

# Annual Report

## (2016-2017)

### **Curricular Aspects**

Ministry of Human Resource and Development, India has initiated ranking all the Indian Universities through the National Institutional Ranking Framework (NIRF) based on Teaching & Learning Resources, Research, Professional competence, social outreach activities etc. ARIBAS has submitted data for evaluation and getting ranked. Looking to our past performance at KCG and NAAC we are hopeful to get good ranking.

### **M. Sc. Integrated Biotechnology**

ARIBAS is offering five and a half year course after 12<sup>th</sup> science (B group). Total 109 applications were received this year out of which 52 students joined the course.

### **Dissertation**

Last year, 73 M. Sc. IGBT students completed dissertation in ARIBAS.

### **Result**

Overall the result was satisfactory, percent of students promoted to next semester is 100%. The number of students with ATKT status declined as students reach higher semesters and become more serious about their studies. This also shows the concerted efforts put in by faculties to improve their knowledge level and to motivate them towards studies.

## Result of M. Sc. IGBT

| Course    | No. of Students |          |      |        |      | % of students promoted |
|-----------|-----------------|----------|------|--------|------|------------------------|
|           | Appeared        | Promoted | ATKT | Absent | NPTA |                        |
| IGBT-I    | 41              | 40       | 2    | 1      | 0    | 99%                    |
| IGBT-II   | 41              | 41       | 7    | 0      | 0    | 100%                   |
| IGBT-III  | 41              | 41       | 8    | 0      | 0    | 100%                   |
| IGBT-IV   | 62              | 61       | 5    | 0      | 1    | 99%                    |
| IGBT-V    | 61              | 61       | 11   | 0      | 0    | 100%                   |
| IGBT-VI   | 80              | 80       | 2    | 0      | 0    | 100%                   |
| IGBT-VII  | 78              | 77       | 5    | 1      | 0    | 99%                    |
| IGBT-VIII | 86              | 85       | 1    | 1      | 0    | 99%                    |
| IGBT-IX   | 83              | 83       | 0    | 0      | 0    | 100%                   |
| IGBT X    | 75              | 74       | 1    | 0      | 0    | 100%                   |
| IGBT XI   | 73              | 73       | 0    | 0      | 0    | 100%                   |

### Final Semester Result (M. Sc. IGBT Sem XI)

- No. of Students passed with distinction      33
  - No. of students passed in First Division      34
  - No. of students passed in Second division    06
- Anuany Animesh Sinha and Shrushti Ketanbhai Rajyaguru are University toppers of M. Sc. IGBT course.

## Other M. Sc. Courses

ARIBAS is also offering two years course in M. Sc. Biotechnology, Microbiology, Genetics and Pharmaceutical Chemistry. A new course, M. Sc. in Forensic Science started from June '2017.

## Dissertation

06 students from M. Sc. Courses completed in-house dissertation.

## Result

In all the four M. Sc. courses result was 100%, though 08 students of M. Sc. Microbiology Sem I and 01 student each from M. Sc. Microbiology Sem II, III& IV and M. Sc. Biotechnology Sem III have ATKT status.

| Course                      | No. of students |          |      | % of students Promoted |
|-----------------------------|-----------------|----------|------|------------------------|
|                             | Appeared        | Promoted | ATKT |                        |
| Genetics Sem I              | 3               | 3        | 0    | 100%                   |
| Genetics Sem II             | 6               | 6        | 0    | 100%                   |
| Genetics Sem III            | 6               | 6        | 0    | 100%                   |
| Genetics Sem IV             | 1               | 1        | 0    | 100%                   |
| Microbiology Sem I          | 17              | 17       | 8    | 100%                   |
| Microbiology Sem II         | 4               | 4        | 1    | 100%                   |
| Microbiology Sem III        | 4               | 4        | 1    | 100%                   |
| Microbiology Sem IV         | 4               | 4        | 1    | 100%                   |
| Biotechnology Sem I         | 1               | 1        | 0    | 100%                   |
| Biotechnology Sem II        | 6               | 6        | 2    | 100%                   |
| Biotechnology Sem III       | 4               | 4        | 1    | 100%                   |
| Biotechnology Sem IV        | 4               | 4        | 0    | 100%                   |
| Pharmaceutical Chem. Sem I  | 1               | 1        | 0    | 100%                   |
| Pharmaceutical Chem. Sem II | 2               | 2        | 0    | 100%                   |
| Pharma. Chem. Sem III       | 2               | 2        | 0    | 100%                   |
| Pharma. Chem. Sem IV        | 1               | 1        | 0    | 100%                   |

## Final Year Result

|                            |                              |    |
|----------------------------|------------------------------|----|
| M. Sc. Biotechnology       | First Class with Distinction | 02 |
| M. Sc. Genetics            | First Class with Distinction | 01 |
| M.Sc. Pharmaceutical Chem. | First Class with Distinction | 01 |

