

**Annual Quality Assurance Report**

**(AQAR)**

**Submitted by**

**CharutarVidyamandal'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 Fourth AQAR report

Ref: Track Id.: GJCOGN17123

Dear Sir,

We herewith submit the softcopy of Fourth AQAR of academic year 2017-18.

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 2017-July 2018)

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 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:

#### 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\_2017-18 submitted to NAAC on 05/04/2018 (DD/MM/YYYY)

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)

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 (*Specify*)

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

04

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

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

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

To improve academic standard and internal evaluation process, effective efforts were made by IQAC team and all faculty members. For the same following activities have been conducted over the year.

- **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 110 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.
- **Department of Pharmaceutical Chemistry** organized hands on training Program for undergraduate students on “Fundamental Laboratory Practices in Pharmaceutical Industry” on 8<sup>th</sup> & 9<sup>th</sup> February 2018. Total 173 students from Sciences colleges of Anand district attended the training program.
- **Two days Hands on Training programme on Bioinstrumentations** was organized by Scintifiq club of ARIBAS from 6 – 7<sup>th</sup> of September 2017. Total 40 undergraduate students of N.V. Patel Science College and V.P & R.P.T.P Science College, V.V. Nagar have participated. The students have received information, exposure and demonstration of various instruments like Lab. Scale Fermenter, U.V-Visible spectrophotometer, Gas Chromatography and HPLC.
- Regularly Internal IQAC audit of teaching and non-teaching staff was done for verification and updation of the documents. The report was discussed in faculty meeting for corrective measures.
  - Steps were taken to strengthen physical & digital library content.
  - Organising **one day state level camp on 15<sup>th</sup> April 2018 for Vidyarthi Vigyan Manthan** and initiative of Vijnana Bharati (VIBHA) in collaboration with NCERT an institution under the Ministry of Human Resource and Development and Vigyan Prasar, an autonomous organization under the Department of Science and Technology, GOI.

## 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

\* *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 Syndicate       Any other 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. Application is submitted to conduct DST sponsored Science Camp under INSPIRE programme.
6. Organising **one day state level camp on 15<sup>th</sup> April 2018 for Vidyarthi Vigyan Manthan** and initiative of Vijnana Bharati (VIBHA) in collaboration with NCERT an institution under the Ministry of Human Resource and Development and Vigyan Prasar, an autonomous organization under the Department of Science and Technology, GOI.

## 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	06		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	05
Total	14	Nil	15	05

Innovative				<p style="text-align: center;"><b>05</b></p> <p><b>1 &amp; 2.</b> Organized two GSBTM, Gandhinagar sponsored <b>CSIR-NET Crash Course of 6 days</b> (6<sup>th</sup> June to 11<sup>th</sup> June 2017 and 25<sup>th</sup> to 30 November 2017).</p> <p><b>3. Personality Development Program</b> for all M.Sc. Courses students was done on 4<sup>th</sup> &amp; 5<sup>th</sup> Jan 2018.</p>
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				<p><b>4. Research Methodology</b> 21<sup>st</sup> &amp; 22<sup>nd</sup> Dec 2017 for M.Sc IGBT Sem X and M.Sc Biotechnology, Microbiology, Genetics and Pharmaceutical Chemistry Sem IV students.</p> <p><b>5. Organising one day state level camp for Vidarthi Vigyan Manthan</b> and initiative of Vijnana Bharati (VIBHA) in collaboration with NCERT an institution under the Ministry of Human Resource and Development and Vigyan Prasar, an autonomous organization under the Department of Science and Technology, GOI.</p> <ul style="list-style-type: none"> <li>• The program is for school students of Std VI to XI (science).</li> </ul> <p><b>Proposals submitted</b></p> <ul style="list-style-type: none"> <li>• Proposal submitted to DST, New Delhi for DST-Inspire Summer Camp-2017 (<b>status Pending</b>).</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	06
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 & IV

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

- The revised syllabi of all the courses have been implemented from the new academic session i.e June 2017.
- ARIBAS proposal to the University for revision of eligibility criteria for admission in M. Sc. Integrated Biotechnology has been accepted and now students of both A and B groups are eligible to take admission in M. Sc. Integrated biotechnology course, which is now of five years only w.e.f. June 2017.

