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“Make one goal of the life-think of it, dream of it an live on that goal. Let the brain, muscles, nerves and every part of your body be engrossed in it. This will lead to the success and satisfaction in life.”

Message From The Chairmen

Education is said to be the medium of transmission of culture and civilization. New Vallabh Vidyanagar of today seems like the fulfillment of Sardar Patel’s vision of a new India. We are the inheritors of the dreams of Shri Bhaikaka and Shri H M Patel and wish to steer New Vidyanagar in to center of excellence in the field of education. CVM has been able to fulfill at another dream into the form of (ARIBAS)Ashok and Rita Patel Institute of Integrated Study and Research in Biotechnology and Allied Science where quality education is being imparted at post graduate and doctorate level. It is needless to say that promotion of technical education is a noble cause which ultimately contributed to the well being of the society.

According to Amos Bronson Alcott, a reformer, teacher and philosopher, “Observation more than book, experience more than persons, are the prime educators”. While academic excellence at par of global standards is our major thrust, the institute is also dedicated to act as a facilitator for students not only to pursue academic excellence but also motivate and empower them to be life long learners, critical thinkers and socially relevant and competent to be a responsibility in all walks of life. In the words of John Dewey, “education is not preparation for life; education is life itself”.

It is our commitment and we pledge to continuously endeavor to set higher standards in biotechnology education. We sincerely believe that the students with their innovative idea contribute positively for technical advancement and be in vanguard of the next generation. Sustained efforts would be made to create such an environment, wherein students can exhibit their extraordinary talent and be rewarded. We resolve to promote creativity, discipline and entrepreneurial skill amongst our students.

I would like to end with the words of Albert Einstein, who once said, “Imagination is more important than knowledge for while knowledge defines all we currently know and understand, imagination points to all we might at discover and create”.

My best wishes to each one of your for future endeavors.

C L Patel
Chairman,
Charutar Vidya Mandal
Message From The Head

One can not pray for easy life but can strive to be equipped and be capable enough to face the inevitable challenging future. To equip the students with the right tools to face those challenging scenarios, we have specially designed curriculum along with team of commendable and experienced teachers who believe in experiment based pedagogic techniques. Our faculty members play a pivotal role in providing personalized attention to students. The teachers in their role as mentor and counselor help students to nurture their talents and overcome short comings by providing appropriate education. The ARIBAS team holds strong faith inwards of Anthony J. D'Angelo, “develop a passion for learning. If you do, you will never cease to grow.”

It is only through the invaluable support and guidance of our Hon. Chairman (CVM), “Charutar Ratna”, Dr. C L Patel and ceaseless dedication and commitment of each member of ARIBAS family, that New Vallabh Vidyanagar could be curved out where education at par of global standards is being imparted. We are consistently striving hard to provide holistic and student centric environment to our student to gain knowledge, skills, abilities, attitudes and believes essential not only for a successful life but also for a modest livelihood. We help student to tap their hidden potential by exposing them to diverse opportunities in large number of curricular and co-curricular and extra-curricular activities. In addition to this, student are trained to learn more by doing things by themselves and trying out new ideas, taking failure and success in their stride, with all their energies focused on honest and purposeful effort.

The performance of the student has been consistent and satisfactory. It is very gratifying to note that our students are being well placed in several industries across the nation, and many students have succeed in acquiring admission in PhD program at reputed institutes/ Universities of India and abroad. I heartily congratulate our students and faculty for having brought such laurels to the institute.

I am confident that ARIBAS will always be a beacon of light, guiding the destiny of its students and radiating kindness and compassion as it soars high in its pursuit of academic excellence and in the fulfillment of the institute motto: “Accomplishing Robust Ingenuity Blooming with Aspiration and Success.” Irrespective of native and social background each student will feel comfortable in this diverse multicultural background. I believe with your cooperation and zeal, we shall be able to provide quality education along with personality development, which will prove to memorable and worthwhile experience for you. I welcome you to ARIBAS where you will experience difference in education and innovation. I am sure that day will come when you will also believe that ARIBAS was the stepping stone to you success and aspiration.

Nilanjan Roy
Director,
ARIBAS
Our Vision

ARIBAS aspires to be a global landmark of intellectual excellence. It embodies the passion for research and quality education at undergraduate, postgraduate 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.

Our Mission

Established in 21st century, ARIBAS infuses the strengths of the experiential learning with research centered spirit, its principle aim is to earn peer and public appreciation and fulfill the academic, economic and professional expectations of state, national and international communities.

ARIBAS aspires to become a world class institute by tapping human potential from all sections of the society towards excellence and building human resource, men and women with strong character and competence capable of being leaders of tomorrow and solving problems arising out of fast changing realities, global and local.

Goals and Objectives

To foster erudite minds and generate opportunities to flourish them.

To be open to express and exchange of ideas where new horizons of discoveries can be accomplished.

To develop student’s competency to think creatively, critically and objectively with core and inter-disciplinary excellence.

To gain solemn public esteem unsurpassed by any other institute.

To serve the mankind with effective instructional, research and outreach programs.
The Making........

In post independence era India was burdened with numerous diseases and needed solution quickly. The Indian patents act, introduced in 1970, boosted Indian pharmaceutical business. According to the patent act of 1970, process patents (patenting the process used to make a particular drug formulation), but not product patents (patenting the product itself) were recognized. This reform made new drugs available cheaply and promoted import substitution by encouraging local firms to make drugs by developing their own processes, followed by bulk drug production. Since 1970 till 2005 most efficient pharmaceutical industries in the world was build in our country manufacturing high-quality medicines at affordable prices to masses.

Suddenly, in early 1995 the rules of the game for pharmaceutical industry had changed, as India has committed to follow the WTO guidelines on product patent. Product patent rules and exclusive marketing rights (EMR) under the WTO created a paradigm shift in India’s pharma majors. As a developing country, India had a 10-year transitional period for giving full patent protection for pharmaceutical and agro-chemical products, which expired in 2005. Given the backdrop of the momentous prospective changes after 2005, uncertainty loomed over the prospects of the 23,000 players of Indian pharmaceutical industry. Moreover, techniques evolved in the post genomic era have accelerated discovery process by looking at many biological processes simultaneously. Advances in computational power, algorithms, and modern database mining techniques are accelerating the discovery of science even more. New powerful techniques to study large number of genes and proteins ‘at a time’ are getting more and more sophisticated. New strategies in Genomics and Proteomics are emerging to identify the role of specific genes in causing and counteracting diseases.

To counteract the dual advancement; WTO and modern era drug discovery, major Indian pharmaceutical companies have started their own drug target and drug discovery program with a handful of scientists trained abroad. Demand for research facilities and trained workforce in of modern drug biology warranted heavily.

To tackle the problem Scientific Advisory Council to the Prime Minister (SAC-PM) under the Chairmanship of Prof. C.N.R. Rao, recommended creation of five new institutions devoted to science education and research to be named “Indian Institutes of Science Education and Research (IISER)” broadly on the lines of Indian Institute of Science (IISc), Bangalore.

The vision of these institutes encompasses creation of research centers of the highest caliber in which teaching and education in basic sciences will be totally integrated with state-of-the-art research.

These Institutions are devoted to integrated teaching in sciences in an intellectually vibrant atmosphere of research and make education and career in basic sciences more attractive by providing opportunities in integrative teaching and learning of sciences.

Based on the recommendation of SAC-PM, five Indian Institutes of Science Education and Research (IISERS), and two National Institute of Science Education and Research (NISER) institutes were created by the Government of India, through the Ministry of Human Resource Development (MHRD), under The National Institutes of Technology Bill. Five IISER have been established strategically across the country (North,
South, East West and middle) namely IISER Mohali in Punjab, IISER Thiruvananthapuram in Kerala, IISER Kolkata in West Bengal, IISER Pune in Maharashtra and IISER Bhopal in Madhya Pradesh with financial outlay of around 5 billion Indian rupees each. Two NISERs administered by the Department of Atomic Energy, are also established in Bhubaneswar and Mumbai for slightly higher outlay of 8 billion Indian rupees each. Era of integrated Biology in India started.

**ARIBAS:**

Under this backdrop of changing National educational scenario Charutar Ratan Dr. C L Patel, Chairman of Charutar Vidya Mandal (CVM) contributed in national dream of integrated study of Biology. Institute of Integrated Study & Research in Biotechnology & Allied Sciences was initiated in New Vicyanagar, Gujarat with financial outlay of around 100 million Indian rupees. Ashok & Rita Patel, USA generously donated 33 million Indian rupees against the total project cost and Ashok & Rita Patel Institute of Integrated Study & Research in Biotechnology & Allied Sciences (ARIBAS) was established in June, 2005. ARIBAS the self-financed educational institution, affiliated to Sardar Patel University, Vidya Nagar recognized as the first institute providing M. Sc. (Integrated) Biotechnology course in Gujarat.

**Why Integrated:**

In the last couple of decades, the field of life sciences has undergone revolutionary changes in data acquisition technology. Genome sequencing methods changed radically; similarly, the field of molecular biology became more mathematics driven. A salient trait of these advances is the increased need for statistical and mathematical modeling along with computational methods. Scientific instruments are now, by orders of magnitude, more sensitive, more specific, and more powerful. The amounts of data collected and processed by these new generation instruments have increased dramatically, rendering insufficient the traditional methods of statistical data analysis. Integration of Chemistry, Physics, Mathematics and Statistics and Computer algorithm with biotechnology became need of the day. Integrated life sciences/biotechnology syllabus of IISER, NISER/ARIBAS is design to cater the need of modern biology.
Admission Procedure

Admission procedure for all courses starts in the month of APRIL

APPLICATION FORMS

Application forms can be availed from the institute on payment of ₹ 500 by cash/DD drawn in favor of ARIBAS. Alternatively, application forms can also be downloaded from the institutional website www.aribas.edu.in. However, at the time of submission of the duly forms at the institute, fees of ₹ 500 should be paid.

