

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)
New Vallabh Vidyanagar-388121, Gujarat
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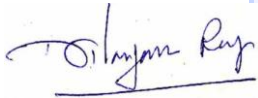
To,
The Director
NAAC
P.O. Box. 1075
Opp. NLSIU, Nagarbhavi,
Baglore-560072
Karnataka

Sub: Submission of First AQAR report
Ref: Track Id.: GJCOGN17123

Dear Sir,
We herewith submit the softcopy of first AQA of academic year 2014-15. The NAAC peer team visited our institute last year 1st, 2nd, and 3rd April 2014.

Thanking You,

Yours Sincerely,



Nilanjan Roy
Head, ARIBAS

ज्ञानेन शीलम्

The Annual Quality Assurance Report (AQAR) of the IQAC
(Academic Year June 2014-July 2015)

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 645801/ +91 2692 229189

Name of the Head of the Institution:

Dr. Nilanjan Roy

Tel. No. with STD Code:

+91 2692 645801/ 229189

Mobile:

09737627950

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 st Cycle	A	3.01	2014	5 yrs
2	2 nd Cycle				
3	3 rd Cycle				
4	4 th 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 _____ (DD/MM/YYYY)
- ii. AQAR _____ (DD/MM/YYYY)
- iii. AQAR _____ (DD/MM/YYYY)
- iv. AQAR _____ (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*)

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

DST-FIST

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

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

1. Efforts for improvement in academic standard
2. Steps to strengthen physical & digital library content
3. Internal IQAC Audit of teaching and non-teaching staff documents
4. First AQAR report preparation of the institute
5. Initiatives towards increase in student's strength of the institute
6. Emphasize on entrance exam preparation activity especially for National Eligibility Test sponsored by GSBTM.
7. Organization of DST sponsored Science Camp under INSPIRE programme

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 non-teaching staff documents	Internal IQAC Audit of teaching staff was one once in year while non-teaching staff documents verification was done Twice in 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 CVM Governing Council; during last academic year following matters were considered.

1. Approval was given to strengthen physical & digital library content.
2. Approval was given towards certain initiatives towards increase in student's strength of the institute.
3. Request for the starting of new course -Forensic Science was considered.
4. Student strength, faculty strength and revised fee structure were also matter of discussion of council meeting.

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	08	NIL	08	NIL
PG	05	01	05	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	13	01	13	04

Interdisciplinary	NIL	Applied for M. Sc. Forensic Science	NIL	NIL
Innovative	NIL		NIL	04 <ul style="list-style-type: none"> • Personality Development Program • Research Methodology Workshop for dissertation students • GSBTM Sponsored “Crash Course for State and National level Examinations” • Proposal submitted to DST, New Delhi for DST-Inspire Summer Camp

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

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	05
Trimester	-
Annual	-

1.3 Feedback from stakeholders*
(On all aspects)

Alumni Parents Employers Students

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

****Please provide an analysis of the feedback in the Annexure***
Analysis attached as Annexure, I,II, and III

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

The syllabi of M. Sc. Integrated Biotechnology Sem IX & X were revised as per requirements of CBCS. The University had constituted a committee for syllabus revision purpose, Convener and four members were from ARIBAS and remaining four were from other college, two external experts were also included. After detailed discussion the committee decided to introduce some new courses in the revised syllabi such as Biodegradation and Bioremediation, Nano biotechnology and applications, Genetics of Mammalian Development, Regenerative Medicine etc to keep abreast with the latest development in the field.

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

The college has submitted a proposal to Sardar Patel University for approval of M. Sc. Forensic Science program (04 Semesters course, CBCS) process of LOI is completed and we are due for on the spot committee visit and review.

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty:

Total	Asst. Professors	Associate Professors	Professors	Others
26	21	04	01	---

2.2 No. of permanent faculty with Ph.D.: 23

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 Seminars/	03	12	01
Presented papers	03	12	01
Resource Persons	00	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:

- Centralized time-table was prepared with well define theory and modular practical schedule.
- To regularize and to monitor student attendance, online attendance monitoring system is developed which includes student profile, attendance, result, counselor details etc.
- Online teaching plan is prepared and syllabus is linked with physical and digital library resources.
- As e-resources centralized laboratory protocols are made available to students can plan their experiments, more stress can be given on improvement of practical skill rather than in journal writing.
- To strengthen the physical library contents 186 books were purchased and 08 periodicals were introduced this year. The current physical library content is Books: 5173, Journals : 16, Magazine : 07, Dissertation Thesis : 1175, CDs : 125.
- Dspace content was enriched with incorporation of teaching plan, protocols of practical, new e-books, and thesis, Finally Digital Depository content is 512 Books 314 Dissertation Thesis 281 Research Articles 68 Presentations, 41 Question Papers.

- A huge video lecture library covering all major biotech content is created. This library also contain separate module for CSIR_NET preparation, which will benefit students enormously.

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

160

2.7 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
- Midterm after two units
- Final after four units

Random paper setting pattern is introduced in internal theory exams for evaluation of syllabus coverage and grasping of students for the subject.

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	12
Member of Board of Study	08
Member of Senate	01

2.10 Average percentage of attendance of students

70

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	494	157	194	82	51	97.97
M.Sc. Microbiology	03	-	03	01	-	100
M.Sc. Biotechnology	06	01	03	-	2	100
M.Sc. Genetics	04	03	01	-	-	100
M.Sc. Pharmaceutical Chemistry	12	08	04	-	-	100

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

Before starting of the new semester, IQAC meetings were conducted with teaching & non-teaching staff members. To improve the academic performance of students and faculty new strategies were discussed and implemented in the semester. According to that multiple innovative practices were introduced for teaching-learning. Moreover, IQAC constantly keeps an eye on adherence to the time schedule for completion of the syllabus, quizzes, seminar, exams etc and take corrective measures time to time.