**1.5 Any new Department/Centre introduced during the year. If yes, give details: None**

## Criterion – II

### 2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
20	16	03	01	00

2.2 No. of permanent faculty with Ph.D.

17

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

02

00

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	01	03	05
Presented	04	01	00
Resource Persons	01	00	00

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

Following innovative processes adopted by the institution to enhance academic performance:

- 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 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.
- 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 followed even in this year. Attendance of practical is also made online besides student profile, attendance, result, 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, Ghandhinagar, ARIBAS has organized five days crash course on CSIR NET twice where in 110 students were trained in toto.
- E-resources have centralized laboratory protocols and are updated as per current semesters.
- To strengthen the physical library contents 117 books were purchased this year. The current physical library content is Books: 5575, Journals and Magazine: 10, Dissertation Thesis: 1475, CDs: 125.
- D-space content is timely enriched and updated.
- A new video lecture library covering all delivered lectures during crash course on CSIR NET is also created.

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

2.8 Examination/ Evaluation Reforms initiated by the institution

(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
- Two day Workshop on “Fundamental Laboratory techniques” for Second semester students of all branches was conducted to teach students Basic laboratory procedures, Microscopic techniques, Bioethics, Health and safety.
- Personality Develop Classes (PDP) through our Career Development Centre was conducted on 1st and 2nd March 2017 and Second Round of Personality Develop Classes (PDP) was conducted on 4th and 5th January, 2018. Various topics, acquiring competence in language, self-awareness and competency mapping as well as emotional intelligence and stress management covered during the PDP classes.
- Deepali Paun, Sr. Associate in Patent from Y. J. Trivedi & co. Ahmedabad was called for lecture on Jobs in Patent related work.
- Research Methodology workshop was organized 20<sup>th</sup> and 21<sup>st</sup> December 2017 for M. Sc. IGBT Sem. X / M. Sc. Micro/Biotech/Genetics & Pharmaceutical Chemistry Sem IV. 80 students attended the workshop. Topic of the research methodology workshop includes Finding and citing published information, Evaluating Information, Using online resources, Analysis and presentation of data: Tabulation, graphical presentation and Statistical Analysis of data and its significance, General aspects of scientific writing, Reporting project work, Writing literature surveys and reviews, Bioinformatics - internet resources, Nucleotide and Protein Databases, Phylogeny, Synteny, Organizing a poster display, Giving a spoken presentation.
- 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	05
Member of Board of Study	06
Member of Senate	02

2.10 Average percentage of attendance of students

82.4 %

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	326	44.00	34.15	18.77	00	00
M.Sc. Biotechnology	10	00	70.00	30.00	00	00
M.Sc. Microbiology	29	10.34	55.17	17.24	00	00
M.Sc. Genetics	5	60	40	00	00	00
M.Sc. Pharmaceutical chemistry	5	80	20	00	00	00
M. Sc. Forensic Science	2	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

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
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 (UGC-HRD centre SPU)
Staff training conducted by other institutions	00
Summer / Winter schools, Workshops, etc.	00
Others	01 [workshop on Excel-for Class IV by Clerical staff of the institute]

### 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	06	00	00	00
Technical Staff	25	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	05	01	01
Outlay in Rs. Lakhs	00	159.64956	124	10.6

#### 3.3

##### Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	00	01	0	00
Outlay in Rs. Lakhs	0	2.25	0	0

## 3.4

## Details on research publications

	International	National	Others
Peer Review Journals	36	00	00
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	2017	UGC + DST- NCSTC + GSBTM + GSBTM	72,78,956/-	21,57,160/-
Minor Projects	2017	GUJCOST	2,25,000/-	0/-
Interdisciplinary Projects	2017	DST	86,86,000/-	0/-
Industry sponsored	-	-	-	-
Projects sponsored by the University/ College	-	-	-	-
Students research projects <i>(other than compulsory by the University)</i>	-	-	-	-
Any other(Specify)	-	-	-	-
Total			161,89,956/-	21,57,160/-

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 conference 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