ELIGIBILITY FOR ADMISSION

M.Sc. Integrated Biotechnology: 12th Science with biology group or equivalent with minimum 50% marks

M.Sc. Microbiology: B.Sc. Microbiology, Biotechnology, Genetics, Biochemistry, Botany, Zoology from any recognized University of different states of India

M.Sc. Biotechnology: B.Sc. Biotechnology, Genetics, Microbiology, Biochemistry, Botany, Zoology and Paramedical Sciences from any recognized University of different states of India

M.Sc. Pharmaceutical Chemistry: B.Sc. Chemistry, Industrial Chemistry, Microbiology, Biotechnology, B. Pharm. from any recognized University of different states of India

M.Sc. Genetics: B.Sc. Genetics, Microbiology or Biotechnology from any recognized University of different states of India

SELECTION PROCEDURE

Candidates will be selected and admitted on the basis of merit

FEE STRUCTURE

Tuition fees for M.Sc. integrated Biotechnology course is ₹ 30,000 and for M.Sc. (microbiology/Biotechnology/Pharmaceutical Chemistry/Genetics) is ₹ 50,000 per semester. Fees for hostel accommodation, internet, gymkhana and PDP shall be applicable as per University rules

POINTS TO PONDER

Lateral entry or exit after three years is not permitted in Integrated Biotechnology course. Candidate is eligible for M.Sc. Integrated Biotechnology degree only after completion of five and half years (11 semesters).

Four specialization courses (Medical / Industrial / General / Environmental Biotechnology) will be offered after successful completion of six semester in M.Sc. Integrated biotechnology on the basis of merit.

All the enrolled students have to undertake dissertation in their last semester at ARIBAS

Students failing in securing minimum passing marks in internal examination will not be permitted to appear (NPTA) in University examination

Students failing in half of their total theory examination will not be allowed to keep terms (ATKT) in subsequent semesters
Rules & Regulations

1. Admission to M.Sc – Integrated Biotechnology program will be given on the basis of XII standard result. Admission to M.Sc. (Biotechnology / Microbiology / Genetics / Pharmaceutical Chemistry) on the basis of T.Y.B.Sc. result.

2. Candidates getting admission to M. Sc – Integrated Biotechnology or M. Sc. (Biotechnology / Microbiology / Genetics Pharmaceutical Chemistry) program will have to pay full fees for the first year at the time of admission.

3. After admission, the original mark sheet and certificates will be retained by the Institute till the completion of courses.

4. (a) Candidates admitted, (who have passed their Higher Secondary Certificate Examination from Gujarat Secondary Education Board) will have to obtain necessary Enrollment Certificate from Sardar Patel University in due course through the Institute.

(b) Candidates other than mentioned in 4(a) above will have to produce Provisional Eligibility Certificate obtained from Sardar Patel University at the time of submitting the application form and Final Eligibility Certificate within a month after admission.

5. Candidates selected for admission to the program will have to submit the Original mark sheet of HSCE or its equivalent examination / B. Sc. marksheet with a certified copy and School Leaving Certificate.

6. All admissions are subject to confirmation by Sardar Patel University. The students admitted to the course will have to abide by the rules and regulations laid down by the Institute and the University relating to attendance, class work, assignments, test performance etc. failing which they will not be allowed to appear in the University Examination.

7. Once admitted, the students will have to attend the classes regularly. Non-attendance of which will lead to the cancellation of the admission.

8. A student is supposed to take note of all the relevant information, rules and regulations of the course before the fees are paid.

9. Fees and other charges once paid are not refundable under any circumstances, except Caution Money Deposit.

10. The fees will also not be refunded to

a. Provisionally admitted students who fail to produce final eligibility certificate of S. P. University and consequently whose admission is cancelled.

b. Students whose terms are not granted by the university.

11. If the studies are discontinued in between the academic year or in case of change of stay / domicile, the fees paid is not refundable.
12. Study is granted admission taking into consideration that he/she will complete the respective degree program. Hence, cancellation of admission on any ground and under any circumstances will be subject to approval of Chairman, Charutar Vidya Mandal.

13. In order to get the refund of caution money deposit, he/she is required to apply on a plain paper to the Director. He/She is required to surrender original fee receipt to the Institute. His/ Her identity card and library ticket issued to him/her to the Librarian and obtain a no dues certificate from him.

14. As per the government rules, the use of mobile phone is totally prohibited. The Director and Charutar Vidya Mandal is authorized to take disciplinary action against the students who is bringing and/or using the mobile phone in the Institute campus.

15. Hostel is compulsory for the first year students residing beyond 25 kilometers. Use of any drugs, smoking in the institute/premise/hostel will lead to cancellation of admission.

16. It is compulsory for the students staying at the CVM’s hostel to take their meals at hostel mess wherever this facility is available.

17. During the academic year only those programs which are approved by the university, Charutar Vidya Mandal and the Institute will be conducted.

18. Students found harassing or ragging other students in the Institute as well as in the hostel shall be punished as per the Supreme Court Ruling.

19. Student staying in hostel is having a two wheeler, he/she should inform the hostel rctor that he/she is keeping/using the vehicle. The safety of vehicle is at student’s own risk.

20. Fees mentioned do not include any taxes. Any cess or taxes will be charged. as and when levied and applicable.

21. In case of any dispute, the jurisdiction of Courts at Anand will prevail.

22. As per guidelines to UGC by Supreme Court of India Letter F.1-3/2006(CPP-II) dated 4 March, 2008 received by Sarder Patel University, “If any incidence of ragging comes to the notice of the authority the concerned student shall be given liberty to explain and if his explanation is not found satisfactory, the authority would expel him/her from the institution”. 
About THE COURSES

M.Sc. Integrated Biotechnology

- Syllabus of MSc Integrated Biotechnology has Physics Chemistry, Mathematics, Statistics and Computational science essential for inter-disciplinary excellence.
- Semester based, continuous evaluation system equipped with Quiz, Seminar in all subject of all semester for easy learning and monitoring progress.
- Dynamic modular syllabus system and regular revision made the course more relevant for current job market.
- Provision of selection of specialization branch after successful completion of six semesters.
- Six months research work for all final semester students.

COURSE CONTENT (I to VI Semester)

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<td>PS02CGB06 : Bicostatistics</td>
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| III Semester     | | V Semester       |
|------------------| |------------------|
| PS03CGB01 : Physico-inorganic Chemistry | | PS05CGB01 : Enzymology |
| PS03CGB02 : Biochemistry-I | | PS05CGB02 : Recombinant DNA Technology |
| PS03CGB03 : Microbial Physiology | | PS05CGB03 : Biotechnology- Principles and Practices |
| PS03CGB04 : Microbiology-II | | PS05CGB04 : Bioinformatics and Structural Biology |
| PS03CGB05 : Molecular Biology-I | | PS05CGB05 : Bioinstrumentation |
| PS03CGB06 : Introduction to Genetics | | PS05CGB06 : Plant Physiology |
| PS03CGB07 : Practicals | | PS05CGB07 : Practicals |
| PS03CGB08 : Practicals | | PS05CGB08 : Practicals |
| PS03CGB09 : Practicals | | PS05CGB09 : Practicals |
| PS03CGB10 : Viva-voce | | PS05CGB10 : Viva-voce |

| VI Semester | | | |
|--------------| | | |
| PS06CGB01 : Fundamentals of Immunology | | | |
| PS06CGB02 : Genetic Engineering | | | |
| PS06CGB03 : Industrial Microbiology | | | |
| PS06CGB04 : Biosensor and Biocrystallography | | | |
| PS06CGB05 : Bioanalytical Techniques | | | |
| PS06CGB06 : Animal Physiology | | | |
| PS06CGB07 : Practicals | | | |
| PS06CGB08 : Practicals | | | |
| PS06CGB09 : Practicals | | | |
| PS06CGB10 : Viva-voce | | | |
M.Sc. Integrated Biotechnology
COURSE CONTENT (VII to X Semester)

GENERAL BIOTECHNOLOGY

VII Semester
PS07CIGG81: Ecology and Toxicology
PS07CIGG82: Cell Biology and Cell Signaling
PS07CIGG83: Plant Biotechnology
PS07CIGG84: Advanced Molecular Biology
PS07CIGG85: Lab I
PS07CIGG86: Lab II
PS07CIGG87: Viva voce

VIII Semester
PS08CIGG81: Applied Environmental Biotechnology
PS08CIGG82: Bioprocess Engineering and Technology
PS08CIGG83: Omics
PS08CIGG84: Animal Biotechnology
PS08CIGG85: Lab I
PS08CIGG86: Lab II
PS08CIGG87: Viva voce

IX Semester
PS09CIGG81: Genetics of Mammalian Development
PS09CIGG82: Food Biotechnology
PS09CIGG83: Metabolic Engineering
PS09CIGG84: Immunotechnology
PS09CIGG85: Lab I
PS09CIGG86: Lab II
PS09CIGG87: Viva voce

X Semester
PS10CIGG81: Microbial Genetics
PS10CIGG82: Regenerative Medicine
PS10CIGG83: Nanobiotechnology and Applications
PS10CIGG84: Biosafety, Bioethics & IPR
PS10CIGG85: Lab I
PS10CIGG86: Lab II
PS10CIGG87: Viva voce

INDUSTRIAL BIOTECHNOLOGY

VII Semester
PS07CIGI81: Plant Tissue Culture Technology
PS07CIGI82: Animal Tissue Culture Technology
PS07CIGI83: Fermentation Technology
PS07CIGI84: Advanced Molecular Biology
PS07CIGI85: Lab I
PS07CIGI86: Lab II
PS07CIGI87: Viva voce

VIII Semester
PS08CIGI81: Applied Environmental Biotechnology
PS08CIGI82: Biotechnology of fermentation and Biotransformation-I
PS08CIGI83: Omics
PS08CIGI84: Biodegradation and Bioremediation
PS08CIGI85: Lab I
PS08CIGI86: Lab II
PS08CIGI87: Viva voce

IX Semester
PS09CIGI81: Biofertilizer and Biopesticides
PS09CIGI82: Waste Management
PS09CIGI83: Metabolic Engineering
PS09CIGI84: Biotechnology of fermentation and Biotransformation-II
PS09CIGI85: Lab I
PS09CIGI86: Lab II
PS09CIGI87: Viva voce