## Remedial classes

- Conducted remedial classes for weak and needy students. (04/08/2016-26/08/2016 and 09/02/2017 – 21/03/2017)

## PDP Classes

- Personality Develop Classes (PDP) through our Career Development Centre (09/01/2017 – 10/01/2017) to improve students Competence in English, Self awareness and Self Management.
- Second Round of Personality Develop Classes (PDP) is scheduled on 1<sup>st</sup> and 2<sup>nd</sup> March 2017

## Institute Support for Student Scholarship and Fellowships

- ARIBAS helps students in getting financial assistance by making them aware about different government scholarships available and doing the necessary official procedure. The total amount received by ARIBAS students as scholarship/fellowship under different categories in 2016-17 is Rs. **32,00,286/-**.

### Government Scholarships/Fellowships received by ARIBAS students

| Type of Scholarship                     | Amount (Rs.)       |
|---|--------------------|
| <b>Post-metric Scholarships</b>         |                    |
| For ST students                         | 9,06,386/-         |
| For SC students                         | 3,50,000/-         |
| For OBC students                        | 1,65,000/-         |
| Minority                                | 25,000/-           |
| Union Territory (Daman & Diu)           | 1,50,000/-         |
| Indira Gandhi Single Girl Child         | 1,68,000/-         |
| <b>Ph. D. Fellowship</b>                |                    |
| INSPIRE fellowship (02 students)        | 7,39,000/-         |
| Rajiv Gandhi National Fellowship (RJNF) | 6,96,000/-         |
| <b>Total</b>                            | <b>32,00,286/-</b> |

## Research Aptitude

Our chairman, Dr. C. L. Patel has always emphasized on active and useful research activity in CVM institutions. To achieve his vision, ARIBAS is working categorically towards instilling research aptitude in students at an early age.

- Since last three years, restructuring of the seminar presentation and dissertation has been done.
- For all the students, starting from IGBT/M. Sc. Sem I, seminar presentation is compulsorily on good quality research paper downloaded from Pubmed Central; the power point presentation 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.**

## Paper presentation in National Seminar / Conference by Students

- Dissertation students are encouraged to participate and present their work in seminar and conferences. Around 10 dissertation students have presented their work in National seminar / conferences.

## C-Cube

All students registered in ARIBAS Career Counseling Cell are placed in different pharmaceutical / Diagnostic / Biotechnology based marketing companies. Many students are preparing for GRE/TOEFEL/IELTS for higher studies abroad. C-Cube is actively guiding all our students for employment and higher studies.

## Success in Competitive Examination

- Following students qualified CSIR-NET examination June-2016

| S.N. | Name of the student | Class                       | AIR      |
|------|---------------------|-----------------------------|----------|
| 1    | Nikita Awasthi      | IG-IBT Sem IX               | 61       |
| 2    | Anunay Sinha        | IG-MBT (passed out in 2016) | 62       |
| 3    | Varun Bavda         | IG-GBT (passed out in 2014) | 68       |
| 4    | Supriya Thakur      | IG-IBT Sem IX               | 69       |
| 5    | Abhshek Vyas        | IG-GBT (passed out in 2014) | LS       |
| 6    | Krishna Bhatt       | IG-GBT (passed out in 2016) | LS       |
| 7.   | Sinduri Chini       | IG-MBT (passed out in 2016) | LS       |
| 8.   | Ankita Gandhi       | PA in UGC-MRP               | ICMR-JRF |

## Premier Research institutes

- Anuany Sinha has joined CDFD, Hyderabad for Ph.D.
- Krupa Chitre has joined CCMB, Hyderabad as Project Assistant.

## Placement Details

| Year | Job<br>Industry/Research<br>Institute | Higher Studies | Preparing for<br>competitive<br>Exam | Entrepreneur |
|------|---------------------------------------|----------------|--------------------------------------|--------------|
| 2015 | 13                                    | 07             | 05                                   | 04           |
| 2016 | 12                                    | 21             | 05                                   | 02           |

## Industries

- Harsh Nilesh Majmundar: Intas Biopharma

- Gaurang Bhaskarbhai Patel: Concord-Fermentation Division
- Karankumar Dilipbhai Patel: Zydus Pharmaceuticals
- Anandkumar B Patel INTAS Pharmaceuticals Ltd, Celestial Division
- Nilesh Patel STERLING BIOTECH, Baroda

### Departmental Research Committee (DRC)

- All eligible faculties are recognized Ph. D. supervisors of S. P. University in Biotechnology, Microbiology, Biochemistry, Genetics, Medical Biotechnology and Chemistry.
- Departmental Research Committee (DRC), coordinated by Dr. J. B. Chauhan with all Head of Departments as members, is in place to organize the course work and arrange for six monthly report presentation and submissions by Ph. D. students.
- Presently, 05 students are registered in Ph.D. program in ARIBAS.

