



DEPARTMENT OF BIOSCIENCES



Veer Narmad South Gujarat University

SINCE 1976

Prospectus 2025



CONTACT US

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INDEX

Sr. No.	Title	Page No.
1	VNSGU Profile.....	1
2	Department Profile.....	2
3	Dr. K.N. Chavda, Vice - Chancellor Message.....	3
4	Dr. R.C. Gadhvi, Registrar Message.....	4
5	Incumbency Former Head Messages.....	5
6	Former Professor Messages.....	14
7	HOD Messages From The Desk.....	16
8	Faculties of Department.....	20
9	Courses Curriculum.....	39
10	Structural Organization of Department.....	54
11	Man Power.....	55
12	Features.....	57
13	Facilities.....	58
14	BVBRC.....	75
14	Library.....	137
15	Research at Glance.....	139
16	Research Projects.....	140
17	Faculty Overseas Visit.....	144
18	Ph.D. Awardees... ..	147
19	Fellowships.....	151
20	Student Exchange.....	152
21	Alumni Archives.....	153
22	List of Seminar / Conference / Workshop / Training at Department.....	162

23	List of Curricular Activities.....	181
24	MOUs.....	222
25	Testimonials.....	223
26	Special Achievement.....	230
27	Glimpse of Research Activity.....	231
28	Connect with us.....	240



ABOUT THE UNIVERSITY



The university was originally established under the South Gujarat University Act, 1965 passed by the Gujarat State Legislative Assembly. It became functional in the academic year of 1966, incorporated as a university on May 23, 1967, and recognized by the University Grants Commission in 1968. The university was renamed as Veer Narmad South Gujarat University in 2004 after the great Gujarati poet Narmad, Narmadshankar Lalshankar Dave. The University is one of the eleven Public Universities of the state.

VNSGU, located in Surat city, has a campus spread over 210 acres and university's jurisdiction extends to the seven districts of Surat, Navsari, Valsad, Narmada, Dangs, Bharuch, and Tapi and the Union Territory of Daman and Dadra & Nagar Haveli.

The university has 28 Post Graduate departments/institute on campus that offers 95 programs with multiple specializations in twelve faculties as Arts, Commerce, Science, Education, Management Studies, Rural Studies, Engineering and Technology, Medicine, Law, Computer Science, Homoeopathic, and Architecture. Departments offers Ph. D., Post Graduate, Graduate, PG Diploma, and Certificate programmes on campus.

The university has been re-accredited 'B++' grade with a 2.86 CGPA by the National Accreditation and Assessment Council (NAAC) in 2023 and rated Four Star (3.01 CGPA) in GSIRF (Gujarat State Institutional Rating Framework in 2022). The university has endeavoured to be an institution of excellence in higher education since its establishment, keeping in view the regional needs and to meet the challenges of the 21st century India and emerging trends in the global scenario.



ABOUT THE DEPARTMENT

Department of Biosciences (UGC-SAP DRS-II & DST-FIST-I) is a premier academic and research institute of the South Gujarat region in the field of life sciences established under the developmental grants of UGC during the IV Five-year plan in 1976. The department offers M.Sc., Ph. D. courses in Biosciences with specialization in Botany, Zoology, and Microbiology. The department also runs P.G. Diploma in Medical Laboratory Technology (PGDMLT). More than 140 Ph. D. students have been passed out since the establishment of the department. The department has completed several research projects funded by State, National, and international funding agencies. The department has MoU with many National and international institutes and organizations. The students' emigration into the foreign country indicates our global acceptance. The department is well-equipped with sophisticated instruments to research in the identified areas of life sciences. The department is having Bioinformatics lab and a Supercomputer facility. In 2021 ICMR approved Covid -19 RTPCR laboratory was also established at the department through which department arouse social consciousness of the students by providing them opportunities to work with and among the people and to develop capacity to meet emergencies and utilize their knowledge in finding practical solution to individual and community problems. The department has also comprehensively developed the core research facility in the Microbiome, Bioinformatics, Eco genomics, Animal Cell culture, Environmental Toxicology, Floral and faunal diversity, Medicinal Plant, Drug Discovery, Sustainable environment etc. and interdisciplinary and multidisciplinary research as well. Department also organises various co-curricular ad extracurricular activities to bring social skills, intellectual skills, moral values, personality progress and character appeal in student, thus overall growth of the students.

Dr. Kishorsinh N. Chavda
Vice Chancellor



From the Desk of Honourable Vice Chancellor

We welcome young minds to the Department of Biosciences at Veer Narmad South Gujarat University. At Department of Biosciences, we are committed to fostering a vibrant academic environment where innovation, exploration and collaboration thrive. As a student here, you will have access to advanced facility, top faculty and a curriculum designed to equip you with the knowledge and skills necessary to excel in the dynamic field of Biosciences.

Our dedicated faculty members are not only experts in their respective fields but also passionate educators who are deeply invested in your success. Through their mentorship and guidance, you will have the opportunity to engage in cutting-edge research, participate in experiential learning opportunities and contribute to advancements in various branches of Biosciences.

Whether your interests lie in botany, zoology, microbiology or any other aspect of Biosciences, our department offers a diverse range of programs and specializations to cater your academic and professional aspirations.

Moreover, beyond the classroom, you will find a diverse range of extracurricular activities, student organizations and community engagement initiatives that will enrich your overall university experience and help you develop into well-rounded individuals poised to make a positive impact on society.

As you embark on this exciting journey with us, I encourage you to embrace every opportunity for learning, growth and discovery. Remember, the Department of Biosciences at Veer Narmad South Gujarat University is not just a place to earn a degree - it is a community where lifelong connections are forged and dreams are realized.

Welcome to Department of Biosciences, VNSGU!


Dr. Kishorsinh N. Chavda

Vice Chancellor

Veer Narmad South Gujarat University

WHO WE ARE

The Department of Biosciences at VNSGU is a distinguished institution dedicated to excellence in academic and research pursuits in the life sciences. Established in 1976, our department has grown into a premier bioscience institute in the South Gujarat region, recognized by UGC-SAP DRS-II and DST-FIST-I. We offer a comprehensive range of academic programs, including M.Sc., M.Phil., and Ph.D. courses in Biosciences specializing in Botany, Zoology, Microbiology. Our P.G. Diploma in Medical Laboratory Technologies (PGDMLTs) & P.G. Diploma in Toxicology (PGDT) provides practical skills development.