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	03
UGC – Faculty Improvement Programme	00
HRD programmes	00
Orientation programmes	00
Faculty exchange programme	01
Staff training conducted by the university	04
Staff training conducted by other institutions	02
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	06	06	00	00
Technical Staff	36	36	00	00

Criterion- III

3. Research, Consultancy and extension

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

DRC (Department research committee) is framed to monitor and regulate research associated work. It also conducts the course work for the PhD students. ARIBAS has rich digital and physical library which includes books, journals, dissertation thesis, video. Research methodology work are regularly conducted for the final year students along with pre and post dissertation work presentation. It's been made mandatory for all the students to deliver curricular seminars referring research articles to promote and inculcate the research attitude in them.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	1	5	2	13
Outlay in Rs. Lakhs	16,92,400	89,77,740	30,98,460	40,556,934

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	1	2	3	9
Outlay in Rs. Lakhs	75,000	5,29,000	9,00,000	2,30,000

3.4 Details on research publications

	International	National	Others
Peer Review Journals	22	11	
Non-Peer Review Journals	-	-	
e-Journals	02	09	
Conference proceedings	05	22	

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	3 yr	GSBTM	17,49,400	11,32,300
	3 yr	ICMR	25,00,000	2,51,000
	3 yr	GSBTM	19,92,700	3,85,900
	2 yr	RGYI	9,41,400	-----
	3 yr	GSBTM	17,93,840	6,40,160
	3 yr	DST	14,28,460	-----
	3 yr	UGC	16,70,000	----
Minor Projects	2 yr	UGC	3,75,000	----

	2 yr 3 yr	UGC GUJCOST	2,25,000 4,00,000	---- 1,25,000
Interdisciplinary Projects	Nil			
Industry sponsored	Nil			
Projects sponsored by the University/ College	2014-15		14,30,000	14,30,000
Students research projects (other than compulsory by the University)				
Any other(Specify)				
Total			14,505,800	3,964,360

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

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP CAS DST-FIST

DPE DBT Scheme/funds

3.9 For colleges Autonomy CPE DBT Star Scheme

INSPIRE CE Any Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	-----	1	---	-----	----
Sponsoring agencies	-----	GSBTM	----	-----	-----

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
	2	1	----	-----	----	1

3.18 No. of faculty from the Institution

Who are Ph. D. Guides

16

and students registered under them

27

3.19 No. of Ph.D. awarded by faculty from the Institution 2

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

JRF 07 SRF Project Fellows Any other 03

3.21 No. of students Participated in NSS events:

University level State level 100
National level 100 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 State level
National level International level

3.25 No. of Extension activities organized

University forum	<input type="text" value="--"/>	College forum	<input type="text" value="4"/>
NCC	<input type="text" value="--"/>	NSS	<input type="text" value="4"/>
		Any other	<input type="text" value="--"/>

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

- In the sphere of extension activity one day national seminar on NGS and an on hand training on NGS tool was conducted for the undergraduate , post graduate and research students and also faculty of life science participated in it. A research methodology workshop was conducted for the final year students.
- Under the sphere of institutional social responsibility various programs were organised like
 1. Scientific 2015 : In which total 156 students of four colleges and two school students from the Anand and Kheda district have registered & participated in different events Quiz, Debate, Poster and Scitoon competition.
 2. Under the Mission of Swaccha Bharat different competitions/activities like- Campus Cleaning Painting/ Cartoon Making/ Slogan Writing/Spot Photography Competition/Elocution/Quiz were organized
 3. A survey of Biodiversity of Karamsad-Gana Road (Green Belt) was conducted by the student under the guidance of the faculty members. A 3 days nature camp at RATANMAHAL forest with 40 students and 4 faculty members was also organized
 4. Under Prandhan Mantri Jand han Yojana and, Students along with faculty visited 175 families of Gana village Indir nivas, Vankar Vas, and HarijanVas, helped 336 persons for opening their bank account.
 5. Under Sulabh Sauchlaya Scheme, volunteer students have collected the data and a report was submitted to Gana Grampunchayat.
 6. Thalassemia check-up Camp and blood donation camp was organized in Association with Indian Red Cross Society
 7. A Health awareness program for girls students was organized around 60 students have filled Questionnaire which were analyzed by the gynecologist and 30 students were underwent medical checkup and counseling.

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	07	07	CVM	14
Laboratories	22	09	CVM	31
Seminar Halls	04	02 + 01	CVM	06 + 01 (auditorium)
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	---	01 Thermo cyclor PCR	GSBT M	01
Value of the equipment purchased during the year (Rs. in Lakhs)	---	1,50,000/-	GSBT M	1,50,000/-
Others	--	--	--	--

4.2 Computerization of administration and library

The administration and library activities are already computerized, for library function SOUL software and bar-coding system are utilized.

- Centralized way online practical protocols are available for all semester PG courses.
- NET-SLET and other competitive examination reference materials are made available on line.
- Dspace content was enriched with incorporation of teaching plan, protocols of practicals, new e-books,
- and thesis, Finally Digital Depository content is 512 Books 314 Dissertation Thesis 281 Research
- Articles 68 Presentations, 41 Question Papers.
- A huge video lecture library covering all major biotech content is created. This library also contain
- Separate module for CSIR_NET preparation, which will benefit students enormously.

4.3 Library services:

	Existing		Newly added		Total		
	No.	Value	No.	Value	No.	Value	
Text Books	4614	26,16,910/-	99 + 460 (from NVPAS)	2,35,322/ -	5173	28,52,232/-	
Reference Books	643	--	25	--	668	----	
e-Books	--	---	512	---	512	5000/-	
Journals	15	--	08	--	23	34,189/-	
e-Journals	--		--	--	--	--	
Digital Database	--	--	Lab. Practical protocols digitalized		--	--	
CD & Video	--	--	128	--	128	--	
Others (specify) *Dissertation Thesis	--	--	314	--	1175	--	
*Research Articles	--	--	281	--	281	--	
*Video Lectures	--	--	1800	--	1800	--	
*Presentations	--	--	68	--	68	--	
*Uni.Question Papers	--	--	41	--	41	--	
	Total						28,91,421/-

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	113	01	01	01	03	01	01	--
Added	06 Lap- tops	--	--	--	--	--	--	--
Total	119	01	01	01	03	01	01	--

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

- Work-shop on Bioinformatics and Chemo-informatics conducted for students & faculty.
- GSBTM Sponsored one day seminar on “Application of next generation sequencing” and given training to 85 students (75 from ARIBAS and 10 from other colleges).
- Work-shop on Dspace-Step towards Digitalization of Library is going to be organized by
- IQAC cell of ARIBAS on 24, 25th 2015 for Librarians.