X Semester
PS10CIGI81: Biopharmaceuticals and Biotherapeutics
PS10CIGI82: Downstream Processing
PS10CIGI83: Nanobiotechnology and Applications
PS10CIGI84: Biosafety, Bioethics & IPR
PS10CIGI85: Lab I
PS10CIGI86: Lab II
PS10CIGI87: Viva voce
# M.Sc. Integrated Biotechnology

## COURSE CONTENT (VII to X Semester)

### ENVIRONMENTAL BIOTECHNOLOGY

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PS07CIGEB2   : Ecology and Biodiversity  
PS07CIGEB3   : Environmental Microbiology  
PS07CIGEB4   : Advanced Molecular Biology  
PS07CIGEB5   : Lab I  
PS07CIGEB6   : Lab II  
PS07CIGEB7   : Viva voce |
| PS08CIGEB1   : Applied Environmental Biotechnology  
PS08CIGEB2   : Environmental Management  
PS08CIGEB3   : Environmental Toxicology  
PS08CIGEB4   : Biodegradation and Bioremediation  
PS08CIGEB5   : Lab I  
PS08CIGEB6   : Lab II  
PS08CIGEB7   : Viva voce |
| PS09CIGEB1   : Green Biotechnology  
PS09CIGEB2   : Waste Management  
PS09CIGEB3   : Metabolic Engineering  
PS09CIGEB4   : Environmental Issues, Impact and Assessment  
PS09CIGEB5   : Lab I  
PS09CIGEB6   : Lab II  
PS09CIGEB7   : Viva voce |
| PS10CIGEB1   : Environment Conservation and Sustainable Development  
PS10CIGEB2   : Biorenewable Energy Resources  
PS10CIGEB3   : Environmental Engineering  
PS10CIGEB4   : Biosafety, Bioethics & IPR  
PS10CIGEB5   : Lab I  
PS10CIGEB6   : Lab II  
PS10CIGEB7   : Viva voce |

### MEDICAL BIOTECHNOLOGY

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| PS07CIGMB1   : Regulation of Metabolic Pathways  
PS07CIGMB2   : Molecular Diagnostic Techniques  
PS07CIGMB3   : Clinical Biochemistry  
PS07CIGMB4   : Advanced Molecular Biology  
PS07CIGMB5   : Lab I  
PS07CIGMB6   : Lab II  
PS07CIGMB7   : Viva voce |
| PS08CIGMB1   : Medical Microbiology  
PS08CIGMB2   : Molecular Medicine-I  
PS08CIGMB3   : Omics  
PS08CIGMB4   : Essentials of Pharmacology  
PS08CIGMB5   : Lab I  
PS08CIGMB6   : Lab II  
PS08CIGMB7   : Viva voce |
| PS09CIGMB1   : Genetics of Mammalian Development  
PS09CIGMB2   : ADME and Toxicology  
PS09CIGMB3   : Metabolic Engineering  
PS09CIGMB4   : Immunotechnology  
PS09CIGMB5   : Lab I  
PS09CIGMB6   : Lab II  
PS09CIGMB7   : Viva voce |
| PS10CIGMB1   : Human Genetics  
PS10CIGMB2   : Regenerative Medicines  
PS10CIGMB3   : Drug Design and Development  
PS10CIGMB4   : Biosafety, Bioethics & IPR  
PS10CIGMB5   : Lab I  
PS10CIGMB6   : Lab II  
PS10CIGMB7   : Viva voce |
# M.Sc. Biotechnology

## COURSE TITLES

### I Semester:
#### Core:
- PS01CB/T01: Molecular biology
- PS01CB/T02: Bioinstrumentation
- PS01CB/T03: Cell Biology & Genetics
- PS01CB/T04: Practices of
- PS01CB/T01 and PS01CB/T02
- PS01CB/T05: Practices of
- PS01CB/T03 and PS01CB/T01
- PS01CB/T06: Viva – voce

#### Elective:
- PS01EB/T01: Biochemistry, Biostatistics, Phytoresource, Human physiology, Microtechniques, Toxicology, Phytoresource Utilization & Conservation

### II Semester:
#### Core:
- PS02CB/T01: Bioprocess and Biochemical Engineering
- PS02CB/T02: Microbial genetics
- PS02CB/T03: Genetic engineering and Bioinformatics
- PS02CB/T04: Practices of
- PS02CB/T01 and PS02CB/T02
- PS02CB/T05: Practices of
- PS02CB/T03 and PS02CB/T01
- PS02CB/T06: Viva – voce

#### Elective:
- PS02EB/T01: Biochemistry, Biostatistics, Phytoresource, Human physiology, Microtechniques, Toxicology, Phytoresource Utilization & Conservation

### III Semester:
#### Core:
- PS03CB/T01: Microbial Biotechnology
- PS03CB/T02: Immunology
- PS03CB/T03: Enzymology
- PS03CB/T04: Practices of
- PS03CB/T01 and PS03CB/T02
- PS03CB/T05: Practices of
- PS03CB/T03 and PS03EB/T01
- PS03CB/T06: Viva voce

#### Elective:
- PS03EB/T01: Biochemistry, Biostatistics, Phytoresource, Human physiology, Microtechniques, Toxicology, Phytoresource Utilization & Conservation

### IV Semester:
#### Core:
- PS04CB/T01: Plant Biotechnology
- PS04CB/T02: Environmental Biotechnology
- PS04CB/T03: Practices of
- PS04CB/T01 and PS04CB/T02
- PS04CB/T05: Viva voce

#### Elective:
- PS04CB/T0X: Dissertation

#### OR
- PS04EB/T01: Phytoresource Utilization & Conservation
- PS04EB/T02: Animal Biotechnology
- PS04CB/T04: Practices of
- PS04CB/T01 and PS04EB/T02
# M.Sc. Microbiology

## COURSE TITLES

### I Semester:

**Core:**
- PS01CMIC01: Molecular Biology
- PS01CMIC02: Bioinstrumentation
- PS01CMIC03: Cell biology and Biochemistry
- PS01CMIC04: Practicals of PS01CMIC01 and PS01CMIC02
- PS01CMIC05: Practicals of PS01CMIC03 and PS01EMIC01
- PS01CMIC06: Viva voce

**Elective:**
- PS01EMIC01: Bioinformatics, Phytoresource utilization and conservation, Microbial Physiology, Biostatistics, Biopharmaceuticals, Medical Microbiology, Plant Biotechnology, Human Physiology.

### II Semester:

**Core:**
- PS02CMIC01: Bioprocess and Biochemical Engineering
- PS02CMIC02: Microbial Genetics
- PS02CMIC03: Immunology
- PS02CMIC04: Practicals of PS02CMIC01 and PS02CMIC02
- PS02CMIC05: Practicals of PS02CMIC03 and PS02EMIC01
- PS02CMIC06: Viva voce

**Elective:**
- PS02EMIC01: Bioinformatics, Phytoresource utilization and conservation, Microbial Physiology, Biostatistics, Biopharmaceuticals, Medical Microbiology, Plant Biotechnology, Human Physiology.

### III Semester:

**Core:**
- PS03CMIC01: Microbial Biotechnology
- PS03CMIC02: Environmental Microbiology and Systematics
- PS03CMIC03: Enzymology
- PS03CMIC04: Practicals of PS03CMIC01 and PS03CMIC02
- PS03CMIC05: Practicals of PS03CMIC03 and PS03EMIC02
- PS03CMIC06: Viva voce

**Elective:**
- PS03EMIC01: Bioinformatics, Phytoresource utilization and conservation, Microbial Physiology, Biostatistics, Biopharmaceuticals, Medical Microbiology, Plant Biotechnology, Human Physiology.

### IV Semester:

**Core:**
- PS04CMIC01: r-DNA technology
- PS04CMIC02: Environmental Biotechnology
- PS04CMIC03: Practicals of PS04CMIC01 and PS04CMIC02
- PS04CMIC04: Viva voce

**Elective:**
- PS04EMIC01: Microbial Physiology
- PS04EMIC02: Bioinformatics
- PS04EMIC03: Practicals of PS04CMIC01 and PS04EMIC02

**OR**
- PS04EMIC01: Dissertation
M.Sc. Genetics

COURSE TITLES

I Semester
Core:
- PS01CGEN01: Cell & Molecular Biology
- PS01CGEN02: Fundamentals of Genetics
- PS01CGEN03: Bioanalytical Techniques
- PS01CGEN04: Practicals of
  PS01CGEN01 and PS01CGEN02
- PS01CGEN05: Practicals of
  PS01CGEN03 and PS01EGEN01
- PS01CGEN06: Viva - voce
Elective:
- PS01EGEN01: Human Physiology and Clinical Correlates, Microbial Genetics, Population and Evolutionary Genetics, Essentials of Biochemistry

II Semester
Core:
- PS02CGEN01: Biostatistics & Bioinformatics
- PS02CGEN02: Cytogenetics
- PS02CGEN03: r-DNA Technology
- PS02CGEN04: Practicals of
  PS02CGEN01 and PS02CGEN02
- PS02CGEN05: Practicals of
  PS02CGEN03 and PS02EGEN01
- PS02CGEN06: Viva - voce
Elective:
- PS02EGEN01: Human Physiology and Clinical Correlates, Microbial Genetics, Population and Evolutionary Genetics, Essentials of Biochemistry

III Semester
Core:
- PS03CGEN01: Immunogenetics Genetics
- PS03CGEN02: Human Molecular Genetics
- PS03CGEN03: Genetics in Crop Improvement
- PS03CGEN04: Practicals of
  PS03CGEN01 and PS03CGEN02
- PS03CGEN05: Practicals of
  PS03CGEN03 and PS03EGEN01
Elective:
- PS03EGEN04: Human Physiology and Clinical Correlates, Microbial Genetics, Population and Evolutionary Genetics, Essentials of Biochemistry

IV Semester
Core:
- PS04CGEN01: Animal Genetics
- PS04CGEN02: Gene Therapy & Genetic Counseling
- PS04CGEN03: Practicals of
  PS04CGEN01 and PS04CGEN02
- PS04EGEN03: Practicals of
  PS04EGEN01 and PS04EGEN02
- PS04CGEN05: Viva - voce
Elective:
- PS04CGEN04: Dissertation
OR
- PS04XEGEN01: Microbial Genetics
- PS04XEGEN02: Human Physiology and Clinical Correlates
# M.Sc. Pharmaceutical Chemistry