PROGRAMS

M. Sc. (BOTANY)

M. Sc. (ZOOLOGY)

M. Sc. (MICROBIOLOGY)

P.G.D.M.L.T

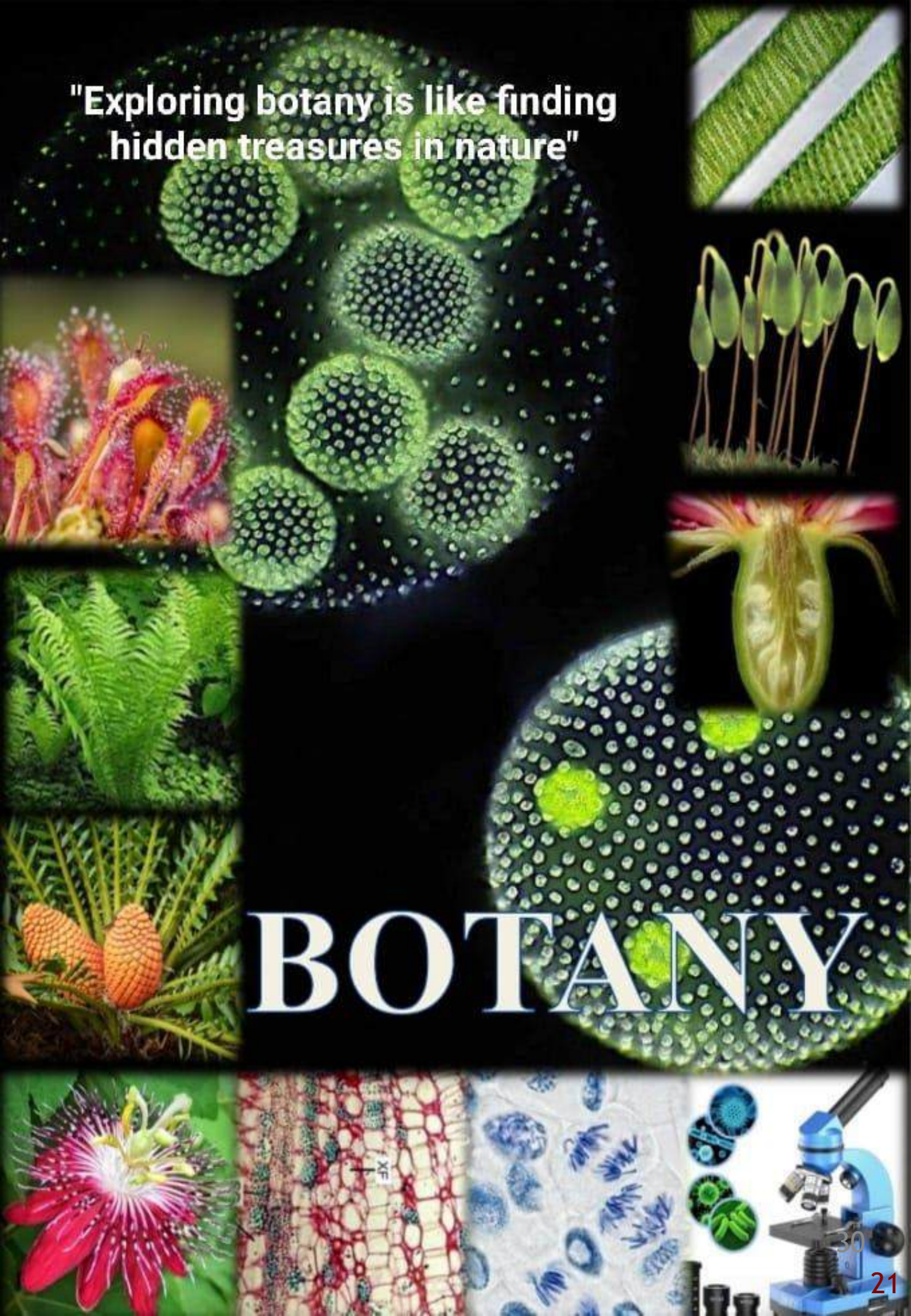
P. G. Diploma in Toxicology

Ph. D.

Our system encourages critical thinking and an innovative spirit.

FACULTIES OF THE DEPARTMENT

"Exploring botany is like finding
hidden treasures in nature"



BOTANY



DR. KAILASH PATEL

Professor & Head

**Ph.D. (Botany), M.Sc.,
B.Ed.**

Experience : 25 years

Publications : 43

Books : 2

Dr. Kailash P. Patel working as Professor and Head at Department of Biosciences, VNSGU, Surat. She is avid researcher of university for 25 years, who prioritize student participation in the classroom, research lab and field work. Her areas of expertise include Plant Physiology, Plant Anatomy, Environmental Toxicology, and Agricultural Microbiology. She is teaching at post graduate level and a Ph.D. Guide in Bioscience in the University. There are 3 M. Phil. and 10 Ph.D. students had successfully completed their Research Work under her guidance and currently assisting 05 Ph.D. scholars in their research work. There are more than 40 dissertations successfully completed under her guidance.

She has also successfully completed one minor and two major research projects based on Environmental Toxicology and Agriculture. Recently she get two minor and one major research projects from ICSSR and UGC, among which one collaborative project with social sciences, funded by ICSSR. Dr. Patel was also actively participated in the departmental projects UGC-SAP-DRS-I and UGC-SAP-DRS-II, as her 3 Ph.D. students earned UGC-SAP-BSR fellowships.



DR. FARZIN PARABIA

Associate Professor

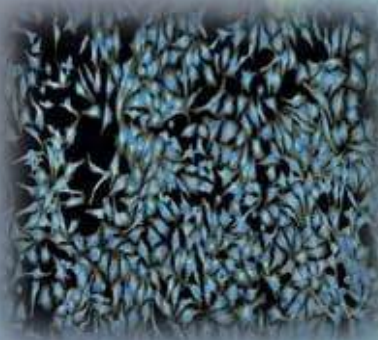
Ph.D. (Botany)
Experience : 15 years
Publication : 17
Books : 05

Dr. Farzin Parabia working as Associate Professor at Biosciences department. He has advised numerous Ph.D., M.Phil and M.Sc. dissertation thesis. He has received GSBTM funded research project on application of plant DNA barcoding to detect adulteration in herbal products. He has written international collaborative projects with Swiss Institute of Bioinformatics (SBI), Switzerland. He is an expert in the areas of plant molecular biology, plant tissue culture, medicinal plants and angiosperm taxonomy. He is serving as nodal coordinator for DNA barcoding program of GSBTM.

He has developed herbal medicine for the treatment of malaria during his doctoral thesis, named Calomalin and Akmal targeted for *Plasmodium falciparum* and *P. vivax* respectively. The formulas has successfully cleared toxicological, preclinical and clinical trials and now locally available in the market.



ZOOLOGY



Microbiology



The unseen
world holds
endless
possibilities.



ADHOC FACULTIES



Ms Parish Patel

Ph.D. Pursuing
Experience : 2
years
Publications : 2
Books: 2

Ms. Parish is dedicated to the fields of environmental microbiology and fermentation technology, demonstrating a commitment to continuous learning and expertise enhancement. In 2022, she achieved success by clearing the GSET (Gujarat State Eligibility Test) in Life Science, showcasing her academic proficiency.

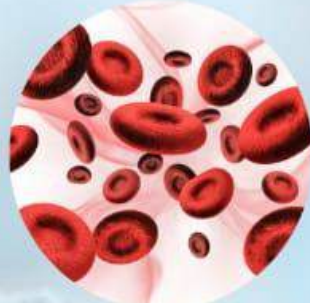
Previously, Ms. Parish served as an Adhoc Lecturer at DUIAS, Valsad, where she contributed to enriching students' learning experiences through her passion for education. Her enthusiasm for both research and teaching positions her as a valuable asset to the academic community, poised to make meaningful contributions in her field.



Ms. Anjali Desai

Ph.D. pursuing
GSET(2022)
Publications : 1

Ms. Anjali Desai conducted pioneering research on “SULPHATE REDUCING BACTERIA FROM WINOGRADSKY COLUMN’. Her academic journey has been marked by reflecting his potential as a promising researcher affiliated to VNSGU. she is pursuing a P.hD on “Halophilic Microbial Carotenoid Production”. Her research/teaching interest involves microbial secondary metabolites.



**P.
G.
D.
M.
L.
T.**

***Empowering healthcare
through technology.***



ADHOC FACULTIES



Dr. Deenali N. Patel

Ph.D.

(Microbiology)

Experience : 5 years

Publications : 3

Book Chapters: 1

GSET 2018

Dr. Deenali Patel is an experienced and detail-oriented microbiologist specialized in carrying out isolation of microorganisms from different source as well as performing cultivation independent procedures to know about unknown microbes. Having keen interest in metagenomics requires good facility to carry out my research work. Looking forward to a positive approach towards sustainable agriculture.

She served as an ad-hoc lecturer in SRKI Surat as well as in JNMP Science college, Surat for 5 years . She has received Gold Medal for securing first position in VNSGU for the degree in MSc Microbiology



Ms. Nidhi Dwivedi

M.Sc. (Microbiology),

PGDMLT

Experience : 3 years

Ms Nidhi Dwivedi is a Teaching Assistant with Medical Laboratory Technician skills in microbiology, chemistry and hematology testing needs. Alongside her academic experience , she has gained over two years of practical experience in a pathology laboratory. With over two years of valuable experience working in a pathology laboratory, she has gained practical expertise in diagnostic techniques and laboratory procedures. Expertise includes various subjects like Medical & Clinical Microbiology, Pathology, Hematology, Genetics. She has actively participated in numerous conferences, and Workshops organized at National levels.

COURSES WE OFFER

M.Sc. BOTANY

ELIGIBILITY
Bachelor in Science with
Botany or its equivalent or
allied subject

DURATION
2 Years (4 Semester)

ADMISSION PROCESS
Merit Based

Fees/ term	GR (13 Seat)	HP (07 Seat)	SF (38 Seat)
Male	7110	26110	32610
Female	4610	23610	32610

M.Sc. Botany

- ✓ In M.Sc. Botany, Department is Having Total 58 seats, which are further Bifurgated as 13 Grant in Aid seats, 7-Higher Payment Seats and 38 Self-Finance Seats.
- ✓ The whole Admission Process Will be exclusively Merit Based.

Eligibility criteria

- ✓ A Candidate who is a Graduate with Botany Subject or Allied Subject will be Eligible for the Admission Process.