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
0	-	-	-	-	-	-

3.18 No. of faculty from the Institution

09

who are Ph. D. Guides

and students registered under them

11

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

06

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

JRF

03

SRF

04

Project Fellows

02

Any other

0

3.21 No. of students Participated in NSS events:

University level

-

State level

-

National level

-

International level

-

3.22 No. of students participated in NCC events:

University level

-

State level

-

National level

-

International level

-

3.23 No. of Awards won in NSS:

University level

-

State level

-

National level

-

International level

-

3.24 No. of Awards won in NCC:

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

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="07"/>
		Any other	<input type="text" value="02"/>

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

- To mark the beginning of the new session Satyanarayan puja and orientation program for Semester I students of the courses were organized on 10<sup>th</sup> July, 2017.
- International Yoga day was celebrated jointly with ADIT on 21<sup>st</sup> June'2017. It was coordinated by Sports Committee. ARIBAS.
- Gyan forum organized 1 lecture and 2 Research Methodology Workshops for M. Sc. IGBT 10<sup>th</sup> semester as well as M. Sc. Micro/Biotech./Genetics & Pharmaceutical Chemistry 4<sup>th</sup> semester. A Parents-Teachers Meeting was organized by ARIBAS on 10<sup>th</sup> March 2017.
- Scientific Club organized **SCIENTIFIQ-2018** event on 10<sup>th</sup> January 2018. Total 139 students of various schools and colleges have enrolled. They have enthusiastically participated in various events like Poster presentation, Elocution, Scitoon competition and Quiz.
- New Vallabh Vidhyanagar has great diversity of birds, as a part of Nature conservation, SWAN club placed the water pots on trees in and around the New V.V. Nagar campus in mid-summer i.e. May 2017. Every morning it was filled with fresh water by the team members.
- On World Environment day, 5<sup>th</sup> June 2017, SWAN club organized Plantation in and around the ARIBAS campus.
- SWAN club organised TWO days Nature camp at POLO, Vijaynager forest on 1<sup>st</sup> and 2<sup>nd</sup> September 2017, to develop the awareness about the natural resources and biodiversity among the students.
- SWAN club organised FOREST TRAIL at PAVAGADH FOREST under the PACHMAHOTSAV programme of Gujarat Government on 30/12/2017.

- Red Ribbon club of ARIBAS had organized a Blood Donation Camp on 14<sup>th</sup> July 2017. Forty (40) units of blood were collected. Blood sample of 47 students were collected for Thalassemia screening by Indian Red Cross Society on 8<sup>th</sup> September, 2017.
- ARIBAS organized 04 district and state level tournaments in the college. All the events were managed by Dr. Rajnibhai Patel, Lecturer in Physical Education.
  - Sardar Patel University, V.V.Nagar Handball (Boys/Girls)
  - Anand District Khel Mahakumbh Table Tennis (Boys, Girls)
  - Anand District Khel Mahakumbh Basket Ball (Boys, Girls)
  - Gujarat state Basket Ball Championship (Girls) all age group.
- Department of M. Sc. Integrated Biotechnology organized one day tour on 12<sup>th</sup> July 2017 to GSBTM for IGBT Semester XI students (55 students).
- Bhavai Club organized Talent evening on 18<sup>th</sup> February, 2018.
- As part of Navratri celebrations “Chalo Garbe Ghumie” was organized on 18<sup>th</sup> September 2017 by Bhavai Club. Mr. Vraj Patel and Ms. Priyanka judged best Garba boy and girl respectively. Bhavai Club organized **Kite Flying** on 6<sup>th</sup> January 2018.
- Veer Narmad Study Circle of ARIBAS has organized guest lecture (Heartfulness Institute) on 21<sup>st</sup> July, 2017. The topic was Transformation through Meditation. One hundred (100) students trained for the meditation.
- Women Cell and NSS club jointly organized “Menstrual Cycle: Health and Hygiene” awareness program for school Girls students of Gana Village on 12<sup>th</sup> & 14<sup>th</sup> February 2018.
- **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, for proper utilization of pond water as part of Community Service.