## Course Titles

### I Semester

**Core:**
- PS01CPCH01: Basic Physiology and Pharmacognosy
- PS01CPCH 02: Natural Products
- PS01CPCH 03: Basic Chemistry for Pharmaceuticals
- PS01CPCH 04: Practicals of PS01CPCH01 and PS01CPCH02
- PS01CPCH 05: Practicals of PS01CPCH03 and PS01EPCH01
- PS01CPCH 06: Viva - voce

**Elective:**
- PS01EPCH 01: Biophysical Chemistry, Polymer Technology

### II Semester

**Core:**
- PS02CPCH01: Basic Pharmaceutics and pharmacology
- PS02CPCH02: Medicinal Chemistry – I
- PS02CPCH03: Separation Techniques
- PS02CPCH04: Practicals of PS02CPCH01 and PS02CPCH02
- PS02CPCH05: Practicals of PS02CPCH03 and PS02EPCH04
- PS02CPCH06: Viva - voce

**Elective:**
- PS02EPCH01: Organic Chemistry, Inorganic Drug Chemistry

### III Semester

**Core:**
- PS03CPCH01: Drug Design and Development
- PS03CPCH02: Medicinal Chemistry - II
- PS03CPCH03: Spectroscopic Techniques for Quality Control
- PS03CPCH04: Practicals of PS03CPCH01 and PS03CPCH02
- PS03CPCH05: Practicals of PS03CPCH03 and PS03EPCH01
- PS03CPCH06: Viva - voce

**Elective:**
- PS03EPCH01: Advance Pharmaceutical Chemistry, Mechanical Operations

### IV Semester

**Core:**
- PS04CPCH01: Advances in Pharmaceutical Technology and Drug Delivery systems
- PS04CPCH02: Medicinal Chemistry - III
- PS04CPCH03: Validation, Documentation and Cgmp
- PS03CPCH06: Viva - voce

**Elective:**
- PS03EPCH01: Advance techniques of Synthetic chemistry
- PS03EPCH02: Industrial Hygiene and Safety
- PS04CPCH04: Practicals of PS04CPCH01 and PS04CPCH02
- PS04CPCH05: Practicals (Pertaining to PS04CPCH03 and PS04EPCH01)

**OR**
- PS04CPCH04 & 05: Dissertation
Infrastructure Facility

BUILDING
Three storied building divided into six units covering 17,781.15 Sq. Mt area
14 class rooms, 22 state-of-the-art laboratories, 6 seminar rooms, auditorium, 2 examination halls, boys room, girls room, canteen, sports room

Library

- Library: DPAC Library searchable by title, author, publisher. Search 6000 books + 17 journals.
- n-List: InflaNet Center; digital repository of research of UGC Search 70,000+ books, 1000+ journals.
- Virtual Lab: World's largest multidisciplinary open access library covering the fields of Science, Technology and Medicine. Search 1200+ books.

We are N-list enabled campus

- 460 Sq. Mt. area
- Adequate number of books, scientific journals and magazines
- E-resources of >3000 e journals and >75,000 e books
- Computers for students to access the e-resources

COMPUTER AND INTERNET
113 computers of latest configuration. Separate laboratory for bioinformatics. Separate computer room for internet access. LAN facility throughout the institute 24 X 7. Wi-Fi facility

SPORTS
- Sports room for indoor games
- Sports ground for outdoor games
- Well qualified sports teacher
- Organization of zonal, regional, state and national level sports events
Instrument Facility

ARIBAS has well equipped state-of-the-art laboratories with all routine lab equipments (pH meter, balance, colorimeter, compound microscopes, autoclave, distillery, incubator, shaker, electrophoresis, centrifuge, etc...). In addition to this, the institute has below mentioned sophisticated instruments for research purpose:

- PCR machines
- Real time PCR
- UV-VIS spectrophotometer
- Nano Drop Spectrophotometer
- Lab Scale Fermenter
- Gel Documentation System
- Research Microscope with Image analyzer
- Microplate Reader
- Lyophilizer
- 2-D Electrophoresis
- Probe Sonicator
- CO₂ Incubator
M. Sc. Biotechnology

Dr. Anju Kunjadia
Asst. Prof., M.Sc., Ph.D.
Biotechnology (9 yrs)

Dr. Mukund Thakur
Asst. Prof., M.Sc., Ph.D.
Biotechnology (6.5 yrs)

Dr. Arif Khan
Asst. Prof., M.Sc., Ph.D., NET
Biotechnology (5.5 yrs)

M. Sc. Microbiology

Dr. Shilpa Gupte
Asst. Prof., M.Sc., Ph.D.
Microbiology (16 yrs)

Mr. Snehal Ingle
Asst. Prof., M.Sc., NET
Microbiology (6 yrs)

Dr. Jenabhai Chauhan
Asst. Prof., M.Sc., Ph.D.
Biochemistry (15 yrs)

Dr. Sunil Khristie
Asst. Prof., M.Sc., Ph.D.
Biotechnology (4.5 yrs)

M. Sc. Pharmaceutical Chemistry

Dr. Hiren Doshi
Asst. Prof., M.Sc., Ph.D.
Org. Chemistry (12 yrs)

Dr. Hemul Patel
Asst. Prof., M.Sc., Ph.D.
Poly. Chemistry (6 yrs)

Dr. Arunabh Mishra
Asst. Prof., M.Sc., M.Phil., Ph.D.
Phy. Chemistry (14 yrs)

Dr. Rejnikant Patel
Asst. Prof., M.P.Ed., Ph.D.
Sports

Physical Instructor
Student’s Clubs

NSS 100 student volunteers have registered for NSS and performed various activities like: Tree plantation, Initiated anti tobacco mission, Organized a kite festival for the kids, Seven day camp in Ode village from where Data collected for Diabetes, hypertension, oral cancer, and potable water quality

Red Ribbon Club conducts various activities with a motto to spread awareness against AIDS in students. Various competitions related to HIV and AIDS awareness were conducted in schools closer to Anand and Nadiad district. Anti-HIV radio talk show from community radio station (90.4 FM), Website of RRC is launched.

SWAN Club organizes various activities with a motto to spread awareness about nature in students. Organized “Reptile Education Program”, a survey on “Status, distribution and conservation of Muggers in Charotar, Gujarat. A workshop on “Vocational training in Horticulture and Composting”, Analyzed water samples from the different ponds of before and after Ganesh Visarjana and published in local news paper as a part of public awareness.

Gyan Club invites eminent personalities for guest lectures to lend valuable information from their vast experiences to our students. Conducts PDP classes to develop the communication skill and personality of the students, PhD seminar each Friday, NET (National Eligibility Test) guidance, Dissertation crash course to orient the students for research.

Scientific Club has organized a one day orientation course on “Hands on training” program on “Bioinformatics”, and “Chemoinformatics” for faculties. Organized a one day training program on “Basics of Protein Structure and Ramachandran Plot” and ‘Microbiological Analysis in Pharmaceutical Industry’. Organized one day training program in Government PG Arts and Science College, Ratlam (MP).
Vir Narmad Study Club: Several activities were initiated to increase literary skills of ARIBAS students. Bi-monthly ARIBAS news initiated to update ARIBAS alumni and well-wisher about ARIBAS. Quest was reorganized as scientific journal and application for ISSN is submitted.

Nari Contractor Sports Club: conducts various sport activities at the institute like Chess, Table Tennis, Lawn tennis and Cricket at various levels. For the first time ARIBAS cricket team won runners-up trophy beating all previous year champions cricket organized by Group of Progressive Colleges. The club arranged blood donation camp twice this year. In 2009, the Sir Frank Worrell Memorial Blood Drive was begun in Trinidad and Tobago, inaugurated by the 74-year-old Nari Contractor. Our Sports club donated blood on the same day.

Bhavai Cultural Club (BCC) organized and participated in “Young Voter’s Festival” as an initiative by election commission, Government of Gujarat. “Chalo Garbe Ghumie”- a one day navaratri was celebrated with great fanaticism. The students participated in “Run for Unity” on 15th Dec 2013, organized by Government of Gujarat. Students also participated in “Udaan 2013” organized by Group of Progressive Colleges and won 9 prizes in different events. Student participated in “Amul Volcano-2014” organized by Rotary club Anand and won 4 prizes in different events namely graffiti, cookery show, scene a magic and GK quiz.

Women cell looks after the matters related to female students/faculties. A talk on: “Women: Foundation pillar of revolutions in today’s progressive world”, “Strategies of women empowerment”, “Female Foeticide and women empowerment” was organized. Conducted a certificate course on Self defense program (Padkar) along with Gujarat Sports association. Members attended one day workshop on “Women Awareness Program” organized by Sardar Patel university. 13 girl students received ‘Indira Gandhi Scholarship for Single Girl Child’.
Career and Prospects

Career Counseling Cell (C-Cube) for career guidance and placement of students is in place. Made online registration for the students for placement by various employers. Currently 51 students have registered and many more will be registering soon. floated resume of all the registered students amongst the employers established a strong network for placement of the students with number of reputed companies like Intas Pharmaceuticals, Sorbead India, Alembic, Vrind Ltd., Hetero, Lincon etc.
### Academia / Government

<table>
<thead>
<tr>
<th>I. Research &amp; Development</th>
<th>II. Teaching &amp; Research</th>
<th>III. Quality Control</th>
<th>IV. Clinical Research</th>
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<tbody>
<tr>
<td>1. Senior Research Fellow</td>
<td>1. Assistant Professor(Lecturer)</td>
<td>1. Quality Control Analyst</td>
<td>1. Clinical Research Fellow</td>
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<td>2. Research Associate</td>
<td>2. Associate Professor(Reader)</td>
<td>2. Environmental Health and Safety Specialist</td>
<td>2. Clinical Research Associate</td>
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<td>5. Senior Scientist</td>
<td>5. Some Special Chairs</td>
<td>5. Validation Scientist</td>
<td>5. Clinical Data Specialist</td>
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<td>7. Agricultural Biotechnologist</td>
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<td>8. Conservation Geneticist</td>
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<td>9. Environmental Biotechnologist</td>
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<td>10. Fermentation Scientist</td>
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<td>11. Human Geneticist</td>
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<td>12. Immunologist</td>
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<td>13. Plant Molecular Biologist</td>
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<td>14. Plant Pathologist</td>
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<td>15. Microbiologist</td>
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### Industry