4.6 Amount spent on maintenance in lakhs :

i) ICT	5,
ii) Campus Infrastructure and facilities	79,313/-
iii) Equipments	1,50,000/-
iv) Others	37,705/-

Total : Rs. 7,91,868/-

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- To regularize and to monitor student attendance, online attendance monitoring system is developed which includes student profile, attendance, result, counsellor details etc.
- As e-resources development centralized laboratory protocols are made available to students more stress can be given on improvement of practical skill rather than in journal writing.
- A huge video lecture library covering all major biotech content is created. This library also contain separate module for CSIR-NET preparation, which will benefit the students for competitive exam preparation
- D-space content was enriched with incorporation of teaching plan, new e-books, and thesis.

5.2 Efforts made by the institution for tracking the progression

- In a bid to improve academic standard various measures practiced in national institutes like IIT and IISER are adopted. Publication of academic calendar with all curricular co-curricular and extracurricular activities is made regular feature. Standardized exam schedule with
 - a. Quiz after one unit
 - b. Midterm after two units
 - c. Final after four units and Modular Practical Schedule adopted.
- **Online teaching plan** is prepared and Syllabus is linked with physical and digital library resources, so that both teachers and students can monitor which part of the syllabus is being taught from which chapter of textbooks.
To regularize and to monitor student attendance - Online attendance monitoring system is developed. Results of all students are also being added to online monitoring system. Teachers and counselor now can view any student's attendance and academic progress in their desktop or laptop.
- **Digital Depository** contains 512 Books 314 Dissertation Thesis: 281 Research Articles 68 Presentations, 41 Question Papers and are created and being updated regularly.
- **To strengthen Physical library** 186 books were purchased and 08 periodicals were introduced this year. Total Books: 5173, Journals : 16, Magazine : 07, Dissertation Thesis : 1175, CDs : 125

5.3 (a) Total Number of students

(b) No. of students outside the state

12

(c) No. of international students

Nil

Men	No	%	Women	No	%
	175	34		340	66

Last Year-2013-14						This Year 2014-15					
General	SC	ST	OB C	Physically Challenged	Total	General	SC	ST	OB C	Physically Challenged	Total
545	21	10	59	NIL	635	437	18	12	48	NIL	515

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. GSBTM has sanctioned money for the conduction of workshop for preparing PG students for National competitive Exams.
- ARIBAS e- library contain separate module of video-library for CSIR-NET preparation, which will benefit students enormously.
- Separate books are purchased for students for providing support for clearance of different Nationalize and state level competitive exams.

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

- For the development of student personality and career guidance, institute provide platform to the students for interviews with collaboration CDC Centre, CVM, V.V.Nagar.
- Institute has well active Career Counselling Cell (C-cube) and Alumni Association of ARIBAS (A-cube) and students are asked for online registration.
- A-cube has organised a Alumini-Meet on the entitled with "How I Got My Job" and renowned entrepreneur Dr. Deepak Gadhia from Muni Sevashram Trust, Goraj was invited for talk where students can take benefit for the guidance entrepreneurship and past students who are involved in industry or academics have given guidance for industrial job & academic purpose during interactive session.

No. of students benefitted

5.7 Details of campus placement

On campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
1+6 (on line)	39	06	21

5.8 Details of gender sensitization programmes

- **RUSA Project Approval Board, New Delhi**, approved amount of **Rs. 3,87,596.** under Component 9, 'Equity Initiatives', for ARIBAS for 2014-17, under the 12th Plan Period (2012-17).

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			
Financial support from government	54		16,73,320
Financial support from other sources	03		6,93,800
Number of students who received International/ National recognitions	02	(Inspire Fellow)	4,62,400
	01	(RGNF Fellow)	2,31,400

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 21st century, ARIBAS infuse the strengths of the experimental learning with research centred spirit, its principal aim is to earn peer and public appreciation and fulfil 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 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

- Appointing faculty member in the Board of study and his/her involvement in designing syllabus.
- The curriculum development and its revision are done time to time as per university guidelines. The syllabi of M. Sc. Integrated Biotechnology Sem IX & X were revised as per requirements of CBCS. The University had constituted a committee for syllabus revision purpose, Convener and four members were from ARIBAS and remaining four were from other college, two external experts were also included. After detailed discussion the committee decided to introduce some new courses in the revised syllabi to keep abreast with the latest development in the field. It was approved by BOS, Sardar Patel University, V. V. Nagar and implemented from the academic year 2014-15.

- Institute is planning to open new M. Sc. Forensic sciences course and approval for the course is under process.
- To develop the research aptitude among the students, institute conducts research methodology workshop for dissertation students prior to their dissertation work.
- Personality development programme is conducted for students.

6.3.2 Teaching and Learning

To improve the academic standard various measure are adopted like publication of academic calendar with curricular and extracurricular activities before commencement of academic semester.

Institute has developed online attendance monitoring system to regularize and monitoring student's attendance.

Online teaching plan and laboratory protocol are prepared and syllabus is linked with physical and digital library resources and is made available to students and teachers for smooth conduction of class teaching and laboratory work.

6.3.3 Examination and Evaluation

Institute follows standardized exam pattern, internal exam, quizzes, seminar as part of continuous evaluation of CBCS pattern followed by University. After completion of each unit, a quiz is conducted, after completion of two units internal exams are conducted.

To develop research aptitude among the students, from this year institute has implemented seminar system based on research work at all level of M.Sc. and Integrated M.Sc. courses.

Random paper setting pattern is introduced in internal theory exams for evaluation of syllabus coverage and grasping of students for the subject.

Evaluation policy for seminar has been developed.