## 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.HPLC with Accessories (Shimadzu) 2.Microwave synthesizer with Accessories (Anton Par) 3. Micro centrifuge (Vijay scientific)	Indo Hungary Indo Hungary GSBTM	01 01 01
Value of the equipment purchased during the year (Rs. in Lakhs)	---	Rs. 16,32,766/- (1) Rs.11,18,160/- (2)  Rs. 25895/- (3)	Indo Hungary Indo Hungary GSBTM	Rs.27,25,031 /-
Others- Printer	15	-	-	15

#### 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.

#### 4.3 Library services:

	Existing		Newly added		Total		
	No.	Value	No.	Value	No.	Value	
Text Books	5464	30,01,100 1/	116	75203	5580	Rs.30,76204/-	
Reference Books	688	--	--	--	688	--	
e-Books	7524	5275/- (renewal charges)	--	--	7524	Rs.5,275/-	
Journals and Magazine	10	8310(rene w charges )	00	8310-	10	Rs.8310	
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	1347	--	128	--	1475	--	
*Research Articles	281	--	--	--	281	--	
*Video Lectures	1800	--	--	--	1800	--	
*Presentations	68	--	00	--	68	--	
*Uni.Question Papers	157	--	144	--	301	--	
	<b>Total</b>						<b>30,89,789/-</b>

#### 4.4 Technology up gradation (overall)

	Total Computers	Comput er Labs	Internet	Browsi ng Centres	Computer Centres	Office	Depart -ments	Others Printers
Existing	117 + 06 Lap-tops	01	01	01	03	04	06	14
Added	00	--	--	--	--	--	--	01
<b>Total</b>	<b>123</b>	<b>01</b>	<b>01</b>	<b>01</b>	<b>03</b>	<b>04</b>	<b>06</b>	<b>15</b>

#### 4.5 Computer, Internet access, training to teachers and students and any other programme

1. **A Special Computer Training Programme** was conducted by Ms. Kavita Patel and team to train **class 4 employee of ARIBAS** during May, 2017.

2. **All the 5 discipline (Micro, BT, GT, PCH, FSC) postgraduate students** were given hands on training at ARIBAS on various Laboratory Instruments.

3. **Department of Pharmaceutical Chemistry** organized hands on training Program for undergraduate students on “Fundamental Laboratory Practices in Pharmaceutical Industry” on 8<sup>th</sup> & 9<sup>th</sup> February 2018. Total 173 students from Sciences colleges of Anand district attended the training program.

4. **An industrial visit was organized by Microbiology Department, ARIBAS** on 17<sup>th</sup> Feb 2018. Two industries (ZYTEX Biotech Pvt. Ltd. and SAVLI BIO-INCUBATOR) at Savli, GIDC, Manjusar area of Baroda visited by 46 previous and final semester students of M.Sc. Microbiology, Biotechnology, Genetics, Pharmaceutical Chemistry and Forensic Science along with 5 faculty members.

5. **Two days Hands on Training programme on Bioinstrumentations** was organized by Scintifig club of ARIBAS from 6 – 7<sup>th</sup> of September 2017. Total 40 undergraduate students of N.V. Patel Science College and V.P & R.P.T.P Science college, V.V. Nagar have participated.

The students have received information, exposure and demonstration of various instruments like Lab. Scale Fermenter, U.V-Visible spectrophotometer, Gas Chromatography and HPLC.

#### 4.6 Amount spent on maintenance in lakhs:

i) ICT	380894
ii) Campus Infrastructure and facilities	38773/-
iii) Equipments	17,561/-
iv) Others	28359
<b>Total:</b>	<b>465587/-</b>

## Criterion – V

### 5. Student Support and Progression

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

- Institute change the 5½ years Integrated course into 5 years programme as per agenda dated 4-7-2015 of university.
- The Head of Institute instruct all the departmental Heads to organised Laboratory training programme for newly admitted students.
- Helps students to get financial assistance by making them aware about different government scholarships available and by doing the necessary official procedure.
- Aware the students about the single girl child scholarship and INSPIRE fellowship for higher studies.
- To prepare the students for different competitive exams by organising Crash courses.
- 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.
- Bus transport facility is again initiated by the management for the students.