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<tr>
<th>I. Research &amp; Development</th>
<th>II. Regulatory Affair</th>
<th>III. Information System</th>
<th>IV. Marketing &amp; Sales</th>
<th>V. Administration</th>
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<tr>
<td>7. Biochemical Development Engineer</td>
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<td>8. Process Development Associate</td>
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<td>9. Assay Analyst</td>
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<td>10. Manufacturing Engineer</td>
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<td>11. Bioprocess Engineer</td>
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<td>Dhaivat Shah</td>
<td>Intas Pharma, Ahmedabad (R&amp;D)</td>
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<td>Bhaskar Reddy</td>
<td>Persuing Ph.D. Gujarat University, Ahmedabad</td>
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<td>Navya Rajan</td>
<td>Research Fellow, CSMCRI, Bhavnagar</td>
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<td>Debayan Dilip Baidya</td>
<td>Research Scholar, ARIBAS</td>
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<td>Mansi R Desai</td>
<td>Research Scholar, ARIBAS</td>
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<td>Shefali P Macwan</td>
<td>S.R.F., Animal Genetics and Breeding, AAU. Anand.</td>
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<td>Dhruba A Patel</td>
<td>J.R.F. at GSBTM, Gandhinagar</td>
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<td>Rachana N. Patel</td>
<td>Technical Asst. S.N. GENE Lab, Surat</td>
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<td>Nareshr C Bhuva</td>
<td>Technician, New Civil Hospital &amp; Government Medical College, Surat</td>
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<td>Jigarkumar V Suthar</td>
<td>Entrepreneur, Genetics Group of Gujarat</td>
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<td>Tusharkumar B Kachhadly</td>
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<td>Ravi Kumar J Parmar</td>
<td>Lab Technician, Indian Red Cross Society, Ahmedabad.</td>
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<td>Ankit J Patel</td>
<td>Trainee at Sardar Patel Institute of public Administration</td>
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<td>Mili Naiwal</td>
<td>Research Scholar, ARIBAS</td>
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<td>Janik Patel</td>
<td>Research Scholar, ARIBAS</td>
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<td>Niyati Vyas</td>
<td>Trainee R &amp; D , Meghmani Organic Ltd, Dahej</td>
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<td>Jinal D Patel</td>
<td>Persuing higher studies at USA/Canada</td>
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<td>Divyang B Bhatt</td>
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<td>Avani Devmurari</td>
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<td>Bhavya Patel</td>
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<td>Krupal Patel</td>
<td>Sunpharma, Selvasa- QC Department</td>
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<td>Payal Mahant</td>
<td>Illusim Pharma, Vadodara- QC Department</td>
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<td>Sagar Surani</td>
<td>Trainee. Kalki Chemicals, Nandesari- QC Department</td>
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<td>Bhumi Joshi</td>
<td>Trainee- Supra-Tech- Micropath Deptarment, A'bad</td>
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<td>Viral Rao</td>
<td>Trainee- Zydsus Pharma, A'bad</td>
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<td>Chintan Patel</td>
<td>Trainee- Glenmark Ltd, Akleshwar-Production Department</td>
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<td>Kinjal Patel</td>
<td>Trainee- Glenmark Ltd, Akleshwar- QC Department</td>
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<td>Alpesh Thakar</td>
<td>Trainee- US-Vitamins, Vepi, QA Department</td>
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<td>Darshan Shukla</td>
<td>Trainee- Dimee Pharma, Vapi - Production Department</td>
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<td>Prakash Nandiyar</td>
<td>Trainee- Sun Pharma, Penoli - QC Department</td>
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<td>Aarti Singh</td>
<td>Torrent Pharma, R &amp; D Department, A'bad</td>
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<td>Cadila, Panoli- QC Department</td>
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<td>Smit Shah</td>
<td>Environmental Officer, Sterling Biotech, Vadodara</td>
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<td>Nirav Patel</td>
<td>Environmental Officer, Sterling Biotech, Vadodara</td>
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<td>Vaibhav Kathiriya</td>
<td>Scientist, INTAS Pharmaceuticals</td>
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<td>Gopal Dhedhi</td>
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ARIBAS Prospectus 25
Glimpses of ARIBAS 2013-14

Accreditation:
ARIBAS was accredited at A grade by NAAC & Academic and Administrative Audit (KCG, Gujarat Government) reflecting its quality education and infrastructure.

Dissertation:
This year 122 students underwent dissertation of which 78 students preferred in-house dissertation whereas 44 preferred in other institute and research organization.

Glimpses of Dissertation:

Ragibase: Ragibase is manually curated knowledgebase intended for researchers. It contains protein and nucleotide sequences. The work is done at ARIBAS as a part of platform work of the submitted project to Indo-Swiss Collaboration in Biotechnology (ISCB).

Effect of magnetism in seed germination: One of our students got remarkable result by studying the effect of magnetism on seed germination and has a potential for commercialization.

Plastic degradation: The team of researchers at ARIBAS identified bacteria that decomposed three different types of plastics.

Competitive examination:
Students are always motivated for various competitive examinations. Many students appeared for GATE examination. This year Yash Patel, Jay Rangani, Varun Bavda and Vinithra Iyer qualified GATE examination with 179, 304 and 498 All India Rank respectively.

Vinithra Iyer secured first position in Minakshi Lalit Examination in Life Sciences at state level.

Jaydeep Bhadrukiya, has been successful in thorough screening of interview and group discussion and got selected for Ph.D. at Center for Cell and Molecular Biology (CCMB), Hyderabad.

Sachin Vyasa, Aakruti Shah and Joel Christie has qualified an entrance test of Tata Institute of Fundamental Research (TIFR), Mumbai and will soon be appearing for an interview in 10 leading research institute.

Research:
3 students have completed their Doctoral study. 20 Students have enrolled for Ph.D. 21 faculties have been recognized for guiding PhD students in various disciplines. 7 students have been offered a Junior Research Fellowship in various research projects. Research proposals have been submitted to various funding agencies for financial support. Faculties are actively involved in research and publications, 83 publication were made this year (http://scholar.google.co.in/citations?hl=en&view_op=search_authors&mauthors=ARIBAS).

Scholarship:
SC/ST scholarship drive reached a new height compared to past few years (Rs. 17,97,000). Two students have received Inspire fellowship for research from DST. One student has received Rajiv Gandhi Fellowship for SC/ST for pursuing PhD.
Faculty Achievements

Plastic-eating bugs may tackle waste crisis:
ARIBAS, tested a set of bacteria on plastic pellets collected from the Umreth landfill site. The team of researchers under Dr. Devjani Banerjee at ARIBAS identified one bacteria belonging to the family of Micrococcaceae Gram positive bacteria and two bacteria belonging to the Enterobacteriaceae family that decomposed three different types of plastics - low density

“Plant Genome Evolution-2013” organized by Elsevier Ltd. (UK), an international conference at Amsterdam starting form 8 Sep, 2013 invited Dr. Farzin M. Parabia to present a paper entitled “Curation of genome data of neglected crop Finger millet (Eleusine coracana)” . The work is done in ARIBAS by his team and a part of platform work of the submitted project to Indo-Swiss Collaboration in Biotechnology (ISCB), Department of Science and Technology (DST), Department of Biotechnology (DBT). University Grant Commission (UGC) and Charutar Vidyamandal (CVM) have supported Dr. Farzin M. Parabia financially for this endeavor.

Student’s Achievements

ARIBAS research got international recognition
Ramesh Pandit persuing PhD at ARIBAS received best poster award at International Conference on NextGen Genomics & Bioinformatics Technologies (NGBT) held on 14-16” Nov. 2013 at CSIR-IIB, New Delhi organized by SciGenom Research foundation (SGRF).

Young Scientist Competition-2013
A National level review and research paper publication competition conducted by “International Journal of Pharmacy Research & Technology” is held at Surat, Gujarat. Sandip H. Patel, stood 2” in Review Article Competition, Samir A. Anuj, stood 3” in Research Paper Competition

Pride of ARIBAS

Four students of ARIBAS successfully cleared prestigious Graduate Aptitude Test in Engineering (GATE) conducted jointly by the Indian Institute of Science and seven Indian Institutes of Technology. GATE is an all-India examination that primarily tests the comprehensive understanding of various undergraduate subjects in engineering and science. Yash Patel, All India Rank (AIR 179); Jay Rangani (AIR 304), Varun Bavda, (AIR 498) and Vinithra Iyer (AIR 498) qualified GATE this year.

ARIBAS students are also equally successful in National Eligibility Test (NET) conducted by CSIR UGC. The basic objective is to determine eligibility for college & University level lectureship and for award of Junior Research Fellowship (JRF) for Indian nationals in order to ensure minimum standards for the entrants in the teaching profession and research. Mr. Jaydeep Bhadrukiya (AIR 39) Visha Gandhi (AIR 22) Jay Rangani (AIR 35) qualified as JRF. Mr. Sachin Vyas, Deval Shah, Varun Bavda, Preeti Singh and Hiren Macwan qualified for lectureship in CSIR UGC NET.

These gems made all ARIBAS members proud.
Alumni

ARIBAS Alumni Association:

ARIBAS Alumni Association (A-Cube) is a bridge between present and past members of the ARIBAS family from all batches and branches. It is envisaged that A-Cube will pave the way for meaningful interaction between Alumni-Faculty-Students. We plan to organize reunion of Alumni at a regular interval. This reunion will also highlight achievements of alumni who have excelled in their field of work. This would also provide great opportunity to rejoice with long lost friends.

First Alumni meet was held in ARIBAS auditorium on 6th October 2013. 200 alumni from academia, industries, along with students of ARIBAS attended the meet. Alumni elected alumni Office Bearers during the meet. A panel discussion on syllabus, requirement of industry and current need of academia was conducted. Suggestions given by alumni were noted for further action. Mr. Dhaivat Shah, Secretary of alumni cell took initiative for the placement of the students. As a result of his effort three students selected for R & D of Intas pharmaceuticals. Mr. Rajat Gupta, President of alumni cell promised practical training for couple of month in his company Dwarkesh Pharmaceutical, Ahmadabad.
About Vallabhbh Vidyanagar

Culture
The town is a synthesis of varied cultures, which enable it to evolve and expand the quality of life, as well as to foster an environment of creativity amongst the student citizens. Those who stay here always cherish the golden moments of life in the campus. Today, the town has compounded in strength and consolidated itself to take on the challenges of the emerging future. Vidyanagar is a mixed culture of say pan-India. One is sure to find the different ways of cultural exchanges among the students and faculties.