**The current status of Ph.D. students in ARIBAS is as under**

| Subject                     | Number of students |                    |                  |
|-----------------------------|--------------------|--------------------|------------------|
|                             | Pursuing Ph.D.     | Synopsis submitted | Thesis submitted |
| Biotechnology               | -                  | 03                 | -                |
| Microbiology                | 02                 | -                  | -                |
| Medical Biotechnology       | -                  | -                  | 02               |
| Genetics                    | 01                 | 06                 | 01               |
| Biochemistry                | 01                 | 02                 | -                |
| Pharmaceutical<br>Chemistry | 01                 | -                  | 01               |
| <b>Total</b>                | <b>05</b>          | <b>11</b>          | <b>04</b>        |

### Research Students Achievements

- 19 papers have been published by 04 research scholars in national/international journals

- Mr. Yashvant Khimsuriya participated in European Society of Human Genetics conference (ESHG 2016) held at CCIB, Barcelona, Spain during 21-24 May, 2016 and presented his research findings.
- 19 papers were presented by 05 research scholars in National / International Seminar/ Conferences.

### Membership of Academic Bodies of SP University

1. Dr. Nilanjan Roy is a member of PG Board
2. Dr. Nilanjan Roy and Shilpa Gupte are senate member for the period 2015-17.
3. Dr(s). Nilanjan Roy Bhakti Bajpai, Shilpa Gupte, K. Saroja, Kishor Chauhan, are members of Board of Studies in Biosciences
4. Dr(s). Ritu Dixit and Arunabh Mishra are members of Board of Studies in Chemistry.

### Faculty's Achievements

#### Seminar / Conference / Workshop attended

| S.N | Faculty                   | Publication   | Books/chapters | Seminar/conference/workshop | Resource person | Gene bank submission |
|-----|---------------------------|---------------|----------------|-----------------------------|-----------------|----------------------|
| 1   | Dr. Jenabhai B. Chauhan   | 09            |                |                             |                 |                      |
| 2   | Dr. Bhakti Bajpai         | 01            |                | 03                          | 05              |                      |
| 3   | Dr. Ritu Bharat Dixit     | 01            |                |                             | 02              |                      |
| 4   | Dr. K. Saroja             | 01            |                | 01                          | 01              |                      |
| 5   | Dr. Kinnari Nitin Mistry  | 08            |                | 04                          |                 |                      |
| 6   | Dr. Swati Nimesh Narolkar |               |                |                             | 01              |                      |
| 7   | Dr. Kalpesh B. Ishnava    | 01            |                | 01                          |                 |                      |
| 8   | Dr. Mukund C. Thakur      | 04            |                |                             |                 | 01                   |
| 9   | Dr. Digvijaysinh Rana     | 01            | 01             | 02                          | 02              |                      |
| 10  | Mr. Sanjay Lal            | 01            |                |                             | 03              |                      |
| 11  | Dr. Farzin Parabia        |               |                | 03                          | 01              |                      |
| 12  | Dr. PinakinDhandhukia     | 03            | 02             |                             | 02              |                      |
| 13  | Dr. Arif Khan             |               | 01             |                             | 03              |                      |
| 14  | Dr. Shilpa A. Gupte       | 01            |                | 03                          | 03              |                      |
| 15  | Mrs. Nisha S. Daxini      | 02            |                | 02                          | 02              |                      |
| 16  | Dr. Sunil Khristi         | 01            |                |                             | 01              |                      |
| 17  | Dr. Anurabh Mishra        |               |                |                             |                 |                      |
| 18  | Mr. Snehal Ingale         | 01            |                |                             | 04              |                      |
| 19  | Dr. Sandeep Chovatiya     | 01            |                | 01                          |                 |                      |
| 20  | Ms. Dipika B. Patel       |               |                | 01                          |                 |                      |
| 21  | Mrs. Monika Patel         | 03            |                |                             | 01              |                      |
|     | <b>Total</b>              | <b>39(16)</b> | <b>04(3)</b>   | <b>21(10)</b>               | <b>31(14)</b>   | <b>01</b>            |



Around 39 papers have been published in national and international journals by 16 faculties; 04 chapters in books have been contributed by 03 faculty members; around 21 national and international seminar / conferences have been attended by 10 ARIBAS faculties.