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

- Restructuring of the seminar presentation and dissertation has been done.
- Management started free transportation for students from Vidyanagar and anand.
- 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
- 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 students

UG	PG	Ph. D.	Others
-	378	16	-

(b) No. of students outside the state

(c) No. of international students:

Men	No	%	Women	No	%
	125	31.72		269	68.27

Last Year-2016-17						This Year 2017-18					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
343	18	15	60	00	436	309	17	13	55	00	394

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 two week before NET examination.
- ARIBAS e- library also contain separate module for CSIR-NET, GATE preparation, which will benefit students enormously.

No. of students beneficiaries

5.5 No. of students qualified in these examinations

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

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 Carrer Counselling Cell (C-cube) and Alimni Association of ARIBAS (A-cube) and students are asked for online registration.

No. of students benefitted

### 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
01	41	28	22

### 5.8 Details of gender sensitization programmes

- Women cell of Sardar Patel University has organized various competition under heading of women empowerment on 5/09/2017. Six girl students had participated in Essay writing/ slogan writing/ logo competition.
- Five female faculty member attended One day seminar entitled "Women's Health Awareness" on 8<sup>th</sup> July 2017, organized by ADIT college New V.V.Nagar.
- Women cell and NSS jointly organized " Menstrual Cycle: Health and Hygiene" awareness program for school girls of Gana village on 12<sup>th</sup> and 14<sup>th</sup> February 2018.

### 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
Financial support from institution	04(CVM Scholarship Rs. 5000 per student)	20,000/-
Financial support from government	24	12,91,000/-
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  National level  International level

5.12 No. of social initiatives undertaken by the students

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 Institute for each of the following:

6.3.1 Curriculum development

- M.Sc. in Forensic Sciences two year course has been started from June, 2017.
- Syllabus for all M.Sc. courses IGBT, Microbiology, Biotechnology, Genetics and Pharmaceutical Chemistry has been revised and implemented from June 2017.

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 is conducted for all the students to improve students 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.
- 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 110 students were participated and trained for CSIR – NET examination from all over the Gujarat state.
- **Department of Pharmaceutical Chemistry** organized hands on training Program for undergraduate students on “Fundamental Laboratory Practices in Pharmaceutical Industry” on 8<sup>th</sup> & 9<sup>th</sup> February 2018. Total 173 students from Sciences colleges of Anand district attended the training program.
- **Two days Hands on Training programme on Bioinstrumentations** was organized by Scintifiq club of ARIBAS from 6 – 7<sup>th</sup> of September 2017. Total 40 undergraduate students of N.V. Patel Science College and V.P & R.P.T.P Science College, V.V. Nagar have participated. The students have received information, exposure and demonstration of various instruments like Lab. Scale Fermenter, U.V-Visible spectrophotometer, Gas Chromatography and HPLC.

### 6.3.3 Examination and Evaluation

As per university guidelines examination and evaluation patterned are followed and updated

### 6.3.4 Research and Development

- Three projects of GSBTM with a total of **Rs. 22,78.848/-** are recently completed.
- Three research projects worth **Rs. 2,32,40,000/-** have been submitted in 2017 by faculty members to different funding agencies.
- Currently 09 faculties are recognized Ph.D. guide from Sardar Patel University, Vallabh Vidyanagar. in various subjects
- Fifty four (54) papers have been published in national and international journals by 17 faculties; 04 chapters in books have been contributed by 04 faculty members, 16 sequences deposited to Genebank by 3 faculties and 28 national and international seminar / conferences have been attended by 31 ARIBAS faculties.
- In Year 2017 -18 Three research scholar have submitted thesis, and 03 Research scholar completed their research and awarded Ph. D Degree.

### 6.3.5 Library and physical infrastructure//instruments

- All the books have been barcoded and their issue/ return process was established last year.
- This year Library is enriched by 116 new reference/ text/competitive exam books, for competitive examination. NET/ GATE, presently library has total 5575 books.
- New periodicals (13) and Magazines (05) were also purchased.
- E -Library is enriched by new addition of books and dissertation thesis. At present Institution library is enriched by total 1613 Digital books,1416 dissertation thesis In current year ... new thesis were added to D space.
- Instrument facilities is enriched by addition of Three new instruments(Microwave synthesizer, HPLC and Micro centrifuge) from different research funding agencies .like Indo-hungarian and GSBTM,

### 6.3.6 Human Resource Management

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### 6.3.7 Faculty and Staff recruitment

No faculty and staff recruitment have been done last year.