Life
The life at Vidyanagar is all about discovering one’s self. To be a part of the life that will offer a lot one should be ready to take up the challenges. Academics is at its best, fun and frolics do compete with it. Days are hectic with studies while nights go with fun places filling the air with discussions about the day's happenings and eating out at almost all the places that glitter with neon lights. Roaming till late night is a very common aspect of citizens. Even girls are safe.

Environ
When one enters Vidyanagar, the lush greenery, which is a sure means of breathing fresh air in all seasons, catches the eyes of the naturalist. Its lush green trees of different types and kinds have not only made the town environment-friendly, but also have created a serene and ever-enjoyable tranquil atmosphere generating syncritic ecstasy in the campus. The campuses are surrounded with trees of various kinds. Vallabhbh Vidyanagar is blessed with the splendor of nature. The pollution-free environs, attracting many to make the town their permanent home, add value to the academic life in the campus.

Amenities
Vallabhbh Vidyanagar has all the amenities which a metropolis may offer, rather it has the best of both the worlds - glamour of a big city and simplicity of a small town. Apart from the academic aspect, V.V.Nagar has a unique chain of food courts, major nationalized and non-nationalized banks and accommodation facilities up to five star levels. It encapsulates the contemporary trends of the youth, while at the same time it attempts to make these trends meaningful by the presence of different spiritual vibes.

Location
Vallabhbh Vidyanagar embraces a rarity of raison d'être behind its origin and a variety of education with its development and growth. Strategically located between Ahmedabad and Vadodara, Vallabhbh Vidyanagar today is reckoned to be an Active Educational core in western India & just six kilometers from India’s milk city Anand. One can approach Vallabhbh Vidyanagar by flying to the International airport at Ahmedabad as well as the Domestic airport at Vadodara. If one chooses to travel by road, National Highway 8 or Expressway can be used - It takes about an hour to reach Vallabhbh Vidyanagar from Ahmedabad and less than that from Vadodara.
Charutar Vidya Mandal

Path Traversed

Vallabhi Vidyanagar, which has a short past but a long history, is a living memorial of Sardar Patel, the epic person. He dreamt of a modern and prosperous Independent India in terms of regeneration of villages through (1) the establishment of institutions of modern education, (2) advanced agriculture and (3) cooperative ventures. We are indeed very fortunate that we have here all the three. Vallabhi Vidyanagar is the realization of his first dream; Institute of Agriculture at Anand (now Anand Agricultural University) is the fruition of the second and Amul Dairy, the cradle of cooperative dairying, is the fulfillment of the third.

BHAIIKA & BHKHABHAI: THE CREATOR DUO

The genesis and phenomenal growth and development of Vallabhi Vidyanagar, the well-planned and unique educational township situated in the heart of the Gujarat State, is stranger than fiction. Based on local talent and local resources it is a peerless example of self-reliance and dedication.

While working in Sind (now in Pakistan) as Superintending Engineer in Sukkur Barrage, Yavat in Maharashtra and Ahmedabad Municipality, as a distinguished Chief Engineer, Shri Bhallalbhai Dyabhai Patel, later warmly taken to their heart by the people of Gujarat as ‘Bhaikaka’, had earned reputation for his sense of values, discipline, dedication to duty and absolute integrity. Having been born and brought up in a family of stranded financial resources in Sojitra village in Kheda district he had known what it meant to be poor. So, while in the government service he would pine for dedicating himself to the cause of rural India which was sunk in anarxia, squall and abject poverty. Once during a meeting between him and Sardar Vallabhbhai Patel, who knew Bhakhaka as a man of practical bent of mind, unusual ability and character, Sardar advised him to go to the villages and for their regeneration. Sardar’s wish was tantamount to a command to him. Bhakhaka’s irresistible desire to improve the lot of the poor villagers coupled with Sardar’s advice or command impelled him to take early retirement from the service. He saw that the most potent instrument to improve the subhuman life of villagers was to bring higher learning to their very doorstep and thus the concept of establishing institutions of higher education started taking shape. He got in touch with Shri Bhikhakhbhai Kuberbhai Patel, a dedicated and far sighted educationalist, fired by the same ideal. He had played a pivotal role in the establishment of Charutar Education Society in Anand and Narmada Kelavani Mandal at Shukliateerth.

• Torrential Rain of Land

They held several meetings in different parts of Kheda (then Kaira) district and a couple of them of about five hundred persons interested in higher education in Anand town. On March 28, 1945 it was decided to draw and implement the plan of planting an educational township in a wilderness infested with dacots which later came to be known as Vallabhi Vidyanagar. Bhakhaka and Bhikhakhbhai worked out an ingenious scheme based on enlightened self-interest. They persuaded the farmers to donate their land free of cost, saying, “Donate your land to us now; we’ll develop and use two-thirds and return you the remaining one-third in course of time”. It was explained to them that while having the pleasure of assisting in the establishment of an educational township at no cost to themselves the building plots they would each obtain would appreciate sufficiently not only to cover the value of the land donated, but also leave a handsome margin of profit. It was a win-win situation and the response to it was overwhelming. At a meeting in Bakrol, a village at a hailing distance from today’s Vallabhi Vidyanagar, spontaneous offer of land was made to Bhakhaka and Bhikhakhbhai. A map of the village was spread before the duo and they were asked to mark with a pencil the area needed. Residents of Anand and Karamsad (Sardar Patel’s village) followed suit. Thus a total of 555 acres of land at the intersection of Bakrol, Karamsad and Anand was received in donation. It was a torrential rain of land!

• Exemplary Self-reliance

The founders decided to establish two institutions - Charutar Vidya Mandal and Charotar Gramodhatar Sahakari Mandal. The former was to be devoted to the cause of education, that is, establishing colleges and schools and the latter meant to produce the building materials for educational institutions and residential quarters. They were registered on August 10, 1945 and September 7, 1945, respectively.

Bhaikaka and Bhikhakhbhai came to reside in the wilderness in an improvised residence - a hut measuring 8 ft and 10 ft on March 3, 1946. They chose a mango tree and installed themselves under it, in the divine presence of Lord Brahma, the Super Creator, dreaming, planning, breaking a new ground, organizing, getting things done and resolving snarls to plant a city of education far from the madding hustle and bustle of cities. It merits a special mention here that Bhaikaka, the Patriarch of Mango Tree, as he was then called, despised the idea of borrowing know-how and do-how from anywhere. His indomitable faith in the local human material, though inexperienced, propelled him to bake bricks for the buildings locally. He established building material units – workshop and foundry, cement pipe factory, tiles factory, rubber factory and prestressed concrete factory to produce, in addition to bricks, lime, timber doors and windows, flooring tiles, hune pipes and various concrete products. The materials thus produced worked out cheaper than in the market and in addition, provided employment to the local people. It is difficult to resist the temptation of recalling here that Bhaikaka invited a Harjani to inaugurate the brickklin, a Muslim mechanic to lay the foundation of the workshop and foundry and a Brahmin to lay the first brick of the V.P. Science College! A printing press named as Gramodhatar Printing Press for printing handbills, booklets, books, research journals and question papers was also set up.

Bhaikaka, the man with green thumb, planted a thousand trees. It is to him that we owe the lush green, stately, shady trees all along the roads in Vallabhi Vidyanagar.
• First College Born

While many pessimists seriously doubted the success of the ambitious project of establishing an educational town with a view to bringing about regeneration of villages through modern education and employment and thereby arresting the exodus of promising youth from villages to cities, Sardar Patel, the unerring judge of men and women, not only wholeheartedly blessed the great adventure but also expressed his tremendous faith in its success. Inspiration, encouragement and unbounded support of the mighty Sardar, blessings of Mahatma Gandhi and extraordinary hard work of the founders ushered into existence Vithalbhai Patel Mahavidyalaya in June 1947. The birth of the first college, like the birth of the child, was hailed with a fanfare of trumpets! B.A. and B.Sc. classes commenced between towering walls sans any roof. It is something to write home about that teachers and students carried with cheer bricks and mortar after the conclusion of their classes and sweated along with the skilled and semi-skilled construction workers!

Justice M.C. Chagla, Vice-Chancellor, University of Bombay, during his visit to Vallabhbhai Vidyangar in 1947, was all praise for it when he said, “I came here... and found a new magic. Dreams have come to reality. As the Vice-Chancellor, I am proud that such an ideal college is affiliated to the University of Bombay. I see the seeds of real educational revolution being sown in this soil...”

While performing the opening ceremony of the College, Sardar Patel complimented Bhakaiya, the great public servant, for his tireless efforts and appealed to the public to give him their unflinching support and pray for the realization of his dream of an ideal seat of learning.

Jawaharlal Nehru, who laid the foundation stone of Vallabhbhai Vidyangar observed...”The first thing I have liked is that the activities here have the object of serving village people. The other thing I have liked is that you do not care whether your house is ready or not. You know how to start putting it to use and start your activities. Here we find harmony of principle and practice. This institution by itself prepares its requirements. I earnestly hope that the example of this institution will not only be followed in this province but throughout the country...”

It is noteworthy that many reputed men of letters from all over the country joined the Vithalbhai Patel Mahavidyalaya as teachers in response to the appeal of the founders who ensured that the quality of education imparted was first-rate. In order that new teachers too equip their students with the latest advances in their respective disciplines they sent nearly a dozen teachers to U.K., U.S.A. and Germany for receiving advanced training in research.

Many citizens of Anand and nearby places volunteered generous help in running the college and in the development of the matchless educational township. In the face of a swarm of problems, mostly financial, they stood by the great visionaries and helped them surmount these boldly and imaginatively. Sir C.V. Raman and Lady Raman graced the first Annual Day celebration of the college.