## Extramural Funding

### New Projects Sanctioned in 2016-17

Four projects worth Rs. **1,45,82,348/-**.were received by ARIBAS faculties as extramural funding.

| S.N. | Project   | Funding Agency        | Amount (Rs.)         |
|------|---|-----------------------|----------------------|
| 1    | Synthesis, chemoinformatic development, optimization and preclinical testing of matrix metalloproteinase-2 inhibitors for cardioprotection”<br>Coordinator: Dr. Nilanjan Roy<br>PI Dr. Mukundchand Thakur | DST<br>Indo-Hungarian | 86,86,000/-          |
| 2    | Selected Gene Polymorphism in Dairy Cattle: A Step Towards Marker Assisted Breeding<br>Dr. J. B. Chauhan  | GSBTM,<br>Gandhinagar | 1,77,9420/-          |
| 3    | Screening for polymorphism (s) in the selected candidate genes involved in the pathogenesis of steroid resistant Nephrotic syndrome<br>Dr. Kinnari Mistry in collaboration with AAU                       | GSBTM,<br>Gandhinagar | 29,56,920/-          |
| 4    | “Purification of Industrial effluent using new polymeric material “simultaneous removal of heavy metal and Dyes color from Industrial effluent”<br>Dr. Ritu Dixit   | GUJCOST               | 2, 25,000/-          |
| 5    | INSPIRE Internship Camp-2016<br>Coordinator: Dr. Nilanjan Roy   | DST, New Delhi        | 9,75,000/-           |
| 6    | PG-BT CBC-May’2016<br>Coordinator: Dr. Digvijaysinh Rana  | GSBTM,<br>Gandhinagar | 2,42,504/-           |
| 7    | PG-BT CBC-Dcember’2016<br>Coordinator: Dr. Digvijaysinh Rana  | GSBTM,<br>Gandhinagar | 2,42,504/-           |
|      |   | <b>Total</b>          | <b>1,45,82,348/-</b> |

## Ongoing Research Projects

Four projects are going on in ARIBAS with a total of **Rs. 1,21,73.842/-** grant from various national funding agencies like DBT, DST, GSBTM and UGC.

| S.N. | Project   | Funding Agency     | Amount (Rs.)         |
|------|---|--------------------|----------------------|
| 1    | “Cloning, characterization functional screening of industrially important novel cellulose's encoding genes screened from the Bovine rumen microbial community using metagenomic approach”<br>Principal Investigator: Dr. Anju Kunjadiya<br>Co- Investigator: Dr. Nilanjan Roy<br>In collaboration with AAU, Anand | DBT, New Delhi     | 78,37,386/-          |
| 2    | Development of High Tannin Resistant Fungal Strain(s) for Gallic Acid Production<br>Dr. Bhakti Bajpai   | UGC, New Delhi     | 16,70,000/-          |
| 3    | “Approach to resolve identification of compound herbal formulations through DNA barcoding”<br>Dr. Farzin Parabia  | GSBTM, Gandhinagar | 17,93,840/-          |
| 4    | Study of Water Quality Status and Recommendation for Future Activities of Various Pond Waters in Panchmahal and Dahod District, Gujarat<br>PI-Dr. Digvijaysinh Rana<br>Co-PI –Dr. Shilpa Gupte  | DST (NCSTC)        | 8,72,616 /-          |
|      |   | <b>Total</b>       | <b>1,21,73.842/-</b> |

## Project Proposals submitted in 2016-2017

TENresearch projects worth **Rs.18,00,06,689.00** have been submitted in 2016 – till date by faculty members to different funding agencies.

| S.N. | Project Title   | Funding Agency                | Amount (Rs.)                 |
|------|---|-------------------------------|------------------------------|
| 1    | Removal of EDCs using Fungal Augmented Membrane Bioreactor and study of their gene expression profile for elucidation of degradation pathway. Dr. Shilpa Gupte & Dr. Arif Khan              | SERB, DST                     | 48,17,560/-                  |
| 2    | Cloning, expression and characterization of ectABC gene in <i>E. coli</i> Dr. Mukundchandra Thakur & Dr. Gopaljee Gopal   | SERB, DST                     | 81,59,000/-                  |
| 3    | Identification and exploitation of seaweeds as an alternate biofertilizers<br>Dr. Mukundchandra Thakur & Dr. Nilanjan Roy   | DBT                           | 58,61,219/-                  |
| 4    | Genotyping for the beta-casein variants A1 and A2 in Gir, its crossbreds and other zebu cattle breeds of Gujarat for healthy milk production<br>Dr. J. B. Chauhan in collaboration with AAU | GSBTM,<br>Gandhinagar         | 24,14,880/-                  |
| 5    | Pharmacopoeial monographs on Single drugs of medicinal plant<br>Dr. K. Saroja in collaboration with Ayurvedic college   | AYUSH,<br>Ghaziabad           | 30,00,000/-                  |
| 6    | Clinical and In vitro validation of the hypoglycemic effect of Indian traditional Ayurvedic drugs used for type II diabetes management<br>Dr. Pinakin Dhandhukia                            | GSBTM,<br>Gandhinagar         | 47,80,000/-                  |
| 7    | Atal Incubator center Institutional Project   |                               | 139500000/-                  |
| 8    | A study of microbiological and technological aspects of an up-flow anaerobic sludge blanket reactor (UASB) for phthalic acids and its derivatives degradation. PI- Dr. Swati Narolakar      | Reliance,<br>Hazira,<br>Surat | 10,60,000/-                  |
| 9    | “Isolation, identification and crystallization of antimicrobial peptides from fish mucus”<br>PI-Dr. Sandeep Chauvatiya Co-PI Dr. Dipika Patel   | SERB, DST                     | 44,34,000/-                  |
| 10   | “Purification and crystallization of antimicrobial peptides from Marine Actinomycetes<br>PI- Dr. Dipika Patel Co-PI Sandeep Chauvatiya  | DBT (Biocare)                 | 59,80,000/-                  |
| 11   | INSPIRE Internship Camp -2017   | DST                           | 9,75,00,000/-                |
|      |   | <b>Total</b>                  | <b>18,00,16,4390<br/>0/-</b> |