Syllabus

- ✓ The whole M.Sc. Programme is Designed in the form of 04 semesters.

1st Semester : includes mainly Fundamental Microbiology, Mycology and plant Pathology, Phycology and Lichen as core papers.

- ✓ It offers one elective paper Organic Farming and Sustainable Agriculture & also offers one skills based elective paper Manures and Fertilizers.

2nd Semester : Covers The Broad Aspects of Bryophytes, Pteridophytes, Gymnosperms & Paleobotany, Plant Anatomy & Embryology, Biostatistics, Instrumentation and Techniques as core papers.

- ✓ At the same time, it also offers one elective paper Pharmacognosy & Photochemistry and also offers one skills based elective paper Apiculture.

3rd Semester : includes mainly Plant Physiology, Plant Ecology and Conservation as core papers.

- ✓ It offers special elective papers Phytomorphology OR Plant Tissue Culture OR Bioinformatics
- ✓ OR Plant Stress Biology.
- ✓ At the same time, it also offers one elective paper Phytogeography, Plant for Human Welfare and Plant Breeding.

- ✓ It also offers skill based elective paper Floriculture.

4th Semester : include one core paper Cell Biology, Genetics, Molecular Biology & Biochemistry & one Special elective paper Plant Taxonomy and Systematics OR Plant Breeding, Cytogenetic and DNA sequencing.

- ✓ It also offers skill based elective paper Bonsai and Terrace Gardening.
- ✓ In the fourth semester, Seminar based research paper presentation and a dissertation work (Botany practical XII) to be done by each student independently under the supervision of allotted faculty and submit a dissertation/thesis in partial fulfillment for the award of M.Sc. degree in Botany.

M.Sc. Botany

Teaching-learning - evaluation methods

- ✓ All the faculties actively participated in the teaching process. They deliver their subjective contents in lecture in English language (sometimes bilingual) via ppt mode.
- ✓ In addition to this, related videos, news articles, research papers and reference books will be provided to each student on a common platform like Google Classroom.
- ✓ By this way, the department is always trying to support the campaign “Digital India”.

For the evaluation process : regular class tests, seminars, assignment submission and internal examinations are conducted.

- ✓ Specially, for slow learners, we always prepare schedules for remedial classes to rectify their difficulties personally.

Skill That Students Will Learn :

- ✓ After M.Sc. at Department Student can Enhance The Quality of Field Work-Based Research.
- ✓ Students Who Actively Participated and Seriously involve in Their Dissertation Work Will be Definitely Benefitted in The Future Doctorate Degree or other Higher Education.
- ✓ After completing an M.Sc., students can pursue various competitive exams to advance their careers. Exams like the CSIR-UGC NET and GATE provide opportunities for Junior Research Fellowships, Ph.D. Programs, and roles in academia and research. Other exams, such as ICAR NET and ICMR JRF, cater to careers in agricultural research and biomedical sciences, opening doors to specialized research roles and academic positions. These exams validate expertise and offer access to research funding and prestigious appointments.
- ✓ Postgraduates with an M.Sc. In Botany have diverse career opportunities in research, academia, and industry. They can pursue Ph.D. Programs for university teaching and research roles, work in government and private research institutions on plant sciences and conservation, and teach biology at various educational levels. Additional career paths include environmental consultancy, botanical garden management, and roles in agriculture, pharmaceuticals, and biotechnology industries.

M. Sc. Zoology

ELIGIBILITY

Graduation in Science with Zoology or its equivalent or allied subject

DURATION

2 Years (4 Semester)

ADMISSION PROCESS

Merit Based

Fees/ term	GR (13 Seat)	HP (07 Seat)	SF (30 Seat)
Male	7110	26110	32610
Female	4610	23610	32610

M.Sc. Zoology

✓In **M.Sc. Zoology**, department having total 50 seats, which are further bifurcated as 13- grant in aid seats, 7-higher payment seats and 30 self-finance seats.

✓The whole admission process will be exclusively merit based.

Eligibility criteria

✓A candidate who is a graduate with zoology subject or allied subject will be eligible for the admission process.

Syllabus

✓The whole M.Sc. Programme is designed in the form of 4 semesters.

1st semester: includes mainly biology of non-chordates, important aspects of biochemistry, cell and molecular biology as core papers.

✓It offers 2 elective papers, which are Industrial fisheries and microbiome.

✓This semester also focuses on skill development of each student such as how to search research papers, how to cite them, referencing patterns, way of scientific presentations, data analysis etc.

✓2nd Semester: covers the broad aspects of vertebrates 'biology, animal physiology, Biotechnology and biostatistics.

✓At the same time, it also offers 2 elective papers 1. Advance marine biology 2. Applied microbiology.

✓It also contains 2 credit skill base course based on instrumentations.

✓3rd and 4th semesters: exclusively emphasis on cell biology and genetics, animal behaviour, histology and developmental biology, ecology etc.

✓Most importantly, here, 1 paper, in both the 3rd and 4th semesters, dissertation work is given to each student. This 1-year dissertation work will definitely ignite the spark for research in the zoology and other inter disciplinary / multidisciplinary areas. Each student can really able to connect the bookish content with the field work, with the nature, with the laboratory and of course with the life.

✓Apart from syllabus contents, students learn many life values via co-curricular activities carried out at department on regular basis.

Teaching - learning - evaluation methods

- ✓ All the faculties actively participated in the teaching process. They deliver their subjective contents in lecture in English language (sometimes bilingual) via ppt mode.
- ✓ Addition to this, related videos, news articles, research papers and reference books will be provided to each student on a common platform like Google Classroom.
- ✓ By this way, the department is always try to support the campaign “Digital India”.

For evaluation process, regular class tests, seminars, assignment submission and internal examinations are conducted.

- ✓ Specially, for **slow learners**, we always prepare schedule for **remedial classes** to rectify their difficulties personally.

Skills that students will learn after M.Sc. at department

- ✓ Student can enhance the quality of field work-based research like taxonomy, diversity and other related topics.
- ✓ Industrial fisheries help them to establish a small or medium level fisheries business.
- ✓ Students who actively participated and seriously involve in their dissertation work will be definitely benefitted in the future doctorate degree or other higher education.
- ✓ Students who passed M.Sc. with Zoology subject will be placed in many Govt., Semi Govt. & Private sectors like schools, Colleges, University departments, Laboratory, Zoos, nature Parks, Forest officials, officials at fisheries department, at Dairy poultry.

M. Sc. Microbiology

ELIGIBILITY

Graduation in Science with Microbiology or its equivalent or allied subject

DURATION

2 Years (4 Semester)

ADMISSION PROCESS

Merit Based

Fees/ term	GR (13 Seat)	HP (07 Seat)	SF (38 Seat)
Male	7110	26110	37110
Female	4610	23610	37110

M.Sc. Microbiology

- ✓ In **M.Sc. Microbiology**, Department is Having Total 58 seats, which are further Bifurgated as 13- Grant in Aid seats, 7-Higher Payment Seats and 38 Self-Finance Seats.
- ✓ The whole Admission Process Will be Exclusively Merit Based.

Eligibility criteria

- ✓ A Candidate who is a Graduate with Microbiology Subject or Allied Subject will be Eligible for the Admission Process.

Syllabus

- ✓ The whole M.Sc. Programme is Designed in the Form of 04 semesters.
- ✓ 1st semester: Includes mainly Microbial Diversity, Molecular biology& Genetic Engineering, Environmental Microbiology and Biofuels as core papers.
- ✓ It offers 2 elective papers, 1.Biophysical Techniques and Instruments 2. Cell Chemistry and Molecular Interactions. It also Offers various credit skill base course.
- ✓ 2nd Semester: Covers The Broad Aspects of Enzymology, Bioinformatics, Advanced in Immunology At the same time, it also offers 2 elective papers 1.Advanced in Pharmaceutical Microbiology 2. Ecology and Evolution. It also offers Various Credit Skill Base Course.
- ✓ 3rd semester: Includes Mainly Fermentation Technology, Industrial Microbiology, Agricultural Microbiology as core papers.
- ✓ It offers 2 elective papers, 1.Biostatistics,Research Methodology and Communication Skills 2.Research Methodology and Biostatistics. It also Offers various credit skill base course.
- ✓ 4th semester: Includes Mainly Seminar presentation, Review Presentation, Dissertation, Industrial Training/Internship Project, Start-Up Prototype Development Project.