### 6.3.8 Industry Interaction / Collaboration

- One Research proposals was resubmitted to Industry (Reliance Hazira Surat) for funding.
- Students of Master program and faculty have attended one day Program “Industry Meet” organised by Globarena on 16<sup>th</sup> March 2018.

### 6.3.9 Admission of Students

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

- Hands on Training for DNA isolation to standard 12<sup>th</sup> B group students of Vallabh Vidyanagar
- **BT-Capacity Building cell (PG-BT-CBC):** ARIBAS is selected by GSBTM, Gujarat as 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. 110 students from different colleges attended the workshop.
- **Personal counseling in schools & in Colleges:** Counseling session for **2294** students from Gujarat and other state were conducted .Students were guided regarding career opportunities in respective field of biotechnology.
- **Training at ARIBAS :** Hands on training Program on “Fundamental Laboratory Practices in Pharmaceutical Industry” were organized for undergraduate students of Chemistry from Anand District
- Career Counseling sessions were conducted for undergraduate Students of chemical science and biological science at various Science colleges of Anand District.
- One day state level camp for school students will be organized by Vijnana Bharti at ARIBAS on 15<sup>th</sup> April 2018.

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

Yes  No

6.7 Whether Academic and Administrative Audit (AAA) have 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?

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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. Three faculty members are the member of Board of Studies of Bioscience and Two of Chemistry board.
--

6.11 Activities and support from the Alumni Association

Two alumni (Students) have generously taken Initiative to support students by guiding students of Last year through delivering a talk on “Research Opportunities in Biological Sciences “ and “Career in patenting”.
--

#### 6.12 Activities and support from the Parent – Teacher Association

Parent-teacher meet has been arranged on 10<sup>th</sup> march 2018<sup>th</sup> to strengthen parent teacher relationship and to get feedback/ suggestion from the parents regarding curriculum, administration part.

#### 6.13 Development programmes for support staff

Institute has arranged Special Computer Training Programme to train class 4 employee of ARIBAS during May, 2017.

#### 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 Tree plantation in New Vallabh Vidyanagar Campus and at nearby Gana village in which more than 100 plants have been planted in the surrounding area of campus and Various school campus of Gana village.
- ARIBAS has also taken initiative to educate village people located in nearby campus during NSS camp by organizing Swachata 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-Globarena conducted on 1<sup>st</sup> and 2<sup>nd</sup> March 2017.

Second Round of Personality Develop Classes (PDP) was conducted on 4<sup>th</sup> and 5<sup>th</sup> January, 2018.

Various topics, acquiring competence in language, self-awareness and competency mapping as well as emotional intelligence and stress management covered during the PDP classes.

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 schools in and around Anand as well Schools in Rajasthan (Banswara, Sagwara and Dungarpur) and counselled 1747 students.

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.

Faculties of Microbiology, Biotechnology and Pharmaceutical chemistry visited local, Nadiad, Petlad, Bhadran, Khambhat graduate colleges for carrier counselling. The students of these colleges also invited for hands on Training session related to practical's at ARIBAS.

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 challenge faces 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.

- Team of faculty members visited different places of Gujarat and Rajasthan state, interact with students and provided them proper guidance for different opportunities in science field. Over at institutional level, 1747 school students and 587 colleges students has been covered. Graduate and school students also visited ARIBAS during various programs conducted by the institute. They are as under:
  1. **7 days CSIR-NET Crash Course** sponsored by **BT-Capacity Building cell (PG-BT-CBC) by GSBTM, Gandhinagar** for college students to provide them guidance for the competitive exams.
  2. Hands on training Program for local undergraduate students on “Fundamental Laboratory Practices in Pharmaceutical Industry”.
  3. In order to inculcate scientific temperament and spirit in the students, **SCIENTIFIQ-2018** event on 10<sup>th</sup> January 2018. Total 139 students of various schools and colleges have enrolled. They have enthusiastically participated in various events like Poster presentation, Elocution, Scitoon competition and Quiz.