• Birth of Colleges of Engineering and Commerce

Within a short span of five years there came into existence two colleges, one of engineering and the other of commerce. Birla Education Trust made a munificent donation of twenty-five lakhs of rupees (in those days!) for the engineering college which was named Birla Vishwakarma Mahavidyalaya (Engineering College, 1948). Lord Mounbatten declared it open on June 14, 1948 when he said:

“...This concept of Sardar Patel’s is therefore all important in modern India, and as an experiment in village reconstruction. I hope that we shall see its application in other parts of the country. The two societies (Charutar Vidyapith Mandel and Charchor Gramdar Sahakari Mandal) which are carrying out the work seem to me to be admirably suited for the purpose. On the one hand you have one society dealing with the uplift work in the villages, covering sanitation, water supply, drainage, housing and cottage industries, while on the other hand you have the other society carrying out educational activities. It is clear from what Mr. Patel (Bhakaiya) said in his speech that from the start the organizers have kept before them the project of a residential university, and I am glad to see that the educational areas of the township have been planned accordingly... It is a real pleasure to me to be here this afternoon and to perform this ceremony, the last of its kind which it will be my pleasure to perform in India as Governor-General.”

The engineering college was the first one started by a private trust in the entire Bombay State, which extended from Karachi to Dharavad, and the first one in Gujarat State. The commerce college, foundation stone of which was laid by Dr. Rajendra Prasad, was named Bhikhalbhai Jivabhai Vaniya Mahavidyalaya (1950). Visits of several very important persons one after another and their expression of the high opinion of the boundless courage, selflessness and practical idealism of the founders and their team of dedicated colleagues shot Vallabhbhai Vidyangar to national fame. So impressed were the Gujaratis staying in British East Africa by the vision and mission of the founders that they donated ten lakhs of rupees in the year 1951 for the development of the ‘Oobriwig’ of India. And the growth and development continued to take place by leaps and bounds. A hostel for women students, a number of hostels for men students, buildings for housing primary and secondary schools, residential quarters for teachers and other functionaries of educational institutions, tenements for labourers working in building material factories were constructed from the donations that flowed in. Establishment of Gram Panchayat (1954) and start of National Cadet Corps station command (1954) and Vallabhbhai Vidyangar railway station (1957) added new dimension to the prolific development of Vallabhbhai Vidyangar. And all this within a short span of only eight years!

• Birth of Sardar Patel University

It was Vallabhbhai Vidyangar’s crowning glory when within ten years of its foundation it became a university township in October 1955. The university was named Sardar Vallabhbhai Vidyangar and Bhakaiya, author of more than half a dozen books and numerous articles, was appropriately appointed its first Vice-Chancellor on December 19, 1955. The academic community of Gujarat hailed the appointment. Most of the college teachers, who were sent abroad to receive research degrees and had been teaching post-graduate classes since 1948, were appointed to the university’s post-graduate departments. Several others were appointed through advertisement in all-India newspapers. Bhakaiya created facilities for research and encouraged participation in academic conferences, seminars and workshops in spite of the fact that in the initial years the Government did not give any financial help whatsoever to the university! So keen was his interest in research that the Charutar Vidyai Mandal published in 1957 Vallabhbhai Vidyangar Research Bulletin—a biannual. A great tragedy befell Vallabhbhai Vidyangar when Shri Bhikhalbhai Kuborbhai Patel, who had drafted the constitution of the university and helped its birth, passed away in 1956. It was a tremendous
loss to Bhaikaka and to the numerous pupils of Shri Bhaikaka. Out of the sixty-one years that he lived Bhaikabhai, reverently called 'Saheb', devoted forty-two to education. Even now, after more than half a century of his departure, his former pupils, spreading all over the world, remember him and deem themselves blessed to have been groomed by him. By establishing Bhalalbhai & Bhaikabhai Polytechnic (B & B Institute of Technology) in 1958 Charutar Vidiya Mandal paid tribute to its cofounder in a befitting manner. The founding of Bhaikabhai Saheb PTC College six years ago bears testimony to the Mandal’s renewed expression of gratitude to the scintillating educator.

On the conclusion of his three-year term as the Vice-Chancellor in December, 1958 Bhaikaka entered active politics, for he felt that educated, honest and good people must take part in politics if they want to stamp out corruption, ensure rule of law and democracy to flourish. He severed his direct responsibility for the Charutar Vidiya Mandal and invited Shri H.M. Patel, an I.C.S. officer of great repute, who had provided strategic guidance during the Partition of India, to nurture it as the Chairman.

But he continued to evince keen interest in the progress of Vallabhbhai Vidyanagar and to make himself available for advice and guidance till his sad demise on March 31, 1970. Vallabhbhai Vidyanagar felt orphaned. He was cremated at the spot where he and Bhaikabhai had lived in a hut, now a place of pilgrimage.

• Special Convocation Honours Bhaikaka

It was a memorable event when Sardar Vallabhbhai Patelpeeth held a special convocation on November 12, 1959 to confer upon Bhaikaka honorary degree of Doctor of Science as an expression of gratitude for its creator. Dr. S. Radhakishan delivered the convocation address.

H. M. PATEL & PROLIFIC DEVELOPMENT

Shri H.M. Patel, a civil servant of distinction, had served the country as Cabinet Secretary, Partition Secretary, Defence Secretary, Food and Agriculture Secretary and Principal Finance Secretary. The thirty-five years between 1918 and 1953, during which he served the Charutar Vidiya Mandal as Bhaikaka’s successor, were the years when Vallabhbhai Vidyanagar grew and developed at an incredibly fast pace under his visionary stewardship.

• New Colleges Born


It is hearthing to note that Nalini and Arvind College, Vithalthaibhai Patel Mahavidyalya (Science College), Bhalalbhai Jvatbhai Mahavidyalaya and H M Patel Institute of English were recipients of Best Collegeaward of Gujarat. The award, instituted by the Government of Gujarat, carried fifty thousand rupees in cash. Vithalthaibhai Patel Mahavidyalaya bagged the award thrice in succession!

• Institute of English

Author of books in English and Gujarati, such as the First Flush of Freedom, Rites of Passage and HVino Aksharde, a translator and an orator, Shri H. M. Patel was deeply concerned about the declining standards of English teaching in Gujarat. He held that English is the language of wider communication in today’s world. He envisioned the establishment of an institution to train teachers of English and gave shape to his vision. He donated the purse presented to him by his admirers on his 60th birthday and the H.M. Patel Institute of English Training & Research came into existence in 1965. The Institute has planned new and uncommon programmes and added different dimensions to the educational scene. It is hearthing that the institute is now upgraded to function as an Institution of Advanced Studies in Education (English).

Spacious buildings for housing the new colleges and schools were constructed and administrative buildings, library halls, new wings, workshops, computer laboratories and floors were added to the institutions in order to meet the requirements of the growing number of students. Not only this, a number of hostels - New Hostel Block A, B and C, Bhaikaka Hostel and Ranak Hostel for girls etc. were constructed to accommodate them. Numerous houses for teaching and non-teaching staff were also built.

Shri H.M. Patel always accorded importance to co-curricular and extra-curricular activities like seminars, discussion groups, games and sports and cultural activities as means of development of personality. With a view to honouring the memory of those who contributed to the birth and growth of Vallabhbhai Vidyanagar and providing opportunity to the students and teachers to broaden their mental horizon, he initiated Sarad Patel Memorial Lecture Series in the Sarad Patel University and Bhaikabhai Memorial Lecture Series and Ishwar Patel Memorial Lecture Series in the Charutar Vidiya Mandal. He created infrastructural facilities like the badminton hall, basketball courts and cricket ground etc. in and near Shastri Maidan.

• Agro-Economic Centre & SPREDI

With a view to promoting rural development he persuaded the Ministry of Agriculture and Irrigation, Government of India, to establish Agro-Economic Research Centre for Gujarat and Rajasthan here at Vallabhbhai Vidyanagar. Ever since the inception of the centre in 1951 it nurtured it with great care and foresight. The Sarad Patel Renewable Energy Research Institute (earlier Jyoti Solar Energy institute) owes its existence to Shri H. M. Patel. The institute is doing laudable work in evolving a local rural-based integrated system of energy in which solar energy, biogas and wind energy could be used in the rural areas in an environmentally clean way.

• Vithalthaibhai Patel & Medical Campus

Shri H.M. Patel, like Bhaikaka, maintained that one of the aims of founding Vallabhbhai Vidyanagar being to make the local youth more employable it was desirable to provide suitable employment to those who received education here so that they may develop a drift could be arrested. Therefore, he conceived the project of establishing an industrial town in the vicinity of Vallabhbhai Vidyanagar and named it after another illustrious son of Charotar area, Vithalthaibhai Patel, elder brother of Sarad
Vallabhbhai Patel. Thus was born Vithal Udyognagar, spreading over five hundred and fifty acres of land with a total of four hundred and fifty units, twelve big and the rest medium and small.

Shri H.M. Patel worked relentlessly for providing the latest healthcare facilities to the rural masses and took up, when he was close to seventy-five years of age, the ambitious project of establishing a well-equipped Hospital and Medical College in the rural surroundings near Karamsad (Sardar Patel’s village). The unique Hospital and Medical College Complex, managed by the Charutar Arogya Mandal, of which too he was the Chairman, consists of Shree Krishna Hospital and Medical Research Centre, Pramukh Swami Medical College, H.M Patel Institute of Medical Laboratory Technology, Khushabhai M. Patel Institute of Physiotherapy, Shri A.D. Gorwala Blood Bank and Manibhai Shrivabhai Cancer Centre.

Honours Bestowed

In recognition of his great service to Charutar Vidya Mandal and through it the Sardar Patel University, in the development of which he played a prominent role, the university conferred upon him honorary degree of Doctor of Letters. He also received Albert Schweitzer Award of Animal Welfare Institute of USA for championing the cause of affection and conservation of wild life and Nangis Dutt Award (posthumously), for his production of the feature film ‘Sardar’. The film has been hailed as a lively depiction of some aspects of Sardar’s stellar contribution to India after Independence.

Like Bhikhabhai, he too entered politics with a view to rooting out corruption and lawlessness and strengthening democracy.