M.Sc. Microbiology

Teaching - learning - evaluation methods

- ✓ All the Faculties Actively Participated in The Teaching Process. They Deliver their Subjective Contents in Lecture in English language (sometimes bilingual) via ppt mode.
- ✓ Addition to this, related videos, News Articles, Research Papers and Reference books will be provided to Each Student on a Common Platform like Google Classroom.
- ✓ By this way, The Department is Always Try to support The Campaign “Digital India”.

For Evaluation Process

- ✓ Regular Class Tests, Seminars, Assignment Submission and Internal Examinations are Conducted.
- ✓ Specially, For Slow Learners, we Always Prepare Schedule for Remedial classes to Rectify Their Difficulties Personally.

Skills That Students Will Learn After M.Sc. at Department

- ✓ Student can Enhance The Quality of Field Work-Based Research
- ✓ Industrial Training help them to establish a small or medium level business.
- ✓ Students Who Actively Participated and Seriously Involve in Their Dissertation Work Will be Definitely Benefitted in The Future Doctorate Degree or Other Higher Education.
- ✓ Students Who Passed M.Sc. with Microbiology Subject Will be Placed in Many Govt., Semi Govt. & Private Sectors like Schools, Colleges, University Departments, Laboratory.

P. G. D. M. L. T.

ELIGIBILITY

Graduation in Science with
BIOSCI./MICROBIO./MED.
TECH / ENV. SCI. or its
equivalent or allied subject.

DURATION

1 Years (2 Semester)

ADMISSION PROCESS

Merit Based

Fees/ term	GR	HP	SF (50 Seat)
Male	-	-	23110/-
Female	-	-	23110/-

Post Graduate Diploma in Medical Laboratory Technology (PGDMLT)

- ✓ Post Graduate Diploma in Medical Laboratory Technology (PGDMLT) program is designed to prepare students for a career in laboratory. This course provides in-depth understanding and on hand training of principles, concept and techniques of Clinical laboratory tests for disease diagnosis.
- ✓ In PGDMLT, department is having total 50 self-finance seats.
- ✓ The whole admission process will be exclusively merit based.

Eligibility criteria

- ✓ A candidate who is a graduate in Chemistry (Biology at F.Y. B.Sc. Level), Microbiology, Med. Tech, Env. Sci, Botany, Zoology, MLT, Life Science subject or allied subject will be eligible for the admission process.

Syllabus

- ✓ The whole PGDMLT Programme is designed in the form of 1 Year (2 Semester).
- ✓ The program covers the basics of preclinical subjects such as Biochemistry, Pathology, Microbiology, Immunology, Parasitology, Hematology, Blood banking. Laboratory management and Instrumentation and Advance techniques in diagnosis of diseases. Medical laboratory technologist do these tests by analyzing different specimens like, blood, body fluids, tissues, urine, stool, sputum, semen etc.

1st semester: 3 Core subjects include Medical Laboratory Technology Fundamentals, Immunology & Medical Microbiology.

- ✓ It offers 2 elective papers, which are Basics of Microbiology & Basics of Biochemistry from these students can select any one according to their interest.
- ✓ This semester also focuses on skill development of each student by enhancing their inner ability. It offers two Skill based elective course includes Instrumentation and techniques & MOOC/Swayam Program.

2nd Semester: It offers 3 Core subjects include Hematology, Clinical Pathology & Clinical Biochemistry.

- ✓ It offers 2 elective papers, which are Immuno-hematology and Histo-cytology & Parasitology.

- ✓ It offers two Skill based elective course includes Training in pathology laboratory & MOOC/Swayam Program.

Teaching - learning - evaluation methods

- ✓ All the faculties actively participated in the teaching process. They deliver their subjective contents in lecture in English language (sometimes bilingual) via ppt mode.
- ✓ Addition to this, related videos, news articles, research papers and reference books will be provided to each student on a common platform like Google Classroom.
- ✓ By this way, the department is always tried to support the campaign “Digital India”.

For evaluation process, regular class tests, seminars, assignment submission and internal examinations are conducted.

- ✓ Specially, for **slow learners**, we always prepare schedule for **remedial classes** to rectify their difficulties personally.

Skills that students will learn after PGDMLT at department

Perform all the diagnostic techniques.

- ✓ Use discretely the essential laboratory services.
- ✓ Manage all types of clinical diagnostic methods.
- ✓ Handle and operate the modern equipment's and instruments in laboratory test.
- ✓ Develop leadership qualities to function effectively as a leader in the laboratory environment.
- ✓ Render services to the laboratory set up and to communicate effectively with the doctors, patients and the hospital management.
- ✓ Development of skill and competency in data processing, reporting and maintenance of records & Laboratory investigations.
- ✓ Apply safety precautions, quality assurance, biomedical waste management, automation in in the laboratory.

Post Graduate Diploma in Toxicology

ELIGIBILITY
Graduation in any Biological
Science or Chemistry

DURATION
1 Years (2 Semester)

ADMISSION PROCESS
Merit Based

Fees/ term	GR	HP	SF (40 Seat)
Male	-	-	12,110/-
Female	-	-	12,110/-

Post Graduate Diploma in Toxicology

- ✓ South Gujarat region starting from Vapi to Bharuch is industrially well developed often referred to as golden corridor. It is dominated by Pharmaceutical industries, pesticide manufacturers, synthetic yarn production, textile processing houses and dying units. Surat in particular is dominated by textile industry and diamond cutting industry. Nearly 30 million meters of raw fabric and 25 million meters of processed fabric is produced in Surat daily.
- ✓ This entire industrial corridor has been identified as most polluted region in the country, Ministry of environment and Forestry has put a ban on expansion of existing and on new chemical industries in most of these GIDCs. As result of the governments policy many CEPTs have come up in the region, there are many private pollution analysis labs in this region and all the industries need technically qualified people to monitor their effluents, All the pharmaceutical companies need manpower to evaluate the toxicity of their products, there are several Contract Research Organizations in need of manpower trained in toxicology. This proposed diploma aims to produce the trained manpower to the needs of the industry in the field of toxicology.

Eligibility Criteria

- ✓ B.Sc. in any Biological Science or Chemistry Intake: Self-financed (SFI) : 40, The duration of the course shall be One-year (Evening Course). Academic year shall be divided into two semesters.