### **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**

- New Vallabh Vidhyanagar having great diversity of birds, as a part of Nature conservation, SWAN club placed the water pots on trees in and around the New V.V.

Nagar campus in mid-summer i.e. May 2017. Every day morning it is filled with fresh water by the team members.

- On World Environment day, 5<sup>th</sup> June 2017 SWAN club organized Plantation in and around the ARIBAS campus.
- SWAN club organised TWO days Nature camp at POLO, Vijayanagar forest on 1<sup>st</sup> and 2<sup>nd</sup> September 2017, to develop the awareness about the natural resources and biodiversity among the students.
- SWAN club organised FOREST TRAIL at PAVAGADH FOREST under the PACHMAHOTSAV programme of Gujarat Government on 30/12/2017.
- The NSS club has also organized **NSS Camp** and during it following activities was conducted.
  - Tree plantation at primary school campus
  - Swatchta Abhiyan
  - Awareness on Tobacco and Health Hygiene
  - Awareness session with Gana primary school girls on Menstrual hygiene
  - Free eye checkup and Cataract screening camp (14 people had free cataract operation).
  - Free health checkup camp and Hypertension screening camp
  - ARIBAS NSS “VYASAN MUKTI” Exhibition
- **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 Lunawala 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 celebrated World Environment day (5<sup>th</sup> June, 2017) by planting more than 50 plants within ARIBAS campus which was provided by Forest Department, Anand, Majority of them are live at present.

- 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.
- In order to save electricity, this year Director, ARIBAS requested CVM management for the arrangement of LED lamp and 23 LED (9 W) Ujala lamp fitted within the ARIBAS building with 1 LED (30 W) fixer on the terrace area of ARIBAS.

**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. In reference to that institute has proposed revised fee structure this year.
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.

**Name: Dr. Shilpa Gupte**

**Signature of the Coordinator, IQAC**

**Name: Dr. Nilanjan Roy**

**Signature of the chairperson, IQAC**



# ACADEMIC CALENDAR 2017-18

## June

- 06-11 PG-BT-CBC CSR-NET Crash Course
- 12 Semester Opening (except SEM I) & Satyanarayan Katha
- 21 International Yoga Day
- 27 Dissertation allotment to M. Sc. Student

MON	TUE	WED	THU	FRI	SAT	SUN
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

## September

MON	TUE	WED	THU	FRI	SAT	SUN
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

- Remedial classes for late admitted students 1-24
- Activity by SWAN club 1-2
- Thalassemia and Eye check up check up for the first semester students by RRC club 8
- Activity by Scientific Club 22
- Internal exam of late admitted students 26-4
- Poster presentation by dissertation student 26
- Activity by Bhavai Cultural Club (Navratri) 26

## July

- 10 Orientation program for first semester
- 12 Blood donation camp by Red Ribbon Club
- 19 Invited Lecture by GYAN Club
- 20 Activity by Veer Narmad Study Circle

MON	TUE	WED	THU	FRI	SAT	SUN
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

## October

MON	TUE	WED	THU	FRI	SAT	SUN
30	31					1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

- Last day to be considered for attendance 7
- Thesis submission by dissertation students 12
- Diwali vacation 15-28
- External examinations 30-2

## August

- 21-28 Internal Theory Examination
- 29-31 Seminar

MON	TUE	WED	THU	FRI	SAT	SUN
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

## November

MON	TUE	WED	THU	FRI	SAT	SUN
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

- External Examination 06-02

List of Holiday		
26-06-2017	Ramzan Id	02-10-2017 Gandhi Jayanti
07-08-2017	Rakshabandhan	19-10-2017 Diwali
15-08-2017	Independence Day / Janmashtami	30-10-2017 New Year
17-08-2017	Purni	21-10-2017 Bhai Ji
25-08-2017	Ganesh Chaturthi	31-10-2017 Sandar Jayanti
02-09-2017	Bakri-Id	04-11-2016 Guru Nanak Jayanti
30-09-2017	Dashera	02-12-2017 Id-e-Milad

- Teaching Day
- Event at ARIBAS
- Internal Practical Exam
- Internal Theory Exam
- In the Week
- External Practical Exam
- Holiday
- External Theory Exam

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**ARIBAS**

**Feedback from Parents**

**(2017-18)**

A Parents-Teachers Meeting was organized by ARIBAS on 10<sup>th</sup> March 2018. Total 24 parents of students from M. Sc. Integrated Biotechnology Semester II to VI, and 02 parents of M. Sc. Integrated Biotechnology Semester VIII came personally to meet teachers; 06 parents interacted on phone. The feedback from the parents was taken on various aspects and is summarized below:

**Syllabus**

- Most of the parents found syllabus to be good.

**Extra-curricular Activity**

- Parents were satisfied with the extracurricular activities organized by various clubs and forums of ARIBAS.
- One of the parent commented that extracurricular activities are average and it should be compulsory for the students should to talk in English in the classes or even in the campus.

**Teaching**

- None of the parent had any complaint regarding class room teaching. They were very much satisfied with teaching.
- In case of low scorer and irregular students, teachers had discussed internal marks and attendance with the concerned parents.
- One of the parent wanted that extra attention should be given to their ward as he has scored low in internal examination.

**Administration**

- By and large parents found administration to be efficient and cooperative.

One of the parent felt that not sufficient space is there in the canteen especially during recess time it becomes very crowded.

**Others**

Parents of 09 M. Sc. IGBT Sem X students were informed on telephone about low attendance of their ward (less than 60%).

## **Remedial action taken**

- Regarding suggestion for making English speaking compulsory in the college or campus, it is not possible at college level. Students are free to express in the language they are comfortable with. However, we understand the needs for good English communication, both oral and written, for this following initiative are taken by the college in this regard.

(i) Students have to give seminar on a recent research paper selected from NCBI. It is power point presentation delivered compulsorily in English in front of whole of the class and set of three teachers. This enhances their ability and builds confidence for public speaking in English language.

(ii) KHB (Know How Bucket), an initiative taken by students of M. Sc Integrated Biotechnology, aims to groom students in English language through peer learning and discussion.

**ARIBAS Alumni feedback – 2017-18**

The Alumni feedback form was filled throughout the year. Total 46 alumni visited ARIBAS between January 2017 to February 2018. The feedback was collected from them on the following points:

1. **Professional help received from faculty members** : Excellent / Good / Fair / Poor
2. **Design of syllabus** : Effective / Ineffective
3. **Theory and the practical courses shaped your perception** : Yes/ No
4. **Aptitude and skills learnt in ARIBAS** : Adequate / Inadequate
5. **Suggestions (if any):** \_\_\_\_\_

The response received is compiled as under:

- 52% alumni felt that the professional help received from faculty members was excellent, 46% alumni felt good and 2% alumni said fair.
- All alumni wrote that the design of the syllabus is effective.
- Theory and the practical courses shaped their perception. However, 2% of alumni have suggested that practical should be more relevant to the subject and syllabus.
- Alumni found aptitude and skills learnt at ARIBAS are adequate.
- 2% suggested that sports and other activities, other than curriculum should be given equal importance which has gone down every year since their admission in the year 2011-12.

### Feedback from Students (2017-18) ARIBAS

The feedback from the students was taken on 23<sup>rd</sup> Jan 2018 after the internal theory exam was over, the logic behind selection of the day was that due to examination all the students were present and participated in feedback activity. The layout of the feedback form was same as last year and contained following headings:

(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

The analysis of compiled feedback is presented below:

- **EXPLICIT CURRICULUM :**

Out of total **19** teachers evaluated, **09** teachers were in the category of good; 07 teachers were graded as average; **02** teacher had mixed grading of good and average; and 01 teacher's performance was poor.

- **IMPLICIT CURRICULUM**

Out of the 19 teachers, **10** teachers were graded as good in terms of practicing model core values, whereas, **08** were graded as average and 01 teacher had poor grading. Students showed trust deficit towards two teachers.

#### Overall Analysis

In general, there is decline in the performance of teachers according to students as compared to last year. Only 52.63% of teachers were graded as good while 47.36% of teachers were either average or below that. None of the teacher qualified for very good or excellent category.

#### Remedial action taken:

The teachers were informed about their grading and are instructed to improve their performance and meet student's expectations. At the same time it is observed that students are not very serious while filling the feedback form.