## **Mission Admission**

### **Branding ARIBAS all over Gujarat**

- It has been observed in last couple of years that there is an upsurge in Education Industry, with each region of Gujarat becoming self sufficient in higher education.
- To sustain in the changing scenario of education, ARIBAS has decided to focus locally especially Anand and Kheda district, Ahmedabad and Baroda. For this purpose M. Sc. IGBT faculties personally visited more than 90 schools in and around Anand, Baroda and Ahmedabad.
- ARIBAS is actively involved in spreading awareness about the career options and government fellowships available at various levels of education.

### **DST Sponsored INSPIRE Internship Camp**

- M. Sc. Integrated Biotechnology Department organized second 5d Inspire Internship Camp for School students from 13<sup>th</sup> to 17<sup>th</sup> June 2016.
- Dr. Nilanjan Roy was Coordinator of the camp and ARIBAS received Rs. 9,75,000/- from DST, Govt. of India to organize the camp.
- The camp was absolutely free for students and all the expenses towards food, lodging and travel were met by ARIBAS from the grant received.
- 339 students from Anand and Kheda district, Vadodara, Ahmedabad and Nadiad, Surat, Aklaeshwar, Godhara were registered for the camp out of which 249 students have attended the camp for 5 days.
- During the camp, students got an opportunity to interact with eminent scientists and subject experts.
- Besides, learning the intricacies of basic sciences students got hands on training and career guidance.
- Looking to the overwhelming response from schools, Department has submitted proposal to DST for third INSPIRE camp to be held in June '2017.

### List of schools visited by ARIBAS faculty

| S.N. | Name of the Place            | No. of schools visited |
|------|------------------------------|------------------------|
| 1    | Anand-Vidyanagar             | 17                     |
| 2    | Baroda                       | 19                     |
| 3    | Ahmedabad                    | 27                     |
| 4    | Nadiad                       | 10                     |
| 5    | Borsad/Sarsa                 | 06                     |
| 6    | Umreth/Thasra/Petlad/Dharmaj | 06                     |
|      | <b>Total</b>                 | <b>85</b>              |

### List of students registered for INSPIRE Internship Camp-2016

| S.N. | Name of the Place     | No. of schools participated | No. of students registered for camp |
|------|-----------------------|-----------------------------|-------------------------------------|
| 1    | Baroda                | 12                          | 61                                  |
| 2    | Ahmedabad             | 05                          | 52                                  |
| 3    | Nadiad                | 10                          | 60                                  |
| 4    | Anand-Vidyanagar      | 06                          | 60                                  |
| 5    | Borsad/Dharmaj/Petlad | 04                          | 27                                  |
| 6    | Godhara               | 01                          | 04                                  |
| 7    | Ankleshwar            | 03                          | 32                                  |
| 8    | Surat                 | 03                          | 39                                  |
| 9    | Amreli                | 01                          | 04                                  |
|      | <b>Total</b>          | <b>48</b>                   | <b>339</b>                          |

## CSIR- NET Crash Course

- GSBTM, Gandhinagar recognizes ARIBAS as one of the centre for PG BT-CBC (Biotech capacity building cell) and entrusted ARIBAS fourth time in row for organizing crash course.
- Under its auspices, Dr. Digvijaysinh Rana (Coordinator), faculty M. Sc. IGBT and team have successfully organized 02 crash courses of 5 days each in last one year for CSIR-NET preparation.
- First workshop was held 1<sup>st</sup> to 5<sup>th</sup> June 2016,. A grant of Rs. 2,42,504/-was received from GSBTM for organizing workshop.
- In this, total 85 applications were received from all over Gujarat, out of which 50 were selected for crash course after screening.
- The workshop was conducted from at ARIBAS, New V.V. Nagar, in which students were trained by NET qualified experts, wherein they not only shared their experience but also guided the students to strategically plan for NET examination.
- Students got free study materials, boarding and lodging facility during the program.
- In the same manner PG-BT CBC team coordinated by Dr. Digvijaysinh Rana also organized 5 d CSIR-NET crash course from 24<sup>th</sup> to 28<sup>th</sup> Nov. 2016.
- 70 applications were received. There was participation of 54 students and 20 experts from all over the Gujarat.
- To conduct this workshop ARIBAS received grant of Rupees 2,42,504/- from GSBTM.

## Other Training Programs

1. **Two days Hands on Training programme on Bioinstrumentations** was organized by Scintifiq club of ARIBAS from **17-18<sup>th</sup> of September 2016**. Total 32 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.
2. PCH Departments has arranged a visit for 35 B.Sc. Students of AMCOST College in ARIBAS on 5<sup>th</sup> Jan. 2017 along with their faculty members.
3. Symposium / **Hands On Training Program** for B.Sc. Graduates was organized on **2<sup>nd</sup> February** in collaboration with VP-RPTP Science college, Vallbah Vidyanagar. 200 students were given hands on training in ARIBAS on various Laboratory Instruments like Rota Evaporator, Tablet Punching Machines, TLC/ GC and Bio Assay of Bioactive Compounds.
4. 106 students of B. Sc. Biotechnology, Microbiology and Genetics 6<sup>th</sup> Semester of NVPAS visited ARIBAS on **9<sup>th</sup> and 10<sup>th</sup> February, 2017** for **workshop** on “**BIOTECHNIQUES**” jointly organized by Biotechnology, Genetics, Bioinformatics and Microbiology departments of **NVPAS** and Biotechnology, Genetics and Microbiology departments of **ARIBAS**.
5. 59 School students and 94 College students visited ARIBAS to participate **Scintifiq-2017** (various science based competitions) organised by ARIBAS.

### Summary of activities for college students

| S,N. | Activity                             | Name of college                                | Date  | No. of students |
|------|--------------------------------------|--|---|-----------------|
| 1    | Visit & Counseling by ARIBAS faculty | RKP Arts & Sci. College, Petlad                | 17 <sup>th</sup> Feb. 2017                          | 80              |
| 2    | workshop on “BIOTECHNIQUES           | NVPAS  | 9 <sup>th</sup> and 10 <sup>th</sup> February, 2017 | 106             |
| 3    | Symposium / Hands On Training        | VP-RPTP Science college                        | 2 <sup>nd</sup> Feb 2016                            | 200             |
| 4    | Visit & Counseling by ARIBAS faculty | NV-PAS   | 31 <sup>st</sup> Jan. 2017                          | 100             |
| 5    | Visit & Counseling by ARIBAS faculty | JNJ Sci. college                               | 30 <sup>th</sup> Jan 2017                           | 54              |
| 6    | Scientifiq-2017 Various competitions | NV PAS VP-RPTP                                 | 11 <sup>th</sup> Jan. 2017                          | 94              |
| 7    | ARIBAS visit                         | AMCOST College                                 | 5 <sup>th</sup> Jan. 2017                           | 35              |
| 8    | CSIR NET Crash Course                | All over Gujrat & MS                           | 24 <sup>th</sup> to 28 <sup>th</sup> Nov. 2016      | 54              |
| 9    | CSIR NET Crash Course                | All over Gujrat                                | 1 <sup>st</sup> to 5 <sup>th</sup> June 2016        | 50              |
| 10   | Hands on training                    | N.V. Patel Sc. & V.P & R.P.T.P Science college | 17-18 <sup>th</sup> September 2016                  | 32              |
|      |                                      |  | <b>Total</b>  | <b>805</b>      |



## Library

All books have been barcoded and presently, the book issue/return process is completely barcode enabled.

### Physical Library

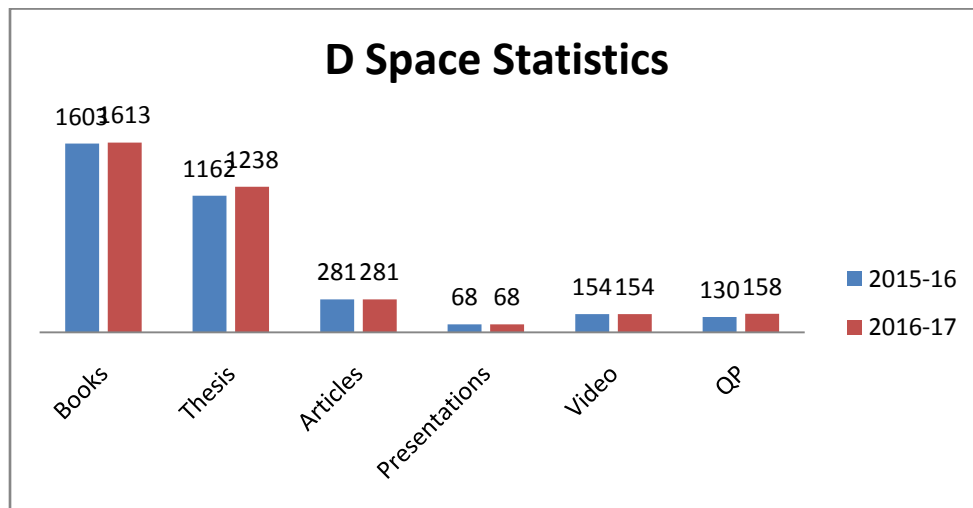
Presently ARIBAS library has **5458** books.

- **183** new books were purchased last year. Considering the demand of the students,
- **24** books for competitive examination preparation like NET/GATE.
- Rs. **45020/-** was provided by GSBTM for book purchase

### Digital library

- Digital Book 1613
- Thesis 1238
- Practical Protocols for all the courses
- Teaching plan for Theory papers
- Internal and external question paper

Here some statistics of our digital library and online books



We also have Video lecture library for CSIR Net Examination

## Annual Report

### Co-Curricular Aspects

#### Orientation Program

- To mark the beginning of the new session Satyanarayan puja and orientation program for Semester I students of the courses were organized on 20<sup>th</sup> June 2016.

#### International Yoga Day

- Yoga day was celebrated jointly with ADIT on 23<sup>rd</sup> June'2016.
- It was coordinated by Sports Committee.

#### Gyan Forum

- The forum organized 02 lectures and 02 Research Methodology Workshops for M. Sc. IGBT Sem. X/M. Sc. Micro/Biotech./Genetics & Pharmaceutical Chemistry Sem IV.
- As a fallout of demonetization it was necessary to educate the students about alternative payment modes and cashless payments; for this a lecture on e-finance was organized

| S.N. | Speaker/Activity  | Topic   | Date   |
|------|---|---|--|
| 1.   | Mr. Mukesh Pal, Branch Operations Manager, HDFC Bank Vallabh Vidyanagar             | e-finance                                       | 04/01/2017                                   |
| 2.   | M. Sc. IGBT Sem. X/M. Sc. Micro/Biotech./Genetics & Pharmaceutical Chemistry Sem IV | Research Methodology workshop                   | 9 <sup>th</sup> & 10 <sup>th</sup> Dec. 2016 |
| 3.   | Mr. Sachin Vyas, JRF at IIT Jodhpur (ARIBAS alumnus (IG-IBT, 2013 batch)            | “Research Opportunities in Biological Sciences” | 12/07/2017                                   |
| 4.   | Poster Presentation   | Dissertation Topic                              | 3/08/2016                                    |
| 5.   | M. Sc. IGBT   | Research Methodology workshop & Mock interview  | 26-30 <sup>th</sup> April-2016               |

### **Research Methodology Workshop**

- Five day Research Methodology Workshop was organized for 73 dissertation students from **26<sup>th</sup> to 30<sup>th</sup> April' 2016** , which was followed by mock interview on the last day.
- Experts from Industry Mr. Daivat Shah, INTAS PHARMACEUTICALS, Ahmedabad and Mr. Samruddha Jadhav, Reliance Life Sci., Mumbai; HR experts from CDC, Vallabh Vidyanagar were called for Mock interview.
- Second Research Methodology workshop was organized 9<sup>th</sup> and 10<sup>th</sup> Dec. 2016 for M. Sc. IGBT Sem. X/M. Sc. Micro/Biotech./Genetics & Pharmaceutical Chemistry Sem IV. 100 students attended the workshop.

### **Parent-Teachers Meeting**

- A Parents-Teachers Meeting was organized by ARIBAS on 5<sup>th</sup> March 2016. Total 13 parents of students from M. Sc. Integrated Biotechnology Semester II to VI came personally to meet teachers; 20 parents interacted on phone.

### **Scintifiq Club**

Club has organized **SCIENTIFIQ-2017** event on **11<sup>th</sup> January 2017**. Total 152 students of various schools and colleges have enrolled. They have enthusiastically participated in various events like Poster presentation, Elocution, Scitoon competition and Quiz.

### **SWAN Club**

- **SWAN club of ARIBAS had** organised a "**Green Campus Program**" at ARIBAS on 12-08-2016.
- SWAN club is going to organise **Nature camp** at **KODADHA** - (LITTLE RANN OF KUTCH for twodays on 24/02/2017 and 25/02/2017.

## Red Ribbon Club

- **Blood Donation and Thallasemia checking Camp**
- Red Ribbon club of ARIBAS had organized a Blood Donation Camp on 12<sup>th</sup> July 2016. More than 50 units of blood collected. And blood sample of 72 students were collected for Thallasemia screening by Indian Red Cross Society.
- Second blood donation was organized on 17<sup>th</sup> Feb. 2017 jointly with NSS, ARIBAS. Gorewala blood bank did collection, 40 units blood was collected.
- Jointly with Community Science Center, Vidyanagar and Scintifiq club scintifiq day has been celebrated on 11<sup>th</sup> Jan. 2017.

## Nari Contractor Sports Club

- ARIBAS stood first in inter collegiate Chess (men) Tournament
- ARIBAS has 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 Women's Table Tennis)
  - Anand District Khel Mahakumbh Table Tennis (Boys,Girls)
  - Anand District Khel Mahakumbh Basket Ball (Boys,Girls)

**The following ARIBAS students were selected for University team to participate in zonal inter-university tournaments**

| S.N. | Name of student  | course              | Game         | Venue     |
|------|------------------|---------------------|--------------|-----------|
| 1    | Mayank Brahmhatt | M. Sc. IGBT Sem IX  | Cricket      | Bhopal    |
| 2    | Mayank Brahmhatt | M. Sc. IGBT Sem IX  | Lawn Tennis  | Bhopal    |
| 3    | Dhruv Patel      | M. Sc. IGBT Sem VI  | Football     | Bhopal    |
| 4    | Karan Patel      | M. Sc. IGBT Sem XI  | Chess        | Bhopal    |
| 5    | Jinal Gajjar     | M. Sc. Micro Sem Vi | Table Tennis | Ahmedabad |

## Excursion

- Department of M. Sc. Integrated Biotechnology had organized one day tour to Sardar Sarovar dam and Poicha for IGBT Sem I to VI students.
- 4d tour was organized for all post graduate students from 29<sup>th</sup> Nov to 3<sup>rd</sup> December 2016. Students visited Ajmer, Jaipur and Udaipur in this voyage and were joined by 06 teachers.

## Bhavai Cultural Club

- As part of Navratri celebrations “**Chalo Garba Ghumie**” was organized on 8<sup>th</sup> Oct -2016.
- Club had also organized talent evening on 4<sup>th</sup> March ‘2016 and will be organizing tonite also.
- To mark “Uttarayan” **Kite Flying** was organized on 11<sup>th</sup> January ‘2016

## Veer Narmad Study Circle

- Veer Narmad Study Club of ARIBAS has organized Book Fair-2016 on 21<sup>st</sup> July 2016.
- Total 5 publishers have displayed Approx. 3000 fiction and non-fiction books.

## Women Cell

- Women Cell of ARIBAS has Organized a talk on the occasion of International Women’s Day on 8<sup>th</sup> March 2016. Dr. Dhvani Sharma (**Incharge , National Secretary, Bharatiya Janta Yuva Morcha**) had delivered a talk on “**Super Woman----Take A lead of your Life**”.All the faculty, teaching and non teaching staff members and Girl Students have attended the program.
- Seven(07) Girl Students of ARIBAS have applied for Indira Gandhi Single girl Child Fellowship.

## NSS

- 100 Students of M.Sc. IGBT Semester I to VI were enrolled as volunteers.
- NSS Orientation programme and Tree plantation was held on 12/8/2016

- MOU was signed with Gana Grampanchayat for Village adoption at Gana Village on 23/9/16.
- ARIBAS NSS Annual Camp was organized in Gana village from 26/11/2016- 2/12/2016.

The following activities were undertaken by the students during camp:

- Prabhat feri and group meditation from dar 2 to 6.
  - Swachhta Abhiyann on day 2 and 3.
  - Awareness on Tobacco and Health Hygiene
  - Awareness session with Gana primary school girls on Menstrual hygiene
  - Tree plantation at primary school campus
  - Blood donation camp DAY-4
  - Survey for ODF re verification at Gana Indira Nivas
  - Free eye checkup and Catract screening camp on DAY5. 18 people had free cataract operation.
  - Free health checkup camp on day 6
  - Free cancer screening camp
- ARIBAS NSS “VYASAN MUKTI” Programme was held at Gana Village.

### **Community Service**

- **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 per the circular from UGC to make students conscious about national cleanliness drive “SWACHHATA DIWAS” was observed on first working day of every week (6/9/26 to 10/10/2016) in which students of participated in campus and class room cleaning.

## Alumni Cell

- **Third Alumni Meet** was organized on 27<sup>th</sup> Feb. 2016. Exhibition of paintings of one of the Alumni of M. Sc. Biotechnology Tirthrajsinh Jhala.
- The function was inaugurated by Mr. Kanubhai F. Patel, Principal CVM Fine Arts College, Vallabh Vidyanagar.
- The panel discussion was on the theme “**Journey of Success**”.

## Cyber Cell / Press

- A very active Press cell managed by Mr. Sanajybhaj, Librarian ARIBAS has made the ARIBAS presence felt by regularly posting the events organized in ARIBAS to print and electronic media.

| S.N. | Name of the News Paper       | Number of times News published |
|------|------------------------------|--------------------------------|
| 1.   | Sardar Gurjari               | 32                             |
| 2.   | Divya Samachar               | 41                             |
| 3.   | Naya Padkar                  | 29                             |
| 4.   | Sandesh                      | 21                             |
| 5.   | Divya Bhaskar                | 18                             |
| 6.   | Charotar no Awaz             | 09                             |
| 7.   | V- Vidyanagar                | 02                             |
| 8.   | Pratahkal (Local news paper) | 06                             |
| 9.   | I-Con News                   | 04                             |
| 10.  | GSTV                         | 04                             |