Even as Cabinet Minister in the Central Government he kept constant touch with his institutions in Vallabhbhai Vidyanagar. Despite the heavy responsibilities with which he was saddled he would come down here at least once a month and arrange meetings with the Principals of colleges and schools and preside over functions.

Shri H. M. Patel passed away on November 30, 1993, creating a deep void in the academic life of Vallabhbhai Vidyanagar. A pall of gloom descended on Vallabhbhai Vidyanagar where he had devoted himself to the building and nurturing of institutions to serve the common man.

C. L. PATEL & BIRTH OF NEW VALLABH VIDYANAGAR

Dr. Chhotubhai L. Patel, former Executive Engineer in Gujarat Electricity Board, succeeded Shri H.M. Patel as the Chairman of the Charutar Vidya Mandal on April 9, 1994. Endowed with rich practical sense, sound realism and sold and unshakable endurance he is the true and worthy successor of Shri Bhikhabhai, Shri Bhikhabhai Patel and Shri H. M. Patel. Shri Bhikhabhai and Shri Bhikhabhai created Vallabhbhai Vidyanagar. Shri H. M. Patel created Vithal Udyognagar and Aroynagar near Karamsad and Dr. C.L. Patel is the creator of New Vallabhbhai Vidyanagar, lush green mushrooming satellite township, near Karamsad, Megni and Gona. It has, besides educational institutions, like colleges of Engineering and Technology Pharmacy and Ayurveda, Ayurvedic hospital, Design Institute, Industrial Training Centre, staff quarters, shopping centre, playgrounds and auditorium.

More Colleges & Research Centre

Dr. C.L. Patel, the man with Midas touch, has set up several self-financed colleges: Natubhai V. Patel College of Pure and Applied Sciences (1996), G.H. Patel College of Engineering and Technology (GCET) 1996, Sardar Gun) Mercantile Cooperative Bank Ltd. - English Medium College of Commerce and Management (SEMCOM, 1997) and Institute of Technology for Advanced Studies & Research (ISTAR) 1998. ISTAR is a post-graduate learning centre with eight programmes in science, eight in engineering, six in pharmacy and four multidisciplinary programmes. He has also established Sophisticated Instrumentation Centre for Applied Research & Testing (SICART) in 1999, a national-level centre with unique testing facility with ultra sophisticated instruments. A. D. Patel Institute of Technology (2000), S.S Patel College of Physical Education (2002), an Industrial Training Centre named Chimanhbai M.U. Patel Industrial Training Centre, C. Z. Patel College of Business & Management (2003), Indukaka Icnowala College of Pharmacy (2003), Waymade College of Education and Bhikhabhai Sahib PTC College (both in 2004), Govindbhai Jorabhai Patel Institute of Ayurvedic Study and Research and Surajben Govindbhai Patel Ayurveda Hospital and Maternity Home (2005) and Ashok & Rita Patel Institute of Integrated Study in Biotechnology & Allied Sciences (2005). He set up in 2006 Surrathnibhai P. Patel Primary School (Gujarat-medium) and Vasaniben and Chandubhai Patel English School (Central Board of Secondary Education) and in 2009 CVM Institute for Degree Course in Pharmacy (CDCP), which is renamed as Shantaben Manubhai Patel Institute of Studies and Research in Pharmacy (SMIP) Centre for Studies & Research on Life & Works of Sardar Vallabhbhai Patel (CERLIP), Institute of Computer & Communication Technology for Women (ICCT). now called Madhuben and Bhanubhai Patel Women Institute of Engineering for Studies and Research in Computer and Communication Technology (MBICT) and Institute of Language Studies & Applied Social Sciences (ILSASS). It always pleased Dr. C. L. Patel to see lamentable indifference of the youth in this part of the country to take competitive examinations for Central Services. Instead of complaining he established IAS Academy where ambitious young men and women undergo training to appear for competitive examinations.

Dr. C. L. Patel’s thirst for establishing new institutes is unquenchable. He has established National School of Law & Justice, School-Primary & Secondary (Gujarati and English Medium), Renewable Energy Studies and Research Centre, Research & Development Centre for Ayurvedic Centre for Studies & Research in Management, Shantaben Manubhai Patel School of Studies and Research in Architecture and Interior Design (SMAlID) and CVM College of Fine Arts (CCFA)

In order to keep pace with the fiercely competitive world by revitalize the society through quality education the institutions established by Dr. C. L. Patel import education in Valuation (Plant & Machinery), first of its kind in the world, Industrial Polymers, Industrial Chemistry, Computer Science, Information Science, Biotechnology, Food Processing, Environmental Science, Instrumentation, Information Technology, Electronics and Communication and Mechantronics etc. Postgraduate programme in E-commerce is one of the latest introduced under his dynamic stewardship.
**Academic Collaboration with Foreign Universities**

With a view to creating learning opportunities for students of SMCOM and C L Patel College of Business & Management at the global level he has signed Memorandum of Understanding with Georgia South Western State University, Myres University, Cleveland, Malaspina University, University of Hertfordshire and British Columbia University. He has also signed MoU with University of Cincinnati, USA, and Eastern Michigan University, USA, for exchange of faculty for Master of Industrial Hygiene & Safety and Master of Science in Paints & Varnishes programmes, rural ISTAR.

Dr. C L Patel has extensively renovated and refurbished the Ipsowazla Santam College of Fine Arts and Rama Manubhai Desai College of Music & Dance to accommodate the existing colleges of Fine Arts (Drawing, Painting, Sculpture and Commercial Art etc.) and Music & Dance. He has extended the buildings of H M Patel Institute of English and constructed separate library buildings for Vithalbhai Patel Mahaviyalaya and Rajratan P R Patel College of Fine Arts, Nalini & T V Patel College of Music, S M Patel College of Home Science, Birla Vishwakarma Mahaviyalaya (Engineering College) and Natubhai V Patel College of Pure and Applied Sciences.

He has adopted Kheda Jilla Bal Kalyan Sargh, an institution well situated to the welfare of women and children of rural areas.

**Adoption of Needy Youth**

He has also been adopting for the last six years a number of needy Kashmiri youth who have been victim of terrorism. They are receiving education in the institutions of Charotar Vidya Mandal.

Shapurbhai Patel Learning Centre, which houses a library, particularly for children; also his creation, aims at serving the various schools run by Charotar Vidya Mandal. He has made a handsome donation to the C L Patel Centre for Production & Civil Engineering. In addition, separate hostels for boys and girls belonging to G. H. Patel College of Engineering & Technology (GGET) and A. D. Patel Institute of Technology (ADIT) have been built under his dynamic leadership.

Dr. Patel, the visionary leader, is a team player who believes in "None of us is as strong as all of us." With his team of devoted academicians-secretaries he has been nurturing nearly forty-eight educational institutions for the last twenty years, contributing to the spectacular growth of Vallabh Vidyanagar and New Vallabh Vidyanagar.

It is noteworthy that he has been instrumental in publishing a collection of writings on the life and works of Sardar Patel entitled "Rashtriya Samvadta na Sarjak". The publication has won wide acclaim. He has also initiated Dr. Dilavarsinh Jadiya Memorial Lecture Series. It merits special mention that he collected donations from the engineering experts and educational institutions of Vallabh Vidyanagar and built seven primary schools in the earthquake-ravaged Bhachau taluka of Kutch and named them after the mighty Sardar Patel and thus paid tribute to him in a befitting manner.

**Honours Conferred**

In recognition of his outstanding service to the society he has won innumerable accolades, some of which are: Anand Round Town Club honoured him with Charotar Ratna award and Anoopam Mission with Shalin Manav Ratna award. Sardar Patel University, with the development of which he has been actively associated for over two decades, conferred upon him honorary degree of Doctor of Letters as a token of gratitude to him. And Anand Agricultural University honoured him with Doctor of Literature Degree (Honoris Causa), for his exemplary commitment in the field of education.

The twin campuses of Vallabh Vidyanagar and New Vallabh Vidyanagar of Charotar Vidya Mandal are shining examples of an institution serving the community in the field of education and contributing to the improvement of the quality of life of the people.

The question that has been asked time and again ever since the birth of Vallabh Vidyanagar is "Where does so much money come from?"

The answer is that Dr. C L Patel, like his predecessors, receives massive donations from his numerous well-wishers and philanthropists in India and abroad, who have tremendous faith in him. He, in turn, has immense faith in the public sense and generosity of our people and believes that right public cause sincerely undertaken can never suffer for want of funds.

Is not the genesis, growth and development of the six-eight-year old but youthful Vallabh Vidyanagar stronger than fiction?
About New Vallabhbh Vidyanagar

A new self contained Satellite Township called New Vallabh Vidyanagar sprawled over 100 acres has already received an investment of around US $20 million.

The Campus is located behind the Industrial Area of Vithal Udyognagar. The campus presently accommodates A.D.Patel Institute of Technology (ADIT), Indukaka Ipcowala College of Pharmacy (IICP), Ashok and Rita Patel Institute of Integrated Study & Research in Biotechnology & Allied Sciences (ARIBAS), G.J. Patel Institute of Ayurvedic Study and Research, S.G.Patel Ayurveda Hospital and Maternity Home, Chinmaybhai M.U.Patel Industrial Training centre (IITC), Madhuben and Bhanubhai Patel Women Institute of Engineering for Studies and Research in Computer and Communication Technology (MB/ICT), Shantaben Manubhai Patel School of Studies and Research in Architecture and Interior Design (SMID) and C. Z. Patel College of Business and Management (CZPCBM). Beside, the playground is the ADIT Workshop with a large sports complex in its basement.

The campus also houses the Boys' and Girls' Hostel Blocks along with a mess and Staff Apartments, Principals' bungalows, amenity building with Shopping and Medical facilities and a landscaped Public Garden.

The next phase of expansion will see another 70 acres being joined to the campus with institutes such as Advanced Law College, College of Applied Social Sciences, College of Hospitality, Tourism and Travel, English and Gujarati Medium Secondary Schools along with increased residential facilities. The latest additions at New Vallabh Vidyanagar is the work on setting up there, a college for Language studies, Diploma degree Pharmacy college and a centrally air conditioned new engineering college is progressing at a supersonic speed. It is the dream and vision of Dr. C. L. Patel that the campus be spread over 300 acres in its final phase.
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