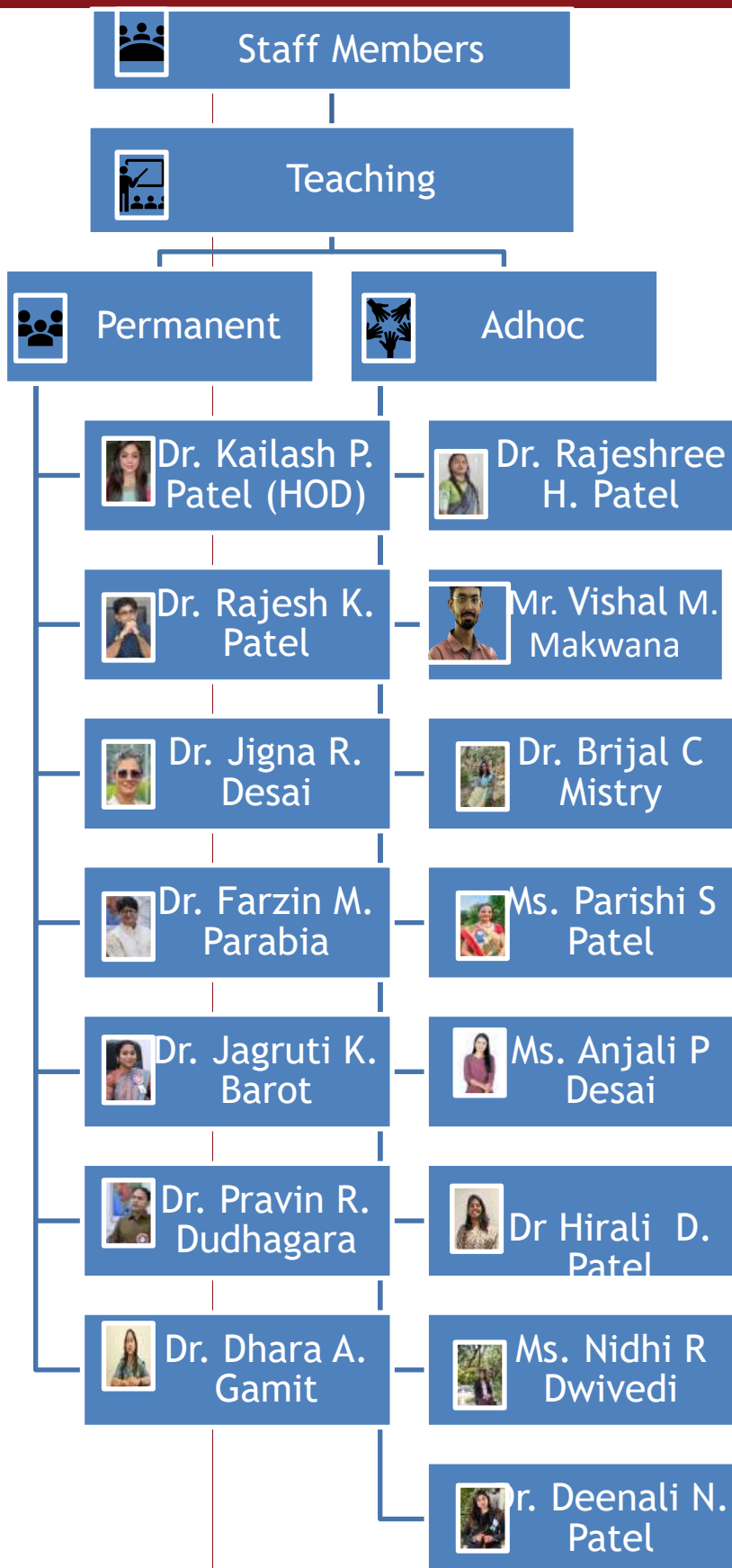
Admission Details

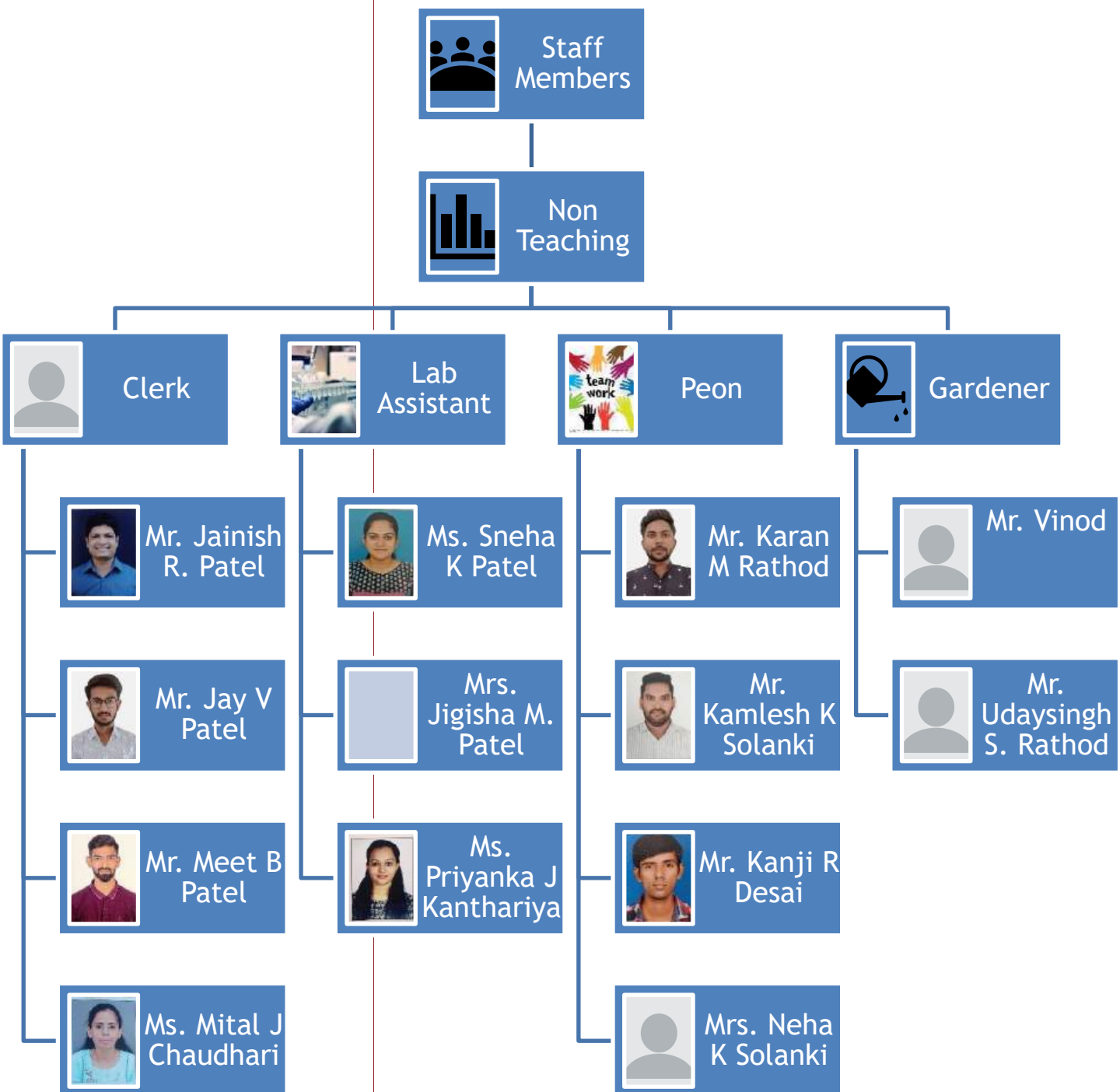
- ✓ Admission Based on merit/personal interview.
- ✓ Reservation Policy: As per rules of university.

Structural Organization of the Department

Sr. No.	Building	Infrastructure
1.	Old Building	Admin office, Hod office, Lab of Each faculty, 1 seminar Hall, 2 Classrooms, PGDMLT Laboratory, Microbiology Laboratory, Instrument room, Super computer & Bioinformatics Lab, Cabin of Each faculty, store room.
2.	New Building	2 Research Laboratory, Botany & Zoology Laboratory, RT PCR Lab, Sophisticated Instrument room, 2 Classrooms, Library, Girls room.
3.	BVBRC	BVBRC museum, Ethanobotany museum, Green house, pond, Botanical Garden, Vermi compost, Research activity Plot.

Human Resource





2015 onwards

- ✓ Research Paper - 500+
- ✓ Book Chapter - 14
- ✓ Research Guidance - 58
- ✓ Research Project - 14+
- ✓ Consultancy - 01
- ✓ UGCSAP- DRS-I- 2011 to 2016: Toxicity Evaluation of Textile Industry Effluent
- ✓ UGC-SAP-DRS-II-2018 to 2023: Environmental Toxicology and Ecogenomics DST-FIST-Level-I 2018 to 2023: Host- Microbiome Interaction
- ✓ Sectioned BSR Scholarships & SODH fellowship Awarded GUJCOST & GSBTM Sponsored state-of-the-art Bioinformatics & Supercomputer facility
- ✓ ICMR approved COVID-19 RTPCR Laboratory

FEATURES

- ❖ICT enabled Classrooms - 05| Research laboratory - 06
- ❖Computer- 30| Printers & Scanners- 07| HPC Workstations - 03| Supercomputer - 01
- ❖Teaching Lab. - 06| Computer Lab. - 01| Central Instrument Lab. - 01|Microscopy Lab. - 01| Plant Tissue Culture Lab.-01 |Animal Cell Culture Lab.- 01|
- ❖Shri Bapalal Vaidya Botanical Research Centre- 01|
- ❖Seminar Hall-01| Auditorium-01|
- ❖Botanical Garden- 01| Green House- 01| Aquarium -01|
- ❖NGS, GCMS, HPLC, RTPCR, HPTLC, RTPCR|
- ❖Microplate Reader|
- ❖TYPE-I Water Purification system|
- ❖Type IIA Biosafety

FACILITIES



Weighing Balance

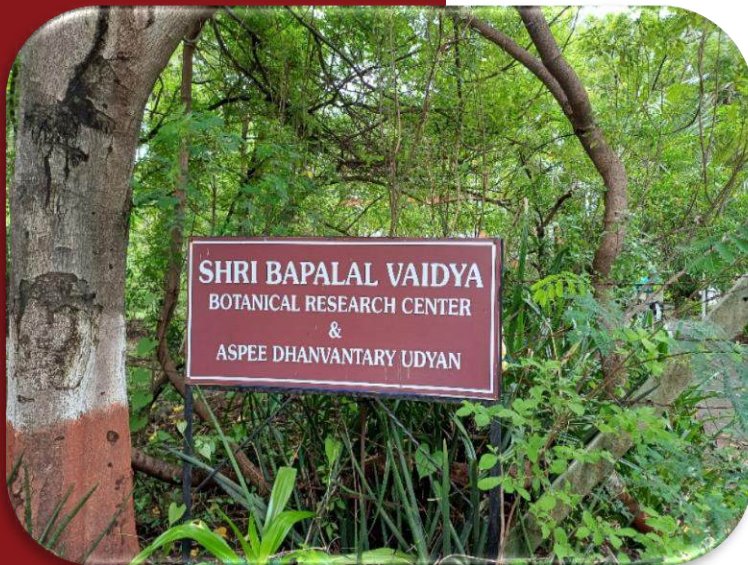
A weighing balance is a laboratory instrument used to measure the mass or weight of an object with high precision. It typically consists of a platform or pan where the object is placed and a mechanism that measures the force exerted by the object due to gravity. Weighing balances are essential tools in scientific research, quality control, and manufacturing, providing accurate measurements for various applications.

Rotary Evaporator



A rotary evaporator is a laboratory instrument used for distillation and solvent removal under vacuum conditions. It consists of a heatable water or oil bath, a rotating flask, a condenser, and a vacuum pump. The sample is placed in the rotating flask, and under reduced pressure and controlled heating, the solvent evaporates and is condensed by the condenser. The condensed solvent is collected in a separate flask, leaving behind the concentrated sample. Rotary evaporators are commonly used in chemistry labs for applications such as concentration of solutions, purification of compounds, and solvent recovery. They are particularly useful for handling volatile solvents and heat-sensitive materials.

Shri Bapalal Vaidya Botanical Research Centre





Professor Minoo Hiraji Parabia
M.Sc. , Ph.D, D.Litt.(Ayu),
F.E.S., F.I.A.T.

Former Professor and Head of Department of
Biosciences
Founder of Shree Bapalal Vaidhya Botanical
Research Centre and ASPEE Dhanvantari Udyan.

The Department was conceived under the UGC award in the year 1977. Dr. Raghothaman, Dr. U. M. Raval, Dr. Minoo Parabia (I have jointed in October 1977) had joined initially as the lecturer. Dr. Kiran Desai (joined as reader in December 1977) and Prof. B. S. Vaidhya (jointed as Professor on 1st Jan 1978; it was Sunday and university has specially remained open to protect beak in job) joined slightly later. The first batch of students was taken in the year 1978. We followed the vision of our leader and Head Prof. B. S. Vaidhya. Unfortunately, we lost Dr. Kiran M. Desai after his fatal illness. Very pleasant personality and the founder of many research projects in Zoology. Dr. Upendra M. Raval (our Muni Raval) resigned to establish his enterprise.

Professor Vaidhya was a leading Algologist and a man of substance, who gave the shape to the department and guided through the initial formative years. He trained us in the administration and the management of the academic Institution. Professor Vaidhya carried with him the legacy of his mentor, Dr. Vikram Sarabhai, with whom he shared the dream of establishing the Biological Research Laboratory in line of Physical research laboratory (PRL), at Ahmedabad. With the sad Untimely demise of Dr. Vikram the dream remained unfulfilled.

But the spark of the idea did kindle in his heart and therefore, when the idea of establishing Shri Bapalal Vaidhya Botanical Research Centre (BVBRC) was first floated by the leaders of Akhil Bharatiya Vanaushadhi AbhyasMandal (ABVAM), Shree V. R. Mehta, Shri Chunibhai Bhatt, Professor R. D. Adatia, Dr. Prafullchandra B. Vaidya and myself, he whole heartedly welcomed the idea and supported me in all respects. Unfortunately, we lost our beloved mentor Professor Vaidhya in 1989, before the dream materialised.

The Department was then led by Professor Dr. Pankaj K. Hiradhar. Professor Hiradhar had always been a great support. Very kind-hearted person with sophisticated demeanour, with whom I learned many things of life. He absorbed our faults, and guided us further.

The other colleagues in the sister branches, Dr. Pankaj Gadhia, Dr. Yogesh Thanki, Dr. Piyush Desai, Dr. Kewal Krishan, Dr. S. K. Tank and Dr. M. N. Reddy always stood by us. The teaching and the research were the collaborative efforts. Being together solved many problems. Some other colleagues joined us for a short period and went ahead in their career, elsewhere.

Inception and the establishment of BVBRC was a journey through a rough road. All at ABVAM and my friends Professor Yogesh Thanki and Dr. M.N. Reddy and Dr. Krishnamurthy (presently at Uka Tarsadia University) stood by me and helped me out through difficult times.

We were lucky to receive the great academic inheritance of personal libraries of Professor G. L. Shah (my research guide at S. P. University, Vallabh Vidyanagar), Professor J. J. Shah (former professor at S. P. University and Ph. D. Guide of Dr.Thanki), Dr. Vishnu Mittre of Birbal Sahni Paleobotanical Research Institute, Lucknow and Shree Lallubhai M. Patel of ASPEE, Foundation, Tansa.

The donations flowed through the society and finally the BVBRC was inaugurated in the year 1994. Throughout the tenure, the Vice Chancellor Sir (Professor B.A. Parikh) and the University administration afforded us the whole-hearted support.

Dr.Kailashben Patel, joined us as an assistant professor. Since then she had been the ardent supporter of all the academic and the extra-curricular activities of the department. She is the present HOD.

The centre soon became a place of academic interest as schools, colleges interested in plants and farmers, AYUSH practitioners kept visiting to see the plants as well as receive guidance in plant related matters. This centre is by the people and for the people. Word people include all of us, teachers, students and the general public who strive to be with nature.

I humbly request you all to carry this dream further and be the foundation stone of this developing country, our beloved Bharat.

જયભારત, જયહિંદ.

Biosketch: Prof. Minoo Hiraji Parabia Founder of BVBRC

Dr. Minoo Hiraji Parabia Born 1948, Retired as Professor & Head, Dean of Science Faculty, after serving 37 years at Dept. of Biosciences, Veer Narmad South Gujarat University,.



Recipient of Doctor of letters: Honoris Causa from Gujarat Ayurveda University, Jamnagar by Governor of Gujarat Acharya Devvrat on 25.04.2023.

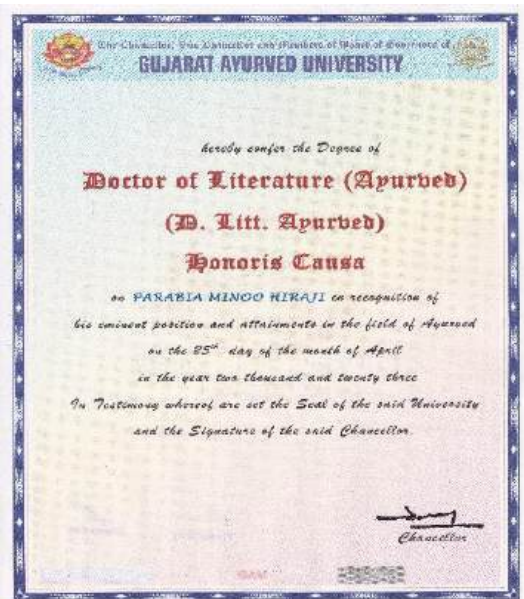
Learnt Fellowship:

F.E.S. - Fellow of Ethnobotanical Society

F.I.A.T. - Fellow of Indian Angiosperm Taxonomy

Received Life Time Achievement Award from SRISTI, Ahmedabad.

Established Shri Bapalal Vaidya Botanical Research Centre in 1994, solely devoted to the studies in medicinal plants on the campus of Veer Narmad South Gujarat University, Surat.





Dr. Minoo H. Parabia
Botanist
Gujarat

SRISTI SAMMAN
Biodiversity

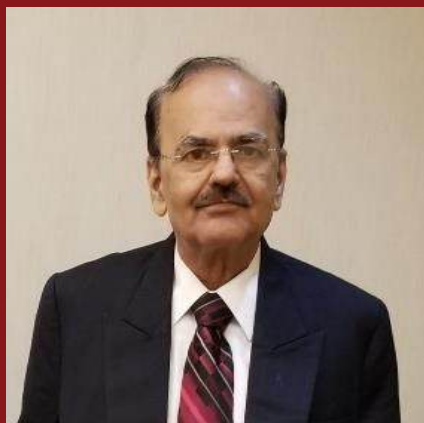
Dr. Minoo H. Parabia, a renowned botanist from Gujarat, blends deep-rooted family traditions with modern botanical science. With a lifelong dedication to plant sciences and natural remedies, he innovatively bridges the gap between traditional Ayurveda and contemporary medicine. His humble approach, despite the digital age's distractions, has made him a respected figure in Gujarat's botanical community. Dr. Parabia's passion for nature's healing powers continues his family's ancestral legacy, making significant strides in natural medicine.



HAPPENING ON
25 December 2023
5.00 PM to 7.00 PM

Our Email
info@sristi.org
More Info
Sristi.org





**Dr. Yogeshchandra J.
Thanki**

**Former Professor -
Botany**

**Area of Specialization :
Plant Anatomy**

Prof. Y. J. Thanki : Senior Colleague and Co-worker during Establishment of BVBR

Large number of plants are used medicinally. They are a vital source of both curative and preventive medical therapeutic preparations for man. They are also used as the source of bioactive compounds. Treatment with herbal medicines also hold a strong ground because these plants are considered to be safe and have no or minimal side effects. Ayurvedic herbs are known to treat the disease from the root and thus aid in keeping people healthy and fit in long run.

To fulfill the requirement of better herbal drugs, a research center BVBR was established by Prof. M.H. Parabia of Department of Biosciences of VNSG University. I was his colleague and the partner in all the aspects of development of this center. We approached to different, industrialists, businessmen, politicians, social workers etc., to get donation for the development of BVBR. The main donor was late Shri Lallubhai Patel (Owner of ASPEE) who donated a large amount (fifteen lakh) as well as instruments and furniture for lab, which I and Prof. Parabia brought in a fully loaded truck from Mumbai. We received lots of research literature and books from Prof. J.J. Shah and Late Prof. G.L. Shah which made our library richer.

During my association with BVBR, I investigated anatomy of medicinal plants and which was useful in identification of medicinal plants and to discover adulteration in herbal drugs. Along with this I have also studied the histochemistry of medicinal plants. The localization of different substances, like Alkaloids, Lipids, Polysaccharides, Suberin etc., were investigated to confirm the utility of those herbs as drugs. Along with research, BVBR also organized different research workshops, seminars, conferences, etc., useful to students, botanists and the society.

Because of the help, support and guidance of head of the department Ms. Prof. K. P. Patel and hard work, perseverance and expertise of Dr. Farzin Parabia and his colleagues BVBR will flourish faster.

My best wishes to Prof. Ms. K.P. Patel, Dr. Farzin Parabia and all staff members and students of Biosciences department.



Prof. M. N. Reddy: Former Faculty In-Charge & Founder of Prof. Minoo Parabia Endowment Fund

Dr. M. N. Reddy started with this department as a Master's student. First NET qualified candidate of this Department. Presently he is abroad. His message is awaited. Duty bound, this brief introduction is added by his former colleague Prof. M.H. Parabia.

He did his doctorate under Professor, B. S. Vaidhya. He joined this department as laboratory assistant and later he climbed the ladder of progress.

Excellent teacher and hardworking colleague. It is said that "Busy person always finds time".

Dr. Reddy was the glaring example. He will never procrastinate any job, under the pretext of no time.

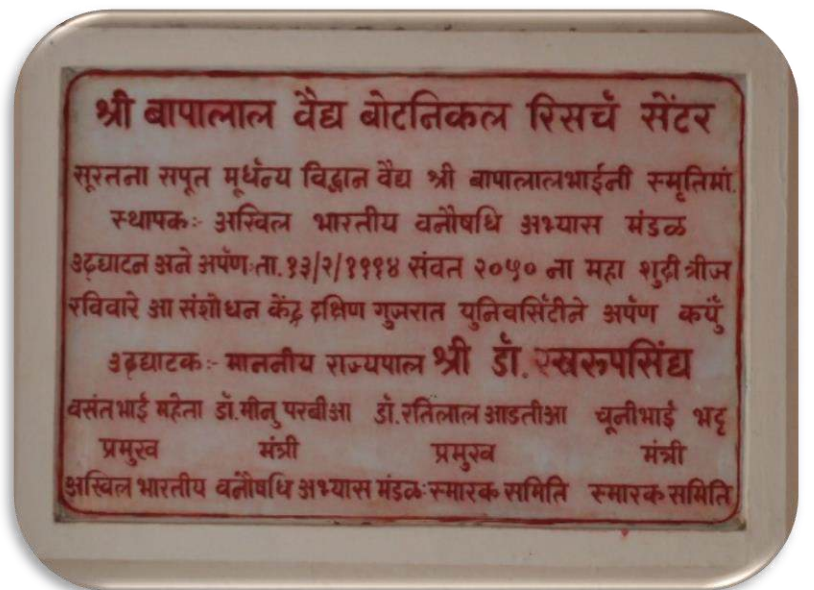
Whoever, was the head, Dr. Reddy was the sincerest support in running the department. As I remember, amongst us, he was the first to learn computers, when they started appearing on the horizons of this university. I learnt its operations from him. He made my first e-mail id.

Very thoughtful researcher and visionary.

I wish him a happy and healthy life.

Shri Bapalal Vaidya Botanical Research Centre

Established in 1994 in the memory of Late Shree Bapalal Vaidya. Shri Bapalal Vaidya was reconvened Ayurveda practitioner in his time. He was freedom fighter and he has established Swami Atmanad Saraswati Ayurvedic College at Surat. The credit goes to Swami Atmanad, who brought Shri Bapalal Vaidya to Surat and the rest of his life dedicated in Surat. Surat has Shri Bapalal Vaidya Khacho in Gopipura, where he was serving his clinic. The BVBRC was established under the Department of Biosciences and governed by Veer Narmad South Gujarat University. The entire center was established from the donations received from the society. The center is engaged in the academic and research activities in the area of Botany and Medicinal Plants. BVBRC is having the facility of Cell Culture & Plant Tissue Culture with botanical garden, net-poly house, animal house (additional experimental room) and herbarium. The center is still running and maintained from the donations and the interest gained. BVBRC has “Prof. Minoo Parabia Endowment Fund”, assigning two Gold Medals and financial support in research and academics to the students.





Who is Shri Bapalal Vaidya?

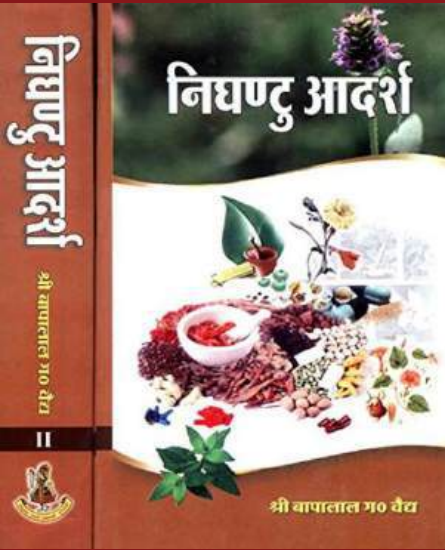
The original surname of Shri Bapalal Gardbad-das Vaidya was “Shah”. He was born on 17th September, 1896 in Sansoli village of Panchmahaldistrict. He lived for 78 years and passed away on 10thDecember, 1983. Recently we have celebrated 125th birth anniversary of him. He has written more than thirty books. His most renowned book is *Nighantu Aadharsh*, written in two volumes, covered information of 331 medicinal plants with description, uses, reference in Ayurveda with scientific name, and common names. The book has multiple index like disease-basedindex along with common and scientific name-basedindex. He has receivedRanjitram Gold Medal from Gujarat Sahitya Parishad in 1965. The postal stamp has been released with his picture.

He has learned Ayurveda from Raj Vaidya Amrutlal Pattani living in Zadeshwar village near Bharuch and learned botany from well-known botanist of Porbandar district Shashtri Shri Jaykrushna Indrajit Thakar. In 1932 he played significant role in freedom fighting and went to prison in Visapur jail. He had treated other freedom fighter prisoners with kitchen remedies and plants growing in surrounding areas. He had started practicing Ayurveda in village Hansot.

His brilliance was noticed by Swami Shri Atmanand Saraswati and he has invited him to Surat. ShriBapalal Vaidya came to Surat and established Shri O.H. Nazar Ayurved College and Hospital. He had served from 1946 to 1965 as Principal of the college. He has also established Shree Swami Atmanand Saraswati Ayurvedic Sahakari Pharmacy Ltd. in Surat. The place where he was operating his OPD is still known as Bapalal Street (*Bapalalno Khacho*) in the area of Gopipura, Surat. He was so renowned that the post card with the address of “Bapalal Vaidya, Surat” would reach to his place.

He always says Vaidy’s (who practice medicine) guru is Grocer (who sold medicines) and Grocer’s guru is tribal (who collect medicine from forest). Means scientific identification is missing during the application of herbal medicines. He has established Akhil Bhartiya Vanoushdhi Abhyas Mandal to provide platform for Vaidyasto study scientific identification of plants. The same institution was pioneer during the establishment of Shri Bapalal Vaidya Botanical Research Centre.

Contribution of Shri Bapalal G. Vaidya



Vaidya Shri Bapalal Garbaddas Shah, the renowned botanist and scholar of Ayurveda, became synonymous with Ayurveda, and his last name was abandoned somewhere in antiquity and become known as Bapalal Vaidya. He received his training in guru *parampara*. He started his career as an Ayurved practitioner in Hansot near Surat. He came to Surat in response of invitation by Swami Atmanand Saraswati. During his time he wrote about 44 books starting with Din charya. He received his training in plants identification from the great Botanist Shri JaikrishnaIndraji of Kachchh.

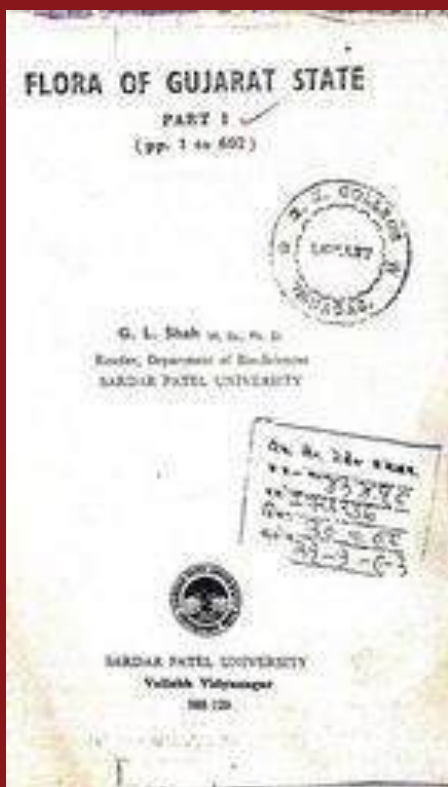
In appreciation of his expertise in plant identification he was appointed a chairman of federal committee on “**Controversial Medicinal Plants.**” His magnum opus is “**Nighantu Adarsh**” a two-volume work depicting the plants used in Ayurveda. Nighantu is an English word for Materia Medica. The book started with very elaborate preface extending in to about 130 pages. Here he is tracing the world history of herbalists-Botanists and herbalism- use of plants as medicine. He has emphasized also on the Indian history of herbal science. The preface cum introduction explaining the Ayurvedic terms in its modern percept. There is a special mention and lengthy discussion on the controversial identity of some of the medicinal plants like Some Valli, Gandhir, Tamarind, Astavarga etc. The actual Nighantu, the materia medica proper runs through two magnificent volumes called Purvardh and Uttarardh. The materials (plants) are arranged according to the classification system of Bentham & Hooker, presently in use in India. First volume comprises families from Ranunculaceae to Apocynaceae and the second volume from Asclepidaceae to Gramineae including pteridophytes, Gymnosperms and some of the thallophytes too. Perhaps this is the first work of Indian Origin after Jaikrishna Indraji where the modern system of classification and Latin nomenclature is adopted with great care. Utmost care is taken to provide the correct identification of the plant, wherever controversy exists or confusion persists he has mentioned them all along with his own opinion duly supported with evidences. Each family/natural order is botanically described with the mention of some of the well-known plants - not existing in Ayurvedic literature, but useful - in a brief note. Sanskrit names with Philologic note on their origin are given for each and every plant. Each plant species bears its brief morphological description, geographical origin and distribution, useful part of the plant and recommended dose. A thorough review comprising all the available literature on the particular species is given meticulously in Sanskrit as well as its Gujarati translation.

References to modern literature and modern works concerning the phytochemistry and clinical research are amazing. He has strived at his best to bring about logical conclusion on deciding the plants of controversial identity. Names of other Indian languages of the plant are also appended. The compounded medicines of Ayurvedic origin where each plant is used are mentioned as Yog / Kalpa along with the discussion on each species. In addition to contemporary Ayurvedic medicines, he has included plants used in Unani and Allopathic systems as well. He has been much ahead of his time and so open minded that he has mentioned the shortcomings and limitations too along with the importance of ancient system. The work is appended with exhaustive indices of common - vernacular names, Gujarati names, Sanskrit names and also Latin names. The book is the great contribution in the field of Dravyaguna Shastra for the students of Ayurveda as well as an encyclopaedic guide to the students of Botany who wish to carryout modern research in the field of usefulness of plants as medicine.

List of books written by Shri Bapalal Vaidya

1. નિઘંટુ આદર્શ (ગુજરાતી) ભાગ 1 - 2	17. આયર્વેદવિજ્ઞાનિક દ્રષ્ટિ
2. નિઘંટુ આદર્શ (હિન્દી)	18. આપણો ખોરાક
3. દિનચર્યા	19. આરોગ્ય પાઠાવલી
4. ઘરગથ્થું વૈદક	20. ચરકનો સ્વાધ્યાય (ભાગ 1-2)
5. વદ્ધૃત્રયીની વનસ્પતિઓ	21. ઘરગથ્થું દવાઓ
6. અભિનવ કામશાસ્ત્ર	22. સ્વસ્થવૃત્ત
7. વૈદ્યકીય કાયદાશાસ્ત્ર	23. અષ્ટાંગ હૃદયનુંગુજરાતી ભાષાંતર
8. વનસ્પતિ શાસ્ત્રી જયકૃષ્ણજીઇનજીનું જીવનચરિત્ર	24. સો સુંદર વનસ્પતિઓ
9. ગુજરાતની વનસ્પતિઓ	25. મધપ્રમેહ
10. ઉદ્ધિજ્જ શાસ્ત્ર - વનસ્પતિવર્ગીકરણ	26. દ્રવ્યગુણ શાસ્ત્ર
11. ભારતીય રસશાસ્ત્ર	27. નસ્ય ચિકિત્સા
12. દમ - અસ્થમા	28. વાડીવાડીના ઓસડીયા
13. સંસ્કૃત સાહિત્યમાં વનસ્પતિઓ	29. ઘરઘરના ઓસડીયા
14. ખોરાકના તિત્વો	30. વનવનના ઓસડીયા
15. આયર્વેદ વ્યાખ્યાનમાળા	31. Some Controversial Drugs in Indian Medicine
16. આયર્વેદ વિહંગાવલોકન	

How Minoo Parabia comes in contact with Shri Bapalal Vaidya?



Shri Bapalal Vaidya has arranged workshop on identification of medicinal plants and invited renowned taxonomist who has written Flora of Gujarat, Dr. G.L. Shah from the Department of Biosciences, Sardar Patel University. Destiny was arranging meeting of Minoo Parabia with Bapalal Vaidya. Dr. G.L. Shah was busy and during those time Minoo Parabia was doing his Ph.D. under him. He referred him to Shri Bapalal Vaidya and this was the situation when Minoobhai came in contact with him and become his sincere disciple.

Inauguration

Shri Bapalal Vaidya Botanical Research Centre was inaugurated on 13th February, 1994 on the day of Sunday by Honourable Rajyapal Shri (Dr.) Sarup Singhin the auspicious presence of the members of Akhil Bhartiya Vanoushdhi Abhyas Mandal and Smark Smitiare Vaidya Shri Praful Vaidy (Son of Shir Bapalal Vaidya), Dr. Minoo Parabia himself, President Dr. Ratilal Adatiya and Managing Trustee Shri Chunibhai Bhatt.



Honourable Rajyapal Shri (Dr.) Sarup Singhin and VC Dr. B.A. Parikh

Foundation & Building Components of BVBC



Minoobhai has given free medical advice to people throughout his life. During day time he worked in the university and in evening people are waiting in line at his home for medical advice. His service to the society still continues. All his dedication towards Shri Bapalal Vaidya lead to the establishment of this centre at the university campus as an extension of Department of Biosciences. The donations initially channelized by Dr. Minoo Parabia was accepted in the account of Akhil Bhartiya Vanoushdhi Abhyas Mandal to construct the building on the land donated by Veer Narmad Sough Gujarat University.

His friend and colleague Dr. (Prof.) Yogesh Thanki have always been with him during the applications of the donations. His own Ