state were given hands on training on certain molecular biology techniques, tissue culture technique and general analytical techniques used in industry.
- Regularly Internal IQAC audit of teaching and non-teaching staff was done for verification and updation of the documents and the report was also discussed in faculty meeting for corrective measures.
- Steps were taken to strengthen physical & digital library content.
- Faculty have submitted total 06 Major and 01 Minor research proposals in various funding agencies.
- Proposal submitted for setting up of Incubation Centre under Atal Innovation Mission - 'Atal Incubation Centres' to NITI Aayog, Govt. of India to promote a culture of innovation & entrepreneurship among youth.



## 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
Efforts for improvement in academic standard	Academic calendar was prepared for upcoming semester. Centralized time-table was prepared in terms of well define theory and modular practical schedule. Standardized exam schedule was followed in terms of quizzes & exams. Online teaching plan & protocols were available to students. Online system was developed for students attendance & academic record details.
Steps to strengthen physical & digital library content	To strengthen the physical library contents 186 books were purchased and 08 periodicals were introduced this year. With incorporation of teaching plan, protocols of practical, new e-books, and thesis, Dspace content was enriched. A huge video lecture library covering all major biotech content is created.
Internal IQAC Audit of teaching and teaching staff documents	Internal IQAC Audit of teaching and non-teaching staff Members was done regularly once in a year
Initiatives towards increase in student's strength of the institute	Admission counselling committee was formed and direct Counselling to students pattern was adapted, visited many schools & colleges were visited within & outside the state. Prospectus & Leaflet of the institute were updated and circulated for display purpose. Different workshop, seminar & training programmes were organized time to time to orient students towards science
Emphasize on entrance exam preparation activity	To develop research aptitude of the students, NET/SLET guidance cell was developed. Moreover, institute received financial support for conduction of workshop sponsored by GSBTM for the students interested for National Eligibility Test exams.
To conduct DST sponsored Science Camp under INSPIRE programme	Organization of DST sponsored Science Camp under INSPIRE programme, institute has submitted application in DST
To develop good laboratory practices and skill based learning	Proposal submitted for setting up of Incubation Centre under Atal Innovation Mission - 'Atal Incubation Centre' to NITIAayog, Govt. of India to promote a culture of Innovation & entrepreneurship among youth.

**\* Attach the Academic Calendar of the year as Annexure. – Attached as Annexure : I**

2.15 Whether the AQAR was placed in statutory body      Yes       No   
Management  State      Any  body     

Provide the details of the action taken

Every major issues and decisions need approval from the Management CVM Council, in during last academic year following matters were taken in consideration.

1. Steps to strengthen physical & digital library content
2. Efforts for improvement in academic standard
3. Initiatives towards increase in student's strength of the institute
4. Emphasize on entrance exam preparation activity especially for National Eligibility Test exams sponsored by GSBTM.
5. Organization of DST sponsored Science Camp under INSPIRE programme
6. Proposal submitted for setting up of Incubation Centre under Atal Innovation Mission - 'Atal Incubation Centre'to NITI Aayog, Govt. of India to promote a culture of Innovation & entrepreneurship among youth.

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	09	Nil	09	Nil
PG	05	01 M.Sc. Forensic Science (approval received late, will start from June 2017.	06	Nil
UG	Nil	Nil	Nil	Nil
PG Diploma	Nil	Nil	Nil	Nil
Advanced Diploma	Nil	Nil	Nil	Nil
Diploma	Nil	Nil	Nil	Nil
Certificate	Nil	Nil	Nil	Nil
Others	Nil	Nil	Nil	04
Total	14	01	15	04

Interdisciplinary	Nil	01,M.Sc.Forensic	01	00
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		Science		
Innovative	Nil	Nil	Nil	<p>04</p> <p>1.Organized DST, New Delhi sponsored 5 days INSPIRE Internship Camp for Standard XI science students from schools of Anand, Vidyanagar, Nadiad, Borsad, Godhara, Ahemdabad and Baroda from 13<sup>th</sup> to 17<sup>th</sup> June '2016. Total 339 students were registered.</p> <p>2. Organized twice (1<sup>st</sup> to 5<sup>th</sup> June 2016 and 24<sup>th</sup> to 28<sup>th</sup> Nov. 2016) GSBTM, Gandhinagar sponsored 5d CSIR-NET Crash Course for students from all over Gujarat. Total 104 students participated in it.</p> <p>3.Personality Development Program for all M.Sc Courses students.</p> <p>4.Research Methodology</p> <p>(i) 26-30<sup>th</sup> April-2016 for M. Sc. IGBT dissertation students and mock interview.</p> <p>(ii) 9<sup>th</sup> &amp; 10<sup>th</sup> Dec. 2016, for Sem X and Sem VI of MSc IGBT and M. Sc Biotechnology, Microbiology, Genetics and Pharmaceutical Chemsitry.</p>

				<p>Proposals submitted</p> <ul style="list-style-type: none"> <li>• Proposal submitted to DST, New Delhi for DST-Inspire Summer Camp-2017.</li> <li>• Proposal submitted to GSBTM Sponsored Crash Course for State and National level Examinations-2017.</li> <li>• Proposal submitted for setting up of Incubation Centres under Atal Innovation Mission - 'Atal Incubation Centres' to NITI Aayog, Govt. of India to promote a culture of innovation &amp; entrepreneurship among youth.</li> </ul>
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1.2 (i) Flexibility of the Curriculum: CBCS/Elective option

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	
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 provide an analysis of the feedback in the Annexure Analysis attached as Annexure II & III

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

- The restructuring of all M. Sc. Courses is under progress in the University. The basic structure of the syllabus will be prepared as per the guidelines of Model Syllabus provided by UGC. Four faculty members are part of Syllabus Committee formed for M. Sc. Microbiology, Biotechnology, Genetics and Pharmaceutical Chemistry. Head of the Institute is Convener for M. Sc. Integrated biotechnology Syllabus revision committee.
- The course duration of M. Sc. Integrated biotechnology has been revised. Presently, the course is of five and a half years, which has now been reduced to five years only. The new syllabus for M. Sc. Int. Biotechnology is being prepared accordingly.
- College has submitted a proposal to the University for revision of eligibility criteria for admission in M. Sc. Integrated Biotechnology. Presently only B group students are eligible for admission; the request for allowing A group students also for admission is under process.

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

A new course on M. Sc. Forensic Science program (04 Semesters course, CBCS) has been approved by Sardar Patel University. The university syllabus is adopted as such.

## Criterion – II

### 2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
23	19	03	01	00

2.2 No. of permanent faculty with Ph.D.

19

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
00	00	00	00	00	00	00	00	00	00

2.4 No. of Guest and Visiting faculty and Temporary faculty

00

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	10	10	02
Presented	06	05	01
Resource Persons	00	00	02

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

This year 2016-17 following innovative processes adopted by the institution to enhance academic performance:

- Two day Workshop on “fundamental Laboratory techniques” for Second semester students of all branches was conducted to teach Basic laboratory procedures, Microscopic techniques, Bioethics, Health and safety.
- Research Methodology Workshop: Five day Research Methodology Workshop was organized for 73 dissertation students from 26th to 30th April’ 2016, which was followed by mock interview on the last day.
- Experts from Industry Mr. Daivat Shah, INTAS PHARMACEUTICALS, Ahmedabad and Mr. SamruddhaJadhav, Reliance Life Sci., Mumbai; HR experts from CDC, Vallabh Vidyanagar were called for Mock interview.
- Second Research Methodology workshop was organized 9th and 10th Dec. 2016 for M. Sc. IGBT Sem. X and M. Sc. Micro/Biotech/Genetics & Pharmaceutical Chemistry Sem IV students. Total 100 students attended the same.

Following few of the processes which we have adopted from the previous academic year remained in continuation.

- Seminar presentation is compulsory from good quality research paper downloaded from Pubmed Central; the presentation is delivered by the student in front of the whole class which has been evaluated by at least three faculty members.
- Evaluation of M.Sc. Dissertation thesis is made stream line. The evaluation of dissertation of final semester students, is done in three stages i.e. Project proposal evaluation by examiners in open seminar, mid- term evaluation in the form of poster presentation and final thesis evaluation and presentation.
- Research methodology workshops are regularly conducted for the final year students.
- As per decentralization of external practical examination by Sardar Patel University since October, 2015, all external practical examinations including Comprehensive viva-voce and dissertation thesis evaluation need to be conducted at institutional level.
- Centralized time-table was prepared with well define theory and modular practical schedule. This time table is made online on institutional website.



- To regularize and to monitor student attendance, online attendance monitoring system is developed by the institute which includes theory and practical class attendance? It also gives precise report in terms of student profile & counsellor details.
- Institutional examination results are made online and that will be accessed by both students and their parents from places other than institute.
- Online teaching plan is prepared and syllabus is linked with physical and digital library resources.
- This year, with financial assistance from GSBTM, Gandhinagar, the institute has organized five days crash course on CSIR NET twice where in 104 students were trained in toto.
- ARIBAS also organized INSPIRE internship camp to bring awareness among science students for various government schemes to shape up their carrier. Institute was financially supported by DST New Delhi and total 249 students were benefited.
- To promote and evaluate research proposals for extra mural funding, committee has been formed centrally by the management of the institute and named CORE. Two of our faculty members are members of this central committee. Many projects have been evaluated and recommended for submission centrally among sister institutes.
- E-resources have centralized laboratory protocols and are updated as per current semesters. D-space content is timely enriched and updated. A new video lecture library covering all delivered lectures during crash course on CSIR NET is created.
- To strengthen the physical library content 189 books were purchased this year. The current physical library content is Books: 5464, Journals: 10, Magazine: 07, Dissertation Thesis: 1347, CDs : 285.

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

149
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2.8 Examination/ Evaluation Reforms initiated by the Institution

Yes
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(for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

We have opted standardized exam schedule in following terms

- Quiz after one unit
- Mid-term internal exam after two units of completion
- Final after four units

- Evaluation of M.Sc. Dissertation thesis is made stream line. The evaluation of dissertation, undertaken by final semester students, is done in three stages i.e. Project proposal evaluation by examiners in open seminar, mid- term evaluation in the form of poster presentation and final thesis evaluation and presentation.
- Sardar Patel University has decentralized the external practical examination. Since October, 2015, all external practical examinations including comprehensive viva-voce and dissertation thesis evaluation and presentation are conducted by Institutional examination committee.

2.9 No. of faculty members involved in curriculum Restructuring / revision / syllabus

development as member of Board of Study / Faculty / Curriculum Development workshop.

Faculty members involved in curriculum restructuring/revision/syllabus development	03
Member of Board of Study	06
Member of Senate	02

2.10 Average percentage of attendance of students

75
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2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
M.Sc. Integrated Biotechnology	376	40.96	37.23	14.36	00	7.18
M.Sc. Biotechnology	5	00	80	00	00	20
M.Sc. Microbiology	21	4.76	33.33	19.05	00	42.86
M.Sc. Genetics	9	33.33	55.56	11.11	00	00
M.Sc. Pharmaceutical chemistry	3	100	00	00	00	00

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

Before new academic year starts, IQAC conduct a meeting with teaching & non-teaching staff members. To improve the academic performance of students and faculty new strategies are planned out and tried to be implemented in the semester. New innovative practices are introduced for teaching-learning and evaluation. Corrective measures are also implemented in administration as per the suggestion of the HOD and academic committee. Moreover, IQAC constantly keeps an eye on adherence to the time schedule for completion of the syllabus, quizzes, seminar, and examinations. IQAC regularly take feedback of different stock holders, i.e. students, alumni, parents etc. Faculty performance is also evaluated by the students and academic growth is yearly monitored by the management. IQAC take all corrective measures time to time.

## 2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	00
UGC – Faculty Improvement Programme	00
HRD programmes	00
Orientation programmes	00
Faculty exchange programme	00
Staff training conducted by the university	02
Staff training conducted by other institutions	00
Summer / Winter schools, Workshops, etc.	02
Others	00

## 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	07	00	00	00
Technical Staff	27	00	00	00

### Criterion – III

#### 3. Research, Consultancy and Extension

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

- For all the students of all M.Sc courses, starting from Semester I, seminar presentation is compulsory from good quality research paper downloaded from Pubmed Central; the student has to present it in front of the whole class which is evaluated by at least three faculty members
- The evaluation of dissertation, undertaken by final semester students, is done in three stages i.e. Project proposal evaluation by examiners in open seminar, mid- term evaluation in the form of poster presentation and final thesis evaluation and presentation. Panel of evaluators is same at all the three stages to monitor progression. Research methodology workshops are regularly conducted for the final year students.
- At Institutional level, Departmental Research Committee is framed to monitor and regulate research associated work, involved in the conduction of PhD coursework and to monitor progress of doctoral research six monthly.
- In order to promote research CVM has created Consortium of Research Enhancement (CORE). The aim of the CORE is to promote research, encourage interdisciplinary approach and inter-institute research, to guide and screen projects, check plagiarism. Three representative members of ARIBAS are part of CORE. During current year seven research proposals were screened before CORE and they were approved by the CORE subcommittee i.e. Biosciences.

##### 3.2

##### Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	00	04	01	06
Outlay in Rs. Lakhs	00	130.22456	29.56920	28.78628

##### 3.3

##### Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	01	01	0	01
Outlay in Rs. Lakhs	4	2.25	2.25	1.20

##### 3.4

##### Details on research publications

	International	National	Others
Peer Review Journals	30	00	02
Non-Peer Review Journals	-	-	-
e-Journals	-	-	00
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	2016	GSBTM+UGC+DST	43,36,456/-	10,44,828/-
Minor Projects	2016	GUJCOST	2,25,000/-	1,65,000/-
Interdisciplinary Projects	2016	DST	86,86,000/-	47,62,000/-
Industry sponsored	-	-	-	-
Projects sponsored by the University/ College	-	-	-	-
Students research projects <i>(other than compulsory by the University)</i>	-	-	-	-
Any other(Specify)	-	-	-	-
Total			1,32,47,456/-	59,71,828/-

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

ii) Without ISBN

3.8 No. of University Departments receiving funds from

SAP      CAS       DST-FIST   
      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	-	-	-	-	-
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 : Nil

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
04	04	-	-	-	-	-

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  level

National level  International level

3.22 No. of students participated in NCC events:

University level  level

National level  International level

3.23 No. of Awards won in NSS:

University level  level

National level  International level

3.24 No. of Awards won in NCC:

University level  level

National level  International level

### 3.25 No. of Extension activities organized

University forum	<input type="text" value="-"/>	College forum	<input type="text" value="06"/>	
NCC	<input type="text" value="-"/>	NSS	<input type="text" value="01"/>	Any other <input type="text" value="02"/>

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

- **Gyanfoum** organized 02 lectures and 02 Research Methodology Workshops for M. Sc. IGBT Sem. X and M. Sc. Micro/Biotech/Genetics & Pharmaceutical Chemistry Sem IV.
- **Scientifiq Club** had organized **SCIENTIFIQ-2017** event on **11<sup>th</sup> January 2017**. Total 152 students of various schools and colleges have enrolled. They have enthusiastically participated in various events like Poster presentation, Elocution, Scitoon competition and Quiz.
- **SWAN** club of ARIBAS hadorganised a “***Green Campus Program***” at ARIBAS on 12-08-2016.
- The club has also organized **Nature Club Camp at Little Run of Kuccha** b/w 24<sup>th</sup> to 26<sup>th</sup> Feb 2017 where they have visited **Kodadha&Ghudakhar Sanctuary**.
- **Red Ribbon club** of ARIBAS had organized a Blood Donation Camp on 12<sup>th</sup> July 2016. More than 50 units of blood collected. And blood sample of 72 students were collected for Thallasemia screening by Indian Red Cross Society.
- Second blood donation was organized on 17<sup>th</sup> Feb. 2017 jointly with NSS, ARIBAS. Gorewala blood bank did collection, 40 units blood was collected.
- **Women Cell** of ARIBAS has organized a talk on International Women’s Day on 8<sup>th</sup> March 2016. Dr. Dhvani Sharma (Incharge, National Secretary, BharatiyaJantaYuvaMorcha) had delivered a talk on “**Super Woman----Take A lead of your Life**”. All the faculty, teaching and non-teaching staff members and Girl Students have attended the program.
- The cell has also organized organized a talk on International Women’s Day on 8<sup>th</sup> March 2017. **Dr. Manisha Gohel had delivered a talk on Fat &transfat: Facts &Myths**. Simultaneously poster presentation and slogan writing competition was also organized for girl students.
- 100 Students of M.Sc. IGBT Semester I to VI were enrolled as volunteers in NSS. NSS Orientation programme and Tree plantation was held on 12/8/2016. MOU was signed



with GanaGrampanchyat for Village adoption at Gana Village on 23/9/16. ARIBAS NSS Annual Camp was organized in Gana village from 26/11/2016- 2/12/2016. The following activities were undertaken by the students during camp:

- Prabhatferi and group meditation from day 2 to 6.
  - SwachhtaAbhiyann on day 2 and 3.
  - Awareness on Tobacco and Health Hygiene
  - Awareness session with Gana primary school girls on Menstrual hygiene
  - Tree plantation at primary school campus
  - Blood donation camp day-4
  - Survey for ODF re verification at Gana Indira Nivas
  - Free eye checkup and Catract screening camp on day 5. 18 people had received free cataract operation.
  - Free health checkup camp on day 6
  - Free cancer screening camp
  - ARIBAS NSS “VYASAN MUKTI” Programme was held at Gana Village.
- **Under NCSTC-DST Project entitled "Study of Water quality status and recommendations for future activities of various pond waters in Panchmahal and Dahod District, Gujarat" PI -Dr. Digvijaysinh Rana and Co-PI Dr. Shilpa Gupte organised awareness programme in different villages of Dahod, and Godhara on 4<sup>th</sup> Feb and 10<sup>th</sup> March respectively for sustainable utilization of pond water.**
  - As per the circular from UGC to make students conscious about national cleanliness drive “SWACHHATA DIWAS” was observed on first working day of every week (6/9/26 to 10/10/2016) in which students of participated in campus and class room cleaning.

## 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	160,000Sq.ft &16,776sq.ft Built up area + Girls Gymkhana(for hostel girls)	--	CVM	160,000Sq.ft
Class rooms	14	--	CVM	14
Laboratories	31	--	CVM	31
Seminar Halls	06 + 1	--	CVM	06 + 01 (auditorium)
No. of important equipments purchased ( $\geq$ 1-0 lakh) during current year.	---	1.BOD incubator 2.COD digester 3.Humidity chamber with Voltage stabilizer 4.Micripipette set 5.RTPCR – Master cyclor (Nexus)	GUJCOST GUJCOST UGC UGC GSBTM	01 01 01 01 01
Value of the equipment purchased during the year (Rs. in Lakhs)	---	Rs. 94,357/- (1,2) Rs.1,88,173/- (3) Rs. 11,434/- (4) Rs. 4,71,450/- (5)	GUJCOST UGC UGC GSBTM	Rs.7,65,414/-
Others- Printer (HP) Sp-1136	14	01	DST	10,600/-

#### 4.2 Computerization of administration and library

- Digitalization of attendance, marks, practical protocols etc. continuously updated.
- Books Digitalized for easy reference as study material.
- Bar-coding of all books in Library is completed and the process is continued.
- Expenditure incurred on purchase by faculty and Institute for practical's and research is transparent and available on Institute web site (getting updated regularly).
- NET-SLET and other competitive examination reference materials are made available on line and updated regularly and new materials added every year.
- Internal and external examination question papers are uploaded regularly.
- Cashless campus theme is introduced and started following. No cash transaction is now permitted in the Institute.
- Students are made aware of cashless economy and e-cash transactions through lecture by bank officials.

#### 4.3 Library services:

	Existing		Newly added		Total		
	No.	Value	No.	Value	No.	Value	
Text Books	5275	29,03,999/-	189	97,002/-	5464	Rs.30,01,001/-	
Reference Books	678	--	10	--	688	--	
e-Books	7524	5275/-	--	--	7524	Rs.5,275/-	
Journals	31	64,548/-	00	24,336/-	49	Rs.88,884/-	
e-Journals	--	-	--	-	--	-	
Digital Database	Lab. Practical protocols digitalized and updated		Lab. Practical protocols corrected, revisions are made and uploaded		All protocols are available in digital library		
CD & Video	212	--	73	--	285	--	
Others (specify) *Dissertation Thesis	1259	--	73+15	--	1347	--	
*Research Articles	281	--	--	--	281	--	
*Video Lectures	1800	--	--	--	1800	--	
*Presentations	68	--	00	--	68	--	
*Uni.Question Papers	83	--	74	--	157	--	
	Total						30,95,160/-

#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others Printers
Existing	114 + 06 Lap-tops	01	01	01	03	04	06	14
Added	01	--	--	--	--	--	--	01
Total	121	01	01	01	03	04	06	15

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

- **Two days Work-shop** on Bioinstrumentation was conducted on 17<sup>th</sup> and 18<sup>th</sup> of September, 2016 for undergraduate students of NV Patel College of pure and applied science and VP & RPTP Science College and total 32 students along with two faculty members have participated. The students have received information, exposure and demonstration of various instruments like UV-Visible Spectrophotometer, GC, HPLC and lab. Scale fermenter etc.
- **GSBTM** Sponsored five days **CRASH COURSE on NET-SLET** preparation for the graduate students of Gujarat was conducted twice in June (1<sup>st</sup> to 5<sup>th</sup>) and in December (24<sup>th</sup> to 28<sup>th</sup>) 2016. Total 104 students (50+54) attended from all over Gujarat with the involvement of 20 experts.
- **Hands on training Program** was arranged for @ 200 B.Sc. students was organised on 2<sup>nd</sup> February, 2017 in collaboration with VP-RPTP Science College.
- **Two days 'Workshop on BIOTECHNIQUES'** for B.Sc. Biotechnology, Microbiology and Genetics 6<sup>th</sup> semester students of NVPAS Students on 9<sup>th</sup> and 10<sup>th</sup> Feb.2017.
- Five days **INSPIRE INTERN SHIP** programme from 13<sup>th</sup> to 17<sup>th</sup> June 2016 for the science students of **XI and XII** classes to make them aware of basic sciences sponsored by **Department of Science and Technology, Govt. of India** (339 registered and 249 attended).
- As per the initiative of Government of Gujarat and India, steps were taken to implement e-governance. For this all the ARIBAS employee salary account linked with adhar card and PAN card. The purchase process, fees collection and any other kind of transactions are also through cashless transaction mode. Regarding that **Mr. Mukesh Pal, Branch Operations Manager, HDFC has given lecture on e-finance organized by Study Club of ARIBAS.**

4.6 Amount spent on maintenance in lakhs:

i) ICT	4,13,000/-
ii) Campus Infrastructure and facilities	97,269/-
iii) Equipments	17,893/-
iv) Others	13,250/-
Total:	5, 41, 412/-

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- As suggested by the IQAC, to improve laboratory skill required for good lab practices institute has organised two days' workshop/training program for semester II students of all courses on **Fundamentals of laboratory techniques** to make them aware about microscope, preparation of solutions, Buffers solutions etc.
- Guidance and help is provided to the students to get financial assistance by make them aware about different government scholarships. Specially, women cell put efforts for girls students about the single girl child scholarship and institute head encourages the meritorious students for INSPIRE fellowship for higher studies.
- **7 days CSIR-NET Crash Course** sponsored by **BT-Capacity Building cell, GSBTM, Gandhinagar** for college students to provide them guidance for the competitive exams.
- Organised school students visit to our institute and provide them basic information about the Biotechnology, to motivate the students towards basic science.
- Organised hands on training for under graduate students of different science colleges of Anand District.
- Strengthen the e- resources by addition huge video library covering all major biotech as well as competitive exam contents; physical library is also enriched by purchasing new titles of reference books.

#### 5.2 Efforts made by the institution for tracking the progression

- Restructuring of the seminar presentation and dissertation has been done.
- For all the students, starting from IGBT Sem I, seminar presentation is compulsorily on good quality research paper downloaded from Pubmed Central; the power point seminar is in front of whole of the class and evaluated by at least three teachers.
- The evaluation of dissertation, undertaken by final semester students, is done in three stages:
  - i. Project proposal evaluation by examiners in open seminar
  - ii. Mid- term evaluation in the form of poster presentation
  - iii. Final thesis evaluation and presentation
- Checking the thesis for Plagiarism has been made mandatory for all.
- To keep the track of the students, online attendance system has been developed.
- For every 30 students one counsellor is appointed who constantly monitor the attendance and academic record of individual student. if any student remained absent for consecutively for three days without permission, letter will be send to the parents regarding their wards absentees.
- As per academic schedule after each unit of the paper, quiz is conducted. On the basis of student performance each faculty can get the idea of different student ability and understanding of the topic. Subject relevant faculty also provide guidance to the poor performers.
- Every year institute organizes the Parents Teacher Meet and faculty members share the details of their ward's attendance, class interaction and academic performance. As the Internal marks are also available on line, parents and faculty can keep/track the internal performance of the students.

5.3 (a) Total Number of 

UG	PG	Ph. D.	Others
-	416	20	-

 students

(b) No. of students outside the state 

00
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(c) No. of international students: 

Nil
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	No	%		No	%
Men	140	32.11	Women	296	67.88

Last Year-2015-16						This Year 2016-17					
General	SC	ST	OB C	Physically Challenged	Total	General	SC	ST	OB C	Physically Challenged	Total
389	17	15	57	00	478	343	18	15	60	00	436

Demand ratio

Dropout %

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

- ARIBAS is as a centre for BT- Capacity Building cell (PG-BT-CBC) by Gujarat state biotechnology Mission. PG-BT CBC organised CSIR NET crash course of one week twice in a year before NET examination.
- ARIBAS e- library also contain separate module for CSIR-NET, GATE preparation books & other resources, which can be helpful to the students enormously.

No. of students beneficiaries 

94
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5.5 No. of students qualified in these examinations

NET 

7
---

 SET/SLET 

--

 GATE 

--

 CAT 

--

IAS/IPS etc 

--

 State PSC 

--

 UPSC 

--

 Oth 

1
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5.6 Details of student counselling and career guidance

- In student counselling system on every 30 student's one faculty as a counsellor is appointed.
- To monitor the counselling system on 3 counsellor one Head counsellor is appointed.
- To prepare the students for interview ARIBAS organised different modules in collaboration with CDC Center, CVM, V.V. Nagar and Globarina Pvt. Ltd.
- Institute has proactive Career Counselling Cell (C-cube) and Alumni Association of ARIBAS (A-cube) and students are asked for online registration.

No. of students benefitted 416

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
NIL	NIL	NIL	20

5.8 Details of gender sensitization programmes

- Women Cell of ARIBAS has organized **INTERNATIONAL WOMEN'S DAY** on 8th March, 2017, Dr. Manisha Gohel (M.D) was given a talk on : Fat & transfat: Facts & Myths. They have also organized Slogan Writing and Poster Exhibition on gender sensitization
- RUSA project approval board, New Delhi, approved amount of Rs.3, 87,596/- under component 9, Equity Initiatives, for ARIBAS for 2014-2017, under the 12<sup>th</sup> plan period.

5.9 Students Activities

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

State/ University level 102 National level 5 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	10	5,00,000
Financial support from government	53	14,88,686
Financial support from other sources	02	7,39,076
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  National level  International level

5.12 No. of social initiatives undertaken by the students

- As per the circular from UGC to make students conscious about national cleanliness drive “SWACHHATA DIWAS” was observed on first working day of every week (6/9/26 to 10/10/2016) where students have participated in campus and class room cleaning. This was managed by NSS club.
- ARIBAS NSS club has signed MOU with Gana Grampanchyat. The institute has adopted the Gana Village on 23<sup>rd</sup> September 2016. Various activities were undertaken by the club members and student related to **environmental protection, conservation, awareness and health protection** etc.
- The NSS club has also organized **NSS Camp** and during it following activities was conducted.
  - Tree plantation at primary school campus

- Survey for ODF verification at Gana Indira Nivas
- Prabhatferi and group meditation
- Blood donation camp
- Awareness on Tobacco and Health Hygiene
- Awareness session with Gana primary school girls on Menstrual hygiene
- Free eye checkup and Cataract screening camp (18 people had free cataract operation).
- Free health checkup camp and cancer screening camp
- ARIBAS NSS “VYASAN MUKTI” Programme

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

The emblem of ARIBAS consists of DNA Flanked by two letters B & T, which represents biotechnology. The motto of the institute, DNA meaning do nothing average. Together the emblem represents research excellence in biotechnology.

**Vision:** ARIBAS aspires to be a global landmark of intellectual excellence. The institute embodies the passion for research and quality education, at undergraduate, post graduate and doctorate level in the field of applied sciences. It adopts a comprehensive approach to create resourceful and conducive environment for students to acquire discerning skills pertinent for the pursuit of knowledge integrity and freedom.

**Mission:** Established in 21<sup>st</sup> century, ARIBAS infuse the strengths of the experimental learning with research centered spirit, its principal aim is to earn peer and public appreciation and fulfill the academic, economic and professional expectation of state national and international communities.

#### 6.2 Does the Institution has a management Information System

Yes, Institute has very transparent management system.

**Management** is headed by Chairman, with support of secretaries and joint secretaries. Management holds meetings with director and staff members to evaluate policy matters and implementation of plans.

**Head of institute** holds regular meetings with Head's of the Departments, faculties, Technical staff, administrative staff, and research scholars to discuss and form new strategies for various institutional program.

**Faculty:** The institute adopts the policy of monthly meeting with HODS and teaching staff for the proper coordination of institutional policies matters, difficulties faced by faculty in academic, research and other ventures.

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

##### 6.3.1 Curriculum Development

- A new course, M.Sc. in Forensic Sciences is approved by Sardar Patel University, Vallabh Vidyanagar. Institute is going to start this course from June, 2017.
- BOS of Biosciences, Chemistry and Genetics have made Core Committee for revision of higher semester syllabus. Revision of syllabus for all M.Sc. courses is under process and Institutional and Departmental Heads of institute are appointed as one of the member of the syllabus framing committee.

### 6.3.2 Teaching and Learning

To improve the academic standard various measures were adopted by the Institute in current year:

- Personality development classes through career development centre are conducted for all the students to improve student's competence in English, self-awareness and self-management.
- To improve laboratory skill required for good lab practices institute has organized two days' workshop/training program for semester II students of all courses on fundamentals of laboratory techniques to make them aware about microscope, preparation of solution pH Buffers etc.
- To create awareness about carrier opportunities and scholarship provided by government in basic sciences, a DST sponsored Second Inspire camp was organized for 11<sup>th</sup> and 12<sup>th</sup> students from 13<sup>th</sup> to 17<sup>th</sup> June 2016. 339 students from five different district of Gujarat states attended the workshop.
- GSBTM, Gandhinagar has entrusted our Institute as one of the centre for PG BT-CBC (Biotech capacity building cell). Under its support, this year institute has successfully organized 02 crash courses of 5 days. In which total 104 students were participated and trained for CSIR –NET examination from all over the Gujarat state.
- Similarly, for undergraduate Students, institute has organized hands on training program on bioinstrumentation and bio techniques.
- Symposium/ Hands on training program for undergraduate students were organized in collaboration with sister concern institute of our management. Students were trained in usage and application of basic instruments used in pharmaceutical industry.

### 6.3.3 Examination and Evaluation

- Seminar presentation is a part of all courses curriculum, to develop research aptitude among the students; Paper presentation has been implemented at all level of M.Sc. and Integrated M.Sc. courses.
- The evaluation of dissertation, undertaken by final semester students, is done in three stages i.e. Project proposal evaluation by examiners in open seminar, mid-term evaluation in the form of poster presentation and final thesis evaluation and presentation. Research methodology workshops are regularly conducted for the final year students.
- Checking of thesis for plagiarism is made compulsory
- University has implemented in house practical and theory viva voce examination pattern from November, 2015.

#### 6.3.4 Research and Development

- Four research projects and three training program assistance were received by ARIBAS from various funding agencies, DST (Indo-Hungarian), GSBTM, GUJCOST for Training program and research work.
- Currently 12 faculties are recognized Ph.D. guide from Sardar Patel University, Vallabh Vidyanagar.
- Three research scholars have been submitted thesis for Ph. D. degree by S.P University.
- 32 research papers were published in reputed journals during the academic year 2016-2017.
- 19 research articles were presented by research scholars in national and international seminars/ Conferences.
- Six new research projects and one training program assistance have been submitted to various funding agencies in current year.

#### 6.3.5 Library and physical infrastructure/instruments

- All the books have been barcoded and book issue/ return process is done by barcoded enabled system which was established from last year.
- This year Library is enriched by 207 new reference/ text/competitive exam books, for competitive examination (NET/ GATE) and for which GSBTM has provided the fund.
- New periodicals (10) and Magazines (07) were also purchased.
- E -Library is enriched by new addition of books and dissertation thesis. The library is enriched by total 1347 dissertation thesis and 7524 e-books.
- Revised lab protocol and teaching plans were also updated on D space.
- Institute has generated video lecture series for CSIR Net examination.
- Instrument facilities are enriched by addition of five new instruments from different research funding agencies like UGC, GSBTM, GUJCOST.

#### 6.3.6 Human Resource Management

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### 6.3.7 Faculty and Staff recruitment

Recruitment as per norms of Sardar Patel University and Charotar Vidhyamandal

### 6.3.8 Industry Interaction / Collaboration

Three research proposals were submitted for collaborative research work.

(i) Two Research proposals were submitted in collaboration with AAU Anand and G and J.

Ayurvedic college New Vallabh Vidyanagar of Rs 54,14,880/-.

(ii) One Consultancy project was submitted to Reliance Hazira Surat of Rs, 10,60,000/-

### 6.3.9 Admission of Students

Efforts for improvement of ARIBAS student's strength, following measures have been undertaken;

- **Inspire summer and winter camp for IGBT (DST)** was organized, 339 students from various districts of Gujarat have attended the camp.
- **BT-Capacity Building cell (PG-BT-CBC):** By GSBTM, Gandhinagar ARIBAS was a centre for BT- Capacity Building cell for the conduction of crash workshop for preparing PG students for National competitive examination. Two times NET Crash Course workshop were organized in current year. Total 104 students from different colleges attended the workshop.
- **Personal counseling in schools & in Colleges:** 85 schools and students from various B.Sc colleges of Gujarat and Anand District have visited ARIBAS and counsel for career opportunities in respective fields.
- **Training at ARIBAS: More than 338** B. Sc. students from Anand and other district of Gujarat state were given hands on training on general analytical techniques used in industry.

6.4 Welfare schemes for

Teaching	--
Non teaching	--
Students	--

6.5 Total corpus fund generated

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6.6 Whether annual financial audit has been done



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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	YES	KCG	YES	IQAC
Administrative	YES	KCG	YES	IQAC

6.8 Does the University/ Autonomous College declare 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?

University time to time circulate the notice as per UGC revised/new guidelines.
---

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

Two faculty members of our institute are senate member of Sardar Patel University.

Four faculty members are the member of PG Board of Studies of Bioscience and Two of Chemistry board.

6.11 Activities and support from the Alumni Association

A meeting of ARIBAS Alumni Association with Departmental Heads was held on 20<sup>th</sup> Feb 2017. One of the alumni has generously taken initiative to offer support financially to M.sc. Genetics student by paying fees.

6.12 Activities and support from the Parent – Teacher Association

Parent teacher meet has been arranged on 4<sup>th</sup> March 2017 to strengthen parent teacher relationship and to get feedback/ suggestion from the parents regarding curriculum, administration part.

6.13 Development programmes for support staff

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

To Make Campus eco-friendly following programs have been organized in current year.

- SWAN Club and NSS members of institute had organized a “Green campus program” at institute in which more than 110 plants have been planted in the surrounding area of the campus.
- As per UGC circular Swachhata Diwas was observed on first working day under which campus cleanliness program were done by NSS volunteers to make students conscious about national cleanliness drive.
- ARIBAS has also taken initiative to educate village people located in nearby campus area during NSS camp by organizing Swachhata Abhiyan program.



## **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.**

To develop research aptitude among the students at an early age, restructuring of the seminar presentation and dissertation has been done. For all the students, starting from semester I, seminar presentation made compulsory on good quality research paper downloaded from Pubmed Central. Students asked not to select the research paper from the journal containing the word such as International or World in their title. The power point seminar is in front of whole of the class and evaluated by at least three teachers.

The **evaluation of dissertation**, undertaken by final semester students, is **done in three stages**:

- i. Project proposal evaluation by examiners in open seminar
- ii. Mid- term evaluation in the form of poster presentation
- iii. Final thesis evaluation and presentation

Checking the thesis for **Plagiarism** has been made mandatory for all.

The student's **internal results** made **online**, so that students and their parents can assess the same from website.

**Personality Develop Classes (PDP)** through CVM-Career Development Centre-Globerina conducted two sessions (9 -10 January, 2017 and 1-2 March, 2017) to improve students Competency in English, Self awareness and Self management.

As suggested by the IQAC, to improve laboratory skill required for good lab practices institute has organised two days' workshop/training program for semester II students of all courses on **Fundamentals of laboratory techniques** to make them aware about microscope, preparation of solution pH Buffers etc.

Due to an upsurge in education industry, each region of gujarat becoming self sufficient in higher education. As to sustain in the changing scenario of education, ARIBAS has decided to focus locally especially Anand and Kheda district, Ahmedabad and Baroda. For this purpose M. Sc. IGBT faculties personally visited more than 90 schools in and around Anand, Baroda and Ahmedabad.

ARIBAS is actively involved in dispersion of awareness about the **career options and government fellowships** available at various levels of education. Therefore, the girls students, economically backward students and certain bright students may receive benefit for their higher education.

DST, New Delhi Sponsored INSPIRE Internship Camp for the School students from 13<sup>th</sup> to 17<sup>th</sup> June 2016 was organized to ignite the young minds. The camp was absolutely free for students and all the expenses towards food, lodging and travel were managed by ARIBAS from the grant received. 339 students from Anand and Kheda district, Vadodara, Ahmedabad and Nadiad, Surat, Aklaeshwar, Godhara were registered for the camp out of which 249 students have attended the camp for 5 days. During the camp, students got an opportunity to interact with eminent scientists and subject experts. Besides, learning the intricacies of basic sciences students got hands on training and career guidance.

As per the initiative of Government of Gujarat and India, steps were taken to implement e-governance. For this all the ARIBAS employee salary account linked with adhar card and PAN card. The purchase process, fees collection and any other kind of transactions are also through cashless transaction mode.

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

As per the IQAC meetings, different strategies and action plan were decided and according to them following steps were initiated by the institute:

- Student's strength is one of the biggest challengefaces by many private institutes. Therefore, institute around the year do different activities for the improvement of the admission. Every year the admission counseling process within the state is initiated by the management as well as at the institutional level well in advance before the new academic session begins.
- Due to an upsurge in Education Industry, each region of Gujarat becoming self sufficient in higher education. As to sustain in the changing scenario of education, ARIBAS has decided to focus locally especially Anand, Kheda, Ahmedabad and Baroda. For this

purpose M. Sc. IGBT faculties personally visited more than 90 schools in and around Anand, Baroda and Ahmedabad.

- During Education Fair team of faculty members including head of the institute visited different places of Gujarat state, interact with students and parents and provide them proper guidance for different opportunities in science field. Over at institutional level, more than 90 schools and 8 colleges covered to counsel the students.
- Following are the highlights of various programs conducted by the institute:
  1. **5 days INSPIRE Internship Camp** sponsored by DST, New Delhi for school students.
  2. **7 days CSIR-NET Crash Courses** sponsored by **BT-Capacity Building cell (PG-BT-CBC)** by **GSBTM, Gandhinagar** for college students to provide them guidance for the competitive exams.
  3. **Training at ARIBAS for college students** on Biotechniques related to genetics, microbiology, pharmaceuticals science, Bioinformatics, Molecular biology and general analytical techniques used in the industry.
  4. **Scientifiq – 2017 competition programme** was organized by the institute for school and undergraduate students to inculcate scientific temperament and spirit.

### **7.3 Give two Best Practices of the institution**

As mentioned earlier ARIBAS still implementing both the best practices (“**E-Resources / Digital library** and **Student Counseling**”). However, strengthening/ improvement of the **D - space** was made with followings:

- As a part of e governance, Video lecture library was prepared
- Total Digital Book resources 7524
- Thesis 88 were added and total thesis are 1347
- Practical Protocols for all the courses were updated
- Online teaching plan is uploaded and syllabus is linked with physical and digital library resources.
- Internal and external question papers & total no. are 157
- Copy of Annual reports
- Online student attendance (Date, subject, lecture and practical wise)
- Online Internal results display

#### 7.4 Contribution to environmental awareness / protection

- **SWAN club of ARIBAS had** organised a “Green Campus Program” at ARIBAS on 12-08-2016. 110 plants were provided by Forest Department, Anand, planted by the SWAN members and out of them 94 plants are live as on today.
- SWAN club has also organised Two days **Nature camp** at KODADHA - (LITTLE RANN OF KUTCH on 24-25<sup>th</sup> Feb 2017).
- As per the circular from UGC to make students conscious about national cleanliness drive “SWACHHATA DIWAS” was observed on first working day of every week (6/9/26 to 10/10/2016) where students have participated in campus and class room cleaning. This was managed by NSS club.
- ARIBAS NSS club has signed MOU with GanaGrampanchyat. The institute has adopted the Gana Village on 23/9/16. Various activities were undertaken by the club members and student related to **environmental protection, conservation, awareness and health protection** etc.
- The NSS club has also organized **NSS Camp** and during it following activities was conducted.
  - Tree plantation at primary school campus
  - Survey for ODF re verification at Gana Indira Nivas
  - Prabhatferi and group meditation
  - Blood donation camp
  - Awareness on Tobacco and Health Hygiene
  - Awareness session with Gana primary school girls on Menstrual hygiene
  - Free eye checkup and Cataract screening camp (18 people had free cataract operation).
  - Free health checkup camp and cancer screening camp
  - ARIBAS NSS “VYASAN MUKTI” Programme
- **Community Services was also provided** Under NCSTC-DST Project entitled "Study of Water quality status and recommendations for future activities of various pond waters in Panchmahal and Dahod District, Gujarat". Project investigator Dr. Digvijaysinh Rana and Co-PI Dr. Shilpa Gupte organized three awareness programme in different villages of

Dahod, Godhara and Lunawal where they have provided guidance to the local people regarding maintenance and proper utilization of water resources.

#### **7.5 Whether environmental audit was conducted? Yes**

- **SWAN club of ARIBAS had** organised a “***Green Campus Program***” at ARIBAS on 12-08-2016. 110 plants were planted by the SWAN members which were provided by Forest Department, Anand, out of them 94 plants are live as on today.
- Institute and CVM are always conscious for sustainable use of different resources and continuously take care for electricity consumption, gas consumption and water resource management.

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

- Proposal submitted for setting up of Incubation Centres under Atal Innovation Mission - ‘Atal Incubation Centres’ to NITI Aayog, Govt. of India to promote a culture of innovation & entrepreneurship among youth.
- Ministry of Human Resource and Development of India have initiated the ranking of all the Indian universities through the National Institutional Ranking Framework (NIRF) based on Teaching & Learning Resources, Research, Professional competence, Social outreach activities etc. Institute has offered itself for evaluation and getting ranked.
- Poor student strength is one the challenges face by the institute and in reference to that we have made effective efforts for the improvement in the student’s strength. For the same we have organized different workshop/training programmes throughout the year. As a part of INSPIRE programme, the school students received the exposure of molecular biology and tissue culture techniques. They interacted with eminent scientists and subject experts practically as well as theoretically. In case of other M.Sc programme we have organized different training/workshop programmes for undergraduate students where they got exposure of molecular biology techniques, tissue culture methods, bioinformatics and general analytical techniques utilize by the industries.
- For ARIBAS students to improve laboratory skill we have conducted two days’ workshop/training program for semester II students of all courses on Fundamentals of laboratory techniques and Research Methodology programme for final semester students.

## **8. Plans of institution for next year**

**Strive for a continuous improvement is always a path of success. Followings are certain plans for the upcoming academic year.**

1. Systematic and vigorous efforts will be made by the institute to increase the student's strength
2. Institute will take all corrective measures to enhance teaching and learning process.
3. All necessary steps will be taken to strengthen physical & digital library content.
4. Emphasize will be given to the research work and for the same faculties will be promoted to submit more number of proposals to different funding agencies.
5. Emphasis will be given on entrance exam preparation activity especially for National Eligibility Test exams sponsored by GSBTM.
5. As institute has reapplied for DST sponsored Science Camp under INSPIRE programme, if again get chance science camp will be reorganized for school children.
6. Institute will organize different workshop/awareness programmes/orientation programmes for school and colleges students throughout the year as part of social outreach activities.
7. To enhance skill base learning approach institute has submitted Proposal submitted for setting up of Incubation Centres under Atal Innovation Mission - 'Atal Incubation Centres' to NITI Aayog, Govt. of India to promote a culture of innovation & entrepreneurship among youth.

**Name: Dr. Shilpa Gupte**

**Name: Dr. Nilanjan Roy**

**Signature of the Coordinator, IQAC**

**Signature of the chairperson, IQAC**

# ACADEMIC CALENDAR 2016-17

June		MON TUE WED THU FRI SAT SUN							MON TUE WED THU FRI SAT SUN							September							
19	Semester opening																					Remedial classes for late admitted students	1-24
19-17	INSPIRE Internship (camp/ Admission counseling)			1	2	3	4	5				1	2	3	4							Activity by SWAN club	6
20	Orientation program for first semester	6	7	8	9	10	11	12	5	6	7	8	9	10	11							Thalassemia and Eye check up check up for the first semester students by BIR club	8
20	Classes and Lab	13	14	15	16	17	18	19	12	13	14	15	16	17	18							Activity by Scientific Club	22
21	International Yoga Day	20	21	22	23	24	25	26	19	20	21	22	23	24	25							Internal exam of late admitted students	26-5
27	Dissertation allotment to M. Sc. Student	27	28	29	30				26	27	28	29	30									Poster presentation by Dissertation students	26

  

July		MON TUE WED THU FRI SAT SUN							MON TUE WED THU FRI SAT SUN							October							
17	Blood donation camp by Red Ribbon Club																					Last day to be considered for attendance	7
19	Invited Lecture by GYAN Club					1	2	3	31					1	2							Activity by Bhawal Cultural Club (Haravati)	8
20	Activity by Year Normal Study Circle	4	5	6	7	8	9	10	3	4	5	6	7	8	9							Thesis submission by dissertation students	10
		11	12	13	14	15	16	17	10	11	12	13	14	15	16							External Examination	17-3
		18	19	20	21	22	23	24	17	18	19	20	21	22	23							Dwali Vacation	31-12
		25	26	27	28	29	30	31	24	25	26	27	28	29	30								

  

August		MON TUE WED THU FRI SAT SUN							MON TUE WED THU FRI SAT SUN							November							
8-13	Internal Theory Examination																					Dwali vacation	31-12



## ACADEMIC CALENDAR 2016-17

December		MON TUE WED THU FRI SAT SUN							MON TUE WED THU FRI SAT SUN							March							
26-01	NBS Camp																					Branch selection by VI sem students	03
29-04	Educational Tour																					Parents teacher meeting	04
5	Semester Opening	5	6	7	8	9	10	11	6	7	8	9	10	11	12							Submission of the mark sheet to HOD by faculty	20
5	Vice-Voice IGBT Sem XI	12	13	14	15	16	17	18	13	14	15	16	17	18	19							Thesis submission (M/BI/OT)	22
05-10	Research Methodology Workshop IGBT Sem X & M. Sc. Sem IV	19	20	21	22	23	24	25	20	21	22	23	24	25	26							Internal result display on website	23
05-10	Orientation Program for Sem II (IGBT & M. Sc.) students	26	27	28	29	30	31	27	28	29	30	31									Correction in mark sheets by students and faculty	30	
16	Dissertation Allotment to IGBT X Students																					Corrected Mark sheet HOD to Academic committee	31
11	Sports Day/Pool Festival																						

  

January		MON TUE WED THU FRI SAT SUN							MON TUE WED THU FRI SAT SUN							April							
8	Invited Lecture by Gyan Club																					External Examination	27/Jan-30
7	Rite Flying	30	31					1															
11	COHORT – by Red Ribbon club	2	3	4	5	6	7	8	3	4	5	6	7	8	9								
11	Activity by Scientific Club	9	10	11	12	13	14	15	10	11	12	13	14	15	16								
16-22	Days Celebration	16	17	18	19	20	21	22	17	18	19	20	21	22	23								
23-30	Internal Theory Examination	23	24	25	26	27	28	29	24	25	26	27	28	29	30								
27-30	IQAC Audit																						

  

February		MON TUE WED THU FRI SAT SUN							MON TUE WED THU FRI SAT SUN							May							
01-04	Internal Practical Examination																					Summer Vacation	01-10/05
06-08	Seminar																						
08	Poster presentation by Dissertation students (M/BI/OT)																						
17/18	Annual Day/Alumni Meet/Umangotsav	6	7	8	9	10	11	12	8	9	10	11	12	13	14								
30	Activity by Year Normal Study Circle	13	14	15	16	17	18	19	15	16	17	18	19	20	21								
24	Activity by Women's Cell	20	21	22	23	24	25	26	22	23	24	25	26	27	28								
24	SWAN	27	28						29	30	31												

  

List of holiday			
05-12-2016	Christmas	23-03-2017	Good Friday
14-01-2017	Makarzan	09-04-2017	Ban Navmi
28-01-2017	Republic Day	08-04-2017	Mahavi Jayanti
24-02-2017	Mahavikranti	14-04-2017	Aradhakar Jayanti, Good Friday
12-03-2017	Holi	18-04-2017	Pancharami Jayanti

  

<span style="background-color: #d9ead3;">■</span> Teaching Day	<span style="background-color: #f2dede;">■</span> Internal Practical Exam
<span style="background-color: #d9ead3;">■</span> Event at ARIBAS	<span style="background-color: #f2dede;">■</span> Internal Theory Exam
<span style="background-color: #d9ead3;">■</span> In the Week	<span style="background-color: #f2dede;">■</span> External Practical Exam
<span style="background-color: #d9ead3;">■</span> Holiday	<span style="background-color: #f2dede;">■</span> External Theory Exam

  

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**ARIBAS**

**Feedback from Parents**

A Parents-Teachers Meeting was organized by ARIBAS on 4<sup>th</sup> March 2017. Total 10 parents of students from M. Sc. Integrated Biotechnology Semester II to VI came personally to meet teachers; 06 parents were contacted on phone. The feedback from the parents was taken on various aspects and is summarized below:

**Syllabus**

- All the parents found syllabus to be good or satisfactory.

**Extra-curricular Activity**

- Parents were satisfied with the extracurricular activities organized by various clubs and forums of ARIBAS.

**Teaching**

- In general parents were satisfied with the teaching quality of ARIBAS.
- Internal Examination performances of wards were discussed with the concerned teachers.

**Administration**

- By and large parents were satisfied with the administration and found it to be efficient and cooperative.

**Remedial action taken**

- The remedial classes are being run to help weak students or those who have taken late admission in Semester I.
- In higher semesters (PG courses and IGBT Sem VII to X), tutorial class is allotted to each of the course where weak students can have personal attention and bright students will have extra time to discuss topics not covered in syllabus but may be important from competitive examination view point.

**Others**

Through the academic session the parents were informed on phone or through letters about irregularity of their ward or any other related matter. Depending on the situation parents were even asked to meet personally. Some of the cases are mentioned below:

1. One of the students of M.Sc. Genetics 4<sup>th</sup> semester was irregular in attending lectures and practical as well as not performing dissertation project work. His father was



- informed telephonically and he came to the college for discussion with counselor, HOD and dissertation supervisor.
2. One student of M. SC. Genetics Sem II due to weak financial background was unable pay his tuition fees, the case was discussed with his mother and the problem was solved by generous help from one of the alumni.
  3. Seven parents of students of M. Sc. Microbiology Sem II were informed telephonically as well as through letters about poor performance of their ward in Internal Theory examination and were also asked to attend PTM.
  4. Both HOD and counselor talked to parents of one the student of M. Sc. Microbiology Sem II about his irregularity in the college.
  5. Parents of student of M. SC IGBT Sem II have been informed about poor performance of their ward and are asked to visit college.
  6. Parents of 03 the students of IGBT – GBT Sem VIII were called due to irregularity or poor performance of their ward. Parent of only one of the student came, discussion was held in the presence of HOD, the student was counseled after which she became regular.
  7. Parents of six students of M. SC. IGBT-IBT sem VIII were informed telephonically and through letter about low attendance and poor performance of their ward in Internal Theory examination and are asked to meet counselor and HOD personally.

In general, it was observed that whenever the parents were informed about the irregularity or poor performance of the students they cooperate and appreciate the faculty and college management for their efforts. However, there are certain parents who are indifferent and do not respond.

## ARIBAS

### Feedback from Students

The feedback from the students was taken on broadly three aspects; each was then further divided into subheadings:

(I) **EXPLICIT CURRICULUM:** (10 subheadings)

How well does the teacher teach the core subject?

(II) **IMPLICIT CURRICULUM:** (05 subheadings)

How well does the teacher model the core values?

The evaluation was done on a five-point scale: **1** = Poor **2** = Average **3** = Good **4** = Very Good **5** = Excellent

### ANALYSIS

All the students of ARIBAS participated in this activity and an analysis of their compiled feedback is presented below:

- **EXPLICIT CURRICULUM**

Out of total 22 teachers evaluated, one teacher was graded excellent, 20 teachers were in the category of very good and one teacher was good. In general, students are satisfied with the teacher's knowledge of the core subject and its dissemination to them.

- **IMPLICIT CURRICULUM**

Out of the 22 teachers, 16 teachers were graded as very good in terms of practicing model core values, whereas, 6 six were graded as good. Students showed trust deficit towards three teachers.

### Remedial action taken:

Discussion in the faculty meeting on maintaining quality in teaching, earning student's trust and fulfilling student's expectations. Emphasis was given on improving student's placement. Institute is already helping students in getting jobs in industry through its Career Counseling Cell; CSIR Crash Course sponsored by GSBTM, Gandhinagar is being conducted twice a year to prepare students for qualifying National Entrance Test / Examination for admission in Ph. D. program of various research institutes or Universities. A new initiative has been taken to provide information to students about relevant courses offered by various foreign universities for higher studies.

An overall improvement in the grading of teachers is observed well this year in comparison to previous year. This is a good sign and reflects consistent efforts made by the teachers towards excellence.