6.3.4 Research and Development

Four faculty members received research grant from UGC and NCSTC for their research work.

A one day seminar on "Application of Next Generation Sequencing" was jointly organized by ARIBAS and AAU sponsored by GSBTM on 16th Jan 2015.

Ph.D. supervisor: 18 faculties have received recognition as Ph.D. guide from Sardar Patel University, Vallabh Vidyanagar.

Ph.D. student admission : 21 Ph.D. students have been registered for Ph.D. program during academic year 2014-15.

Departmental Research Committee (DRC) of ARIBAS is framed to monitor and regulate research associated work.

DRC conducted pre and post seminar of research work. DRC conducts course work as per SPU syllabus and Ph.D. guide line of university. Time table is prepared and displayed before the commencements of course work and it is made available to research scholar. Examination of course work is conducted by institute and results are sent to university. It monitors six month progress report of the research students to be submitted to S. P. University.

60 research papers published in reputed journals during the academic year 2014-2015.

6.3.5 Library, ICT and physical infrastructure / instrumentation

A huge video lecture library covering all major subjects and content is developed.

To prepare students for common entrance examination institute has developed various modules for NET, JRF examination.

Library facility is been increased by increasing number of book, periodicals, dissertation CDs, magazines and Human resources.

6.3.6 Human Resource Management

Biometric system introduced in 2013-14

6.3.7 Faculty and Staff recruitment

Recruitment as per norms of Sardar Patel University & Salary as per the norms of Sixth Pay Commission.

To provide employment to the students, institute has recruited three students of our institute as supportive staff and encourage them to pursue higher education by applying for research proposals to various funding agencies.

6.3.8 Industry Interaction / Collaboration

Microbial and plant toxicity analysis was carried out at ARIBAS for diesel additives submitted from Nutan Qyurvedic Research Center, Narsanda.

6.3.9 Admission of Students

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

- **Change in eligibility criteria:** Both "A" & "B" Group of 12th std students are eligible to get admission in Sem I of IGBT course which is duly approved by PG Board.
- **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.
- **Personal counseling in schools & in Colleges:** more than 5000 students counseled so far of different region of Gujarat state for adopting basic science research based curriculum like IISER and they are also updated about various Govt. scholarship schemes like KVPY Inspire and Single girl child scholarship

- **For conduction of DST sponsored Inspire summer camp** institute has submitted application in DST which is under process.
- Institute website which provides all information about the institute & its activities, Prospectus is circulated and displayed on web site. Advertisements for admission are given in regional and national news papers
- **Training at ARIBAS:** 100 B. Sc. students of Gujarat state were given hands on training on NSG & Bioinformatics Tools.

6.4 Welfare schemes for

Teaching	--
Non teaching	--
Students	--

6.5 Total corpus fund generated

6.6 Whether annual financial audit has been done Yes No

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

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

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

For UG Programmes Yes No

For PG Programmes Yes No

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

Institute has submitted application for revised guidelines for IGBT programmes as per CBCS guidelines of SPU.

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

One of faculty member of institute is elected as member of SP University Senate for three year.

Eight faculties are nominated as member of Board of studies, Biosciences and of Board of Chemistry this year.

6.11 Activities and support from the Alumni Association

A-cube has organised a Alumini-Meet on the entitled with "How I Got My Job" and renowned entrepreneur Dr. Deepak Gadhia from Muni Sevashram Trust, Goraj was invited for talk where students can take benefit for the guidance entrepreneurship and past students who are involved in industry or academics have given guidance for industrial job & academic purpose during interactive session.

6.12 Activities and support from the Parent – Teacher Association

Parent teacher meet has been arranged on 14th march 2015 to strengthen parent teacher relationship and to get feedback/ suggestion from the parents regarding curriculum, administration part. We have also arranged a food fest to demonstrate parent their kid's creativity and innovativeness

6.13 Development programmes for support staff

Institute supports teaching and non teaching staff for various training program.

Institute permitted four faculties to attended refresher course under teachers training program organised by UGC, Academic Staff College.

Two of supporting staff have attended training program on communication skill development organised by CDC.

One of supportive staff has attended training program arranged by INFLIBNET.

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

Under the Mission of **Swaccha Bharat, NSS, SWAN have organized various activities like-** Campus Cleaning/ tree plantation / Painting/ Cartoon Making/ Slogan Writing/ Spot Photography Competition/ Elocution/ Quiz **on 11th October 2014.**

SWAN club conducted a survey of Biodiversity of Karamsad-Gana Road (Green Belt). CFL light system is under implementation throughout the campus to save the electric power instead of conventional street light system.

CRITERIA 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 institute. Give detail.

- The institute has modified existing counseling scheme that created positive impact on parents and ultimately on the functioning of the institutions. Student's counselors are not a subject teaching teacher so that the students can share their problems easily without any fear.
- Institution made sincere effort to improve academic performance of the students, in that first emphasize was given on student regular attendance in theory & practical classes. For the same online attendance system was developed. The HOD and faculty can monitor student profile, attendance and their academic performance.
- As a part of counseling system, letter in a local and English language are created and sent to the parents of those students who are absent for more than 3 days without any information to counselor. This has reduced unknown absentia of the students.
- The teaching learning process was updated with online availability of teaching plan and practical protocols of all subjects of all PG courses.
- ARIBAS created their own digital library in form of D space. To make library more enriched new books, and journals were introduced in the library. Digital repository was updated to books, articles, thesis etc. Information related to D space were disseminated out of ARIBAS and oral presentations were made at 2 places SECOME, Vallabh Vidyanagar and Ahmedabad Library Association, Ahmedabad.

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:

(a) Improvement in the academic performance of the institute:

- To carry out activity of national importance at institutional level and nurture the young mind to think out of box for the benefits of their own, society and nations at large.
- Institute has submitted application for DST sponsored Inspire summer camp. In this camp top 2 per cent of 10th standard students of Gujarat state will be selected on merit basis and inspired about current status of research based education system and various Government scholarships like KVPY and career prospect after completion of the course.

- It is a matter of pride that ARIBAS is recently recognized by Gujarat State Biotechnology Mission (GSBTM) as a centre for BT -Capacity Building cell (PG-BT-CBC) by. GSBTM has sanctioned money for the conduction of workshop for preparing PG students for National competitive examination-like CSIR NET twice in a year.
- Online Monitoring of the attendance:
- To regularize and to monitor student attendance-Online attendance monitoring system is developed. Results of all students are also being added to online monitoring system. Teachers and counselor now can view any student's attendance and academic progress in their desktop or laptop.

(b) Improvement in the existing Library Depository:

- **Online teaching plan** is prepared and syllabus is linked with physical and digital library resources, so that both teachers and students can monitor which part of the syllabus is being taught from which chapter of textbooks.
- **Digital Depository** contains 512 Books 314 Dissertation Thesis: 281 Research Articles 68 Presentations, 41 Question Papers and are created and being updated regularly.
- **As e-resources** Centralized laboratory protocols are made available to students so then students can focus in putting more time in experiments and less time in journal writing. A huge video lecture library covering all major biotech content is created. This library also contain separate module for CSIR-NET preparation, which will benefit students enormously.
- **To strengthen Physical library** 186 books were purchased and 08 periodicals were introduced this year. Total Books: 5173, Journals: 16, Magazine : 07, Dissertation Thesis : 1175, CDs : 125

7.3. Give two best practices of the institutions.

ARIBAS existing two best practices are

1. Development of e-resources (Digital Library)
2. Students Counseling Process which has contributed for better academic and administrative functioning of the institute.

* Annexure is attached – Annexure: III

7.4. Contribution to environmental awareness / protection.

ARIBAS has started several clubs which are of the students, by the students and for the students. These clubs caters the student diversity and sensitize themselves towards their social, environmental, health and current trends.

Swachha Bharat Mission:

Under the Mission of **Swaccha Bharat, NSS, SWAN and SCIENTIFIC Club have organized different competitions/activities like-** Campus Cleaning, Painting/ Cartoon Making/ Slogan Writing/Spot Photography Competition/Elocution/Quiz.

Mahatma Gandhi Nirvan Din:

The day was observed along with **cleanliness drive**. A pledge was taken by all **Aribasians** on cleanliness. The drawing competition was organized on 30th Jan 2015. 29 students participated actively and the best three drawings were submitted to University for Intercollegiate competition.

ARIBAS SWAN Club:

SWAN club conducted **a survey of Biodiversity of Karamsad-Gana Road (Green Belt)**.

SWAN club organized **3 days Nature camp at RATANMAHAL**.

National Service Scheme (NSS):

100 student volunteers have registered for NSS and performed various activities like:

Tree Plantation was done by the volunteers within campus and at Ode village.

Under **Sulabh Sauchlaya Scheme**, volunteers have collected the data and a report was submitted to Gana Grampunchayat for further action.

7.5. Whether environmental audit was conducted?

Yes

7.6. Any other relevant information the institution wishes to add.

Institute has planned to put solar pannel in to roof from next year. For this ARIBAS already intimated to UGC, New Delhi through Sardar Patel University, Vallabh Vidyanagar. Institute has also decided to develop the rain water harvesting system at Institutional level.

Annexure I a

ACADEMIC CALENDAR

2013-14



June		MON TUE WED THU FRI SAT SUN							September									
20	Orientation of Students (M. Sc. IGBT-SEM-I)															05	Teacher's day celebration	
20	Commencement of Semester (M. Sc. IGBT-All Sem)							1	2	1	2	3	4	5	6	7	1 st w	Workshop on Waste Management coordinated by SNN
20	Commencement of Semester (M. Sc. Micro/BT/GT/PCH-SEM-II)	3	4	5	6	7	8	9	8	9	10	11	12	13	14	2 nd w	Workshop I (Micro)	
20	Shree Satyanarayan Katha	10	11	12	13	14	15	16	15	16	17	18	19	20	21	3 rd w	Workshop II (Micro)	
22	Program by GYAN	17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	One day workshop on research methodology (BT)	
28	Talk on Recent Advances in Pharma Indust. (M. Sc. PCH)	24	25	26	27	28	29	30	29	30						28	Pharma and Chemical Industries tour (M. Sc. PCH)	
																3 rd w	SPU youth festival	
																4 th w	Institute Visit (M.Sc.Micro) Workshop for Lab. Tech.(Coordinated by DKR & KHC)	
July		MON TUE WED THU FRI SAT SUN							October									
01	Orientation of Students (M. Sc. MI/BT/GT/PCH-SEM-I)	1	2	3	4	5	6	7								01	Workshop on Chemo informatics (M. Sc. PCH).	
3 rd w	Program by Women Cell	8	9	10	11	12	13	14	1	2	3	4	5	6	14	Presentation by Ph.D. and dissertation students.		
19	Internal one day seminar (M. sc. PCH)	15	16	17	18	19	20	21	7	8	9	10	11	12	13	19	Faculty Assessment by Students (All Courses). Submission of Stud Attendance up to 12-10 to HOD.	
4 th w	One day workshop by RRC	22	23	24	25	26	27	28	14	15	16	17	18	19	20	30	Submission of compiled Mark sheet by faculty HOD.	
19	SICART/AAU Visit (M. Sc. Micro/ BT)	29	30	31					21	22	23	24	25	26	27	2 nd w	Dissertation Allotment (M. Sc. Micro/BT/GT/PCH).	
27	SICART Visit (M. sc. PCH)								28	29	30	31				5 th w	Dissertation submission (M. Sc. IGBT). Swarnim Khel Maha Kumbh (Oct-Nov)	
August		MON TUE WED THU FRI SAT SUN							November									
2 nd w	Program by SWAN	5	6	7	8	9	10	11								1 st w	Semester Break (Diwali Vacation 01-11-13 to 09-11-13)	
3 rd w	RRC Cohort-2013 and Blood donation Camp	12	13	14	15	16	17	18	4	5	6	7	8	9	10	11	Submission of compiled Mark sheet HOD to exam section.	
3 rd w	Instrument handling training.	19	20	21	22	23	24	25	11	12	13	14	15	16	17	12	Display of compiled mark-sheet by exam section	
10	Orientation program about Research and Research Paper writing[Coordinated by AM and HVP, M. Sc. PCH]	26	27	28	29	30	31		18	19	20	21	22	23	24			
31	Special talk on QSAR (Drug Design & Discovery) by AM, M. Sc. PCH)								25	26	27	28	29	30				
5 th w	Industry Visit for M. Sc. Micro Sem. III students																	
5 th w	Table Tennis Tournament (SPU Boys and Girls)																	

Teaching Day (Green)

Event at ARIBAS (Blue)

In the Week (Xth w)

Holiday (Orange)

Internal Practical Exam (Red)

Internal Theory Exam (Orange)

External Practical Exam (Yellow)

External Theory Exam (Light Yellow)

ASHOK & RITA PATEL INSTITUTE OF INTEGRATED STUDY & RESEARCH IN BIOTECHNOLOGY AND ALLIED SCIENCES

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Annexure I b



ARIBAS

ACADEMIC CALENDAR

2014-15

December

- 17 Notification of Academic Time Table (All courses)
- 18-19 Scientific- Research Methodology Workshop
- 22 Semester Opening
- 22 Invited Lecture
- 23 Invited Lecture

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				

March

- International Women's Day Celebration
- Veer Narmad Study Circle – Lecture "Library ethics and plagiarism"
- Self Defence Workshop

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

January

- 6 Dissertation Allotment, C-cube Meeting
- 9 COHORT - "Oral presentation - HIV and AIDS in India"
- 11-13 Field trip (1-2 days) by SWAN (Nature Camp)
- 16 Seminar on "Application of Next Generation Sequencing"
- 19-05 NAAC (IQAC) – IQAC Audit
- 22 VeerNarmad Study Circle Elocution "Reading Behavior"
- 24 Women's Cell - Talk on Women Right and their role in society
- 27-30 Bhavai Cultural Club- Udaan
- 28 SWAN -Visit to Herbarium of Bioscience department, SPU
- 31 Industrial tour for students of two year M.Sc.

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	

April

- End-Semester Examination

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			

February

- 2nd-7th Days Celebration by Cultural Club
- 3 Industrial Visit for GBT/IBT 8thSem
- 9th-14th Internal theory examination
- 16th-19th Internal practical examination
- 20th-23rd Seminar presentation for all IGBT & PG program
- 24 C-Cube: Orientation for two year M.Sc. program
- 28 Annual day, Alumni Meet and Talent evening

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	

May

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

List of Holiday			
25-12-2014	Christmas	28-03-2015	Ram Navmi
14-01-2015	Makarsankranti	02-04-2015	Mahavir Jayanti
26-01-2015	Republic Day	03-04-2015	Good Friday
17-02-2015	Maha Shiv Ratni	14-04-2015	Ambedkar Jayanti
06-03-2015	Dhuleti	20-04-2015	Parshuram Jayanti
21-03-2015	Cheti Chand		

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

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Annexure II

Feedback from Alumni

Alumni meet was organized on 28/02/2015 and 35 alumni participated in the event. During Alumni meet panel discussion was organized with alumni from different fields viz Academic (Teaching or Research), Industry, Entrepreneur, wherein present students discussed their queries with the alumni. Feedback was also collected from all the alumni on different aspects which are summarized below:

Curricular aspects

- Final year students should be enriched with the wide variety of options available after their studies.
- Practical work should be easier and the procedure of getting the material should be easy.
- Start little more practical based courses. This would help in linking theory to practical. More emphasis on practical aspect of theory is needed.
- Syllabus should be improved and unnecessary subjects should be removed. Merit should be given less importance while selecting the dissertation guide. Dissertation should also be allowed outside the college.

Co-curricular aspects

- Industrial visit should be organized for the students to understand the kind of work related to biotechnology in industry. Also students should be trained on different instruments like HPLC, GC in laboratory so that it will benefit them in getting job.

Extra-curricular aspects

- Encourage soft-spoken skills development programme, Introduce mock-interview for final semester students

Administrative aspects

- The administration is more effective and systematic, which was not so before.

Any other

- Theoretical knowledge along with related scientific updates going in market should be imparted.

Feedback from Parents

A Parents-Teachers Meeting was organized by ARIBAS on 14/03/2015. Total 20 parents came to meet the teachers out of which 13 parents were of students from Sem II to VI. The feedback from the parents was taken on various aspects and is summarized below:

Syllabus

- Most of the parents appreciated syllabus stating that it is up to the mark.

Extra-curricular Activity

- Parents were satisfied with the extracurricular activities organized by the various clubs and forums of ARIBAS. However, one of the parents suggested that IAS coaching should be provided to the students.

Teaching

- In general parents were satisfied with the teaching quality of ARIBAS.
- One parent specifically mentioned that Biomathematics teaching was not satisfactory and also teacher of Physics-II was not explaining the concepts properly in the class.
- Another parent mentioned that teaching plan of M. Sc. IG-IBT 8 is yet to be uploaded.

Administration

- By and large parents found administration to be satisfactory and cooperative.
- One parent suggested that student's attendance report should be sent to parents through SMS regularly.
- Graduation certificate should be given after Semester VI in M. Sc. Integrated Biotechnology program was another suggestion.

Feedback from employer

The students from ARIBAS are regularly placed in some of the top Industry of India such as Zydus-Cadila, Intas Pharmaceuticals, Sun Pharma etc. In general, the employers are satisfied with the performance and commitment of our students which is clearly evident by the repeat recruitments to the same company.

However, for the first time we have received an email from HR department of Zydus Hospira Oncology Pvt. Ltd., Ahmadabad that one of our students has left the company few days after joining it and he has some other plans for future, which HR did not appreciate.

Our placement cell conducted a meeting of students and conveyed the same to prevent any such incident in future.

Feedback from Students

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

1. **EXPLICIT CURRICULUM:** (10 subheadings) How well does the teacher teach the core subject?
2. **IMPLICIT CURRICULUM:** (05 subheadings) How well does the teacher model the core values?
3. **SUBJECT/COURSE EVALUATION** (03 subheadings).

The evaluation was done on a five point scale which was spelled out as **1 = Poor 2 = Average 3 = Good 4 = Very Good 5 = Excellent**. The feedback response was collected by all semester and all PG programme students of ARIBAS and an analysis of their compiled feedback is presented below:

The teachers were evaluated for both Explicit and Implicit Curriculum and in general, all the teachers were graded between good and very good category. The student's feedback on Subject/Course was sought in terms of

- (i) Depth of the course content and Extent of coverage
- (ii) Clarity and relevance of the reading material provided
- (iii) Relevance of the course content in life and applicability in profession.

The semester-wise analysis is given bellow:

- Students are not very satisfied with the content of two papers of Semester I ie: Plant Sciences and Biomathematics and two papers of Sem II ie: Computer Applications and Microbiology – I; further except for Cell Biology, students also demanded more reading material for remaining 05 papers.
- The students are not very content with all the 06 papers of Sem III regarding all the three aspects included in feedback. However, by and large Sem IV students are satisfied with all the 06 papers in every aspect.
- Semester V students feel they have failed to understand the relevance of the subject in professional life. The students of Sem VI found all the 06 papers to be satisfactory in all the aspects.

Semester VII onward the analysis is done semester-wise in each of the four branches.

- The students of Environment Biotechnology have graded the syllabus of all the four semesters (VII to X) between good to very good category and they are fully satisfied with the design of their curriculum and its execution.

- Likewise, the students of Industrial biotechnology are also overall satisfied with the design and execution of their curriculum except for one course in Sem IX ie: Biofertilizer and Biopesticides.
- The Medical Biotechnology students are very much satisfied with the curriculum and execution of all the courses of semesters VIII, IX and X, except for semester VII. Where in students have reservations about Regulation of Metabolic Pathway paper, availability of its reading material and practical relevance of the remaining three papers ie. Molecular Diagnostic Techniques, Clinical Biochemistry and Advanced Molecular Biology.
- The students of General Biotechnology Sem VII are not at all satisfied with the curriculum in any of the aspect mentioned in the feedback form. However, students found curriculum and its execution in rest of the Semesters ie Sem VIII, IX and X to be good or very good.

***Rectification Measure taken:**

1. Meeting with students, HODs and Head of the Institute.
2. Post student's meeting, discussion in the faculty meeting.
3. To address the reading material issue more books are added in both physical and digital library and a book bank is created utilizing RUSA Fund.

Annexure- III

BEST PRACTICE - I

1. Title of The Practice: “E-RESOURCES/DIGITAL LIBRARY”

2. Objectives of the Practice

The objectives of the practice are as follows:

1. To cope with the modern requirements of science communication technology.
2. To update the latest development and research in the field of science.
3. Extending the library facility beyond the bound books.
4. On-line library resources availability to the end users.
5. Preserve e-resources which are downloaded using ARIBAS bandwidth.

3. The Context

The twentieth century was shaped by sweeping changes in communication technologies. The emergence and use of information technology is the century's most significant development affecting scholarly communication. Consequently, the academic community has undergone tremendous changes during these years, assuming new dimensions influenced by technology-driven applications. Libraries have witnessed a great metamorphosis in recent years both in their collection development and in their service structures. Thus, libraries are now transforming technologically to, improve the management, services and speedy dissemination of scholarly information. Electronic resources are invaluable research tools that complement the print-based resources in a traditional library setting.

ARIBAS has a well-equipped library with the latest reference books, newsletters, bulletins, literature, national and international journals. The Library have approximately over 5043 Books - both Indian and foreign, scientific journals, magazines and periodicals.

ARIBAS is registered under N-LIST program, an initiative of Ministry of Human Resource Development (MHRD) under the national mission on education through ICT and have access for the e-resources 3000+ e-journals and 75000+ e-books through campus wide LAN and Wi-Fi.

ARIBAS strongly feels to have digital library facility in institute not only for better information management and for modernizations of library services. This development of institutional repository will be help ful for research and teaching purpose to students and faculties. Additionally it provides quick accessibility of records, cost effectiveness, library image enhancement and increase the life span of the documents.

4. The Practice

Today, libraries are undergoing transformation, on one side they are facing three major challenges such as shrinking budgets, shortage of space and increasing cost of publications and on the other side are the challenges posted by advances in the field of information and

communication technology. Electronic resources play a vital role in the field of science and engineering studies. Electronic access to technology journals has become important and valuable tool for researchers, students and faculty. The user community is becoming more and more familiar with these tools and now they have started using them very regularly.

In e-Library / digital library facility, we are offering 3 different services.

- Online Public Access Catalog (OPAC): This is for the search of the books available for the students and faculties in the ARIBAS library by title, author, publisher and its availability.
- Digital Institutional Repository (D-space): The student can search e-books, dissertation thesis, biological related soft-wares, CD's, paper published and deposited by the faculties and many more. The details of ARIBAS repository is given below:

Dspace content was enriched with incorporation of teaching plan, protocols of practicals, new e-books, and thesis, Finally Digital Depository content is 512 Books 314 Dissertation Thesis 281 Research Articles 68 Presentations, 41 Question Papers.

Benefits of D-space:

- Freely accessible to everyone
 - No installation required at client terminal
 - Content safeguard
 - Open source software which implies that, it can be modified to suit the needs and demands of any institute
 - Can be simultaneously accessed by multiple users
 - No cost upgrades
 - Fast searching of e-resources
 - Cleaning computer HD clutter
 - keep track of own publications
- **N-LIST:**
ARIBAS is registered to INFLIBNET (N-LIST) network of UGC as an authorized user. INFLIBNET (N-LIST) is a consortium subscribes to the various resources for the Institutes. An Initiative of Ministry of Human Resource Development (MHRD) under the National Mission on Education through ICT, all the electronic resources subscribed under N-LIST programme are available from the publisher's web site.

In this, users can down load full text e-journal from Cambridge university press, Oxford university press. E-books from cambridge books online, springer e-books, taylor francis e-books, mcgraw hill, bibliographic data base, e-resources for universities, e-resources from technical institutes, etc,. User can access for the e-resources 3000+ e-journals and 75000+ e-books through campus wide LAN and Wi-Fi.

5. Evidence of Success of the Practice

Particularly, the responses of the students to the practice are encouraging. However, looking in to the content it will be highly useful to the students for their course curriculum and research work

and to update the subject knowledge. Presentation and paper submission on “D-space- Recycling the Digital Trash” was done by the institute as a part of innovative practice in national seminar organized by the IQAC cell of SEMCOM, V.V. Nagar and oral presentation was also done at Ahmedabad Library Association, Ahmedabad.

6. Problem Encountered and Resources Required

The practice was initiated from last academic year. Awaiting for further response and suggestions from the students and faculty to make the practice more and more successful and efficient.

BEST PRACTICE –II

1. Title of the Practice: “STUDENTS COUNSELLING”

2. Objectives of the Practice

The objectives of the practice are:

- To provide an opportunity to students (stakeholders) to express their feelings, grievances, likes and dislikes, etc. and to suggest remedial measures.
- To eliminates the weaknesses and reinforce the strengths.
- To explore jointly the strengths and weaknesses of the overall functioning of the Institute in terms of students, infrastructure facilities, teaching and non-teaching staffs and management.

3. The Context

In most of the institutions, there has been little or no scope for free and open expression of the students feelings, grievances, likes and dislikes in particular and that of the hostel, academics and administrative problem faced by the students. Students learn from to their teachers within the four walls of the classroom for a stipulated/limited period, while teachers teach actively to the students, no matter how much the students understand or digest the subject-matter. The head and his administrative staff manage the institution, no matter how efficiently they are managing. Parents also send their children to the institution with a certain objective but with little or no knowledge or information about the overall functioning of the institution. The management also invests resources in the institution with a certain objective, no matter how efficiently, precisely and economically the resources are utilized.

Education being a joint venture needs co-operation from all sections of the society. Most particularly, strenuous efforts with mutual understanding among the students are highly desirable in attainment of the desired goals and objectives of the mission. But unfortunately, there has been no proper platform for exchange of views among the students.

Our counseling system is an important practice where students can exchange their views freely and openly with their counselor which in turn helps the institution to understand about the

functioning of the institute and in taking up the necessary measures for appropriate/overall improvement of the institute.

4. The Practice

Admission counseling Process: Important feature of the institute is admission counseling process. The admission counseling process begins prior to class 12th science results. ARIBAS faculty were inspired the young mind to think out of box to solve the common problem of the nations through science. In a mission to spread awareness about biotechnology career prospects out of ARIBAS, our faculty members visited 150 schools and collages of Gujarat and Rajasthan. Stress was given to Personal counseling and more than 5000 students were counseled till date and we will do more in future.

Approx. 100 BSc students of Gujarat state were given hands on training on Next generation sequencing and various Bioinformatics Tools.

ARIBAS faculty also conseling the students for various governmental schemes related to higher studies.

- The admission counseling cell comprises of the faculty representatives of each course.
- Teachers provide all the necessary information about the courses inquired and their future prospects.
- They also provide other information regarding the admission procedure, fee structure, mode of payment, academic record of the institute at University level etc.
- During the admission counseling there is a provision for the spot admission so that students and parents can secure the admission immediately.

Counseling Process:

- The institute has modified existing counseling scheme that created positive impact on parents and ultimately on the functioning of the institutions. Student's counselors are not a subject teaching teacher so that the students can share their problems easily without any fear. In the beginning of the session counselors are appointed for all the semesters. The objectives of the practice are explained to the students in very first meeting.
- Counselor maintains all the basic information, attendance record, internal test result and leave record of the students. As online system is developed by the institute overall attendance and progress of the students can be continuously monitored and regulated by the counselors
- Counselor also discusses the overall attendance and student performance in the quiz, internal theory and practical examination. Matters relevant to the classroom learning difficulties or its outside problems including hostel and mess issues are also shared with the counselor.
- Counselor communicates with the parents as and when need arises and performance and regularity can be accessed any time by the parents.
- Counselor delivers and receives suggestions from the students/parents to enhance quality of teaching, learning and administration.
- Any point raised by any student is properly recorded by the counselor and required clarifications may be given by the counselor instantly or later on as per the seriousness of the matter.

Open house for the parents:

- The institute keeps parents- teacher meeting which gives a platform to the parents for interaction with teacher concerned, counselor, HOI regarding their wards performance in detail.
- Important suggestions regarding quality improvements of the institute functions are invited from the parents.

The information will be shared with the appropriate subject sharing teachers and he/she can also express their views on the improvement of the institute, their grievances, their expectations from the students, colleagues, head of the institute and management. This way, this practice helps to explore quality education by understanding the strengths and weaknesses of the student and the institute.

5. Evidence of Success of the Practice

The responses of the students to the practice are really encouraging.

- The students assemble in the room in time at the venue and discuss their view or problem without any hesitation. Counselor also discusses the progress made by the individual students and drawback in terms of attendance, progress, thus the practice reinforces the classroom teaching-learning process.
- This practice also motivates the students to believe in over all development and therefore they are encouraged to participate in co and extra- curricular activities including competitive examinations.
- From such a practice, now the institute more or less ascertain the strengths and weaknesses of every personnel of education (teachers, students, principal and management) thereby giving the opportunity for self as well as collective correction of error, if any.
- This would help to bring about a mutual understanding and a sense of belongingness among the students.
- Through this practice, ARIBAS can maintain the transparency in the overall functioning of the institute by exploring the merits and drawbacks of the institution.

6. Problem Encountered and Resources Required

Problems encountered were not insuperable. The counselors had to schedule the sessions so that students were free to meet them. Some of the problems were extremely personal which need personal guidance, care and patience. The genuine cases came forward were discussed with the head of the department and head of the institute and corrective measures were taken. Though it took up their time, due attention was given to both, to work towards a positive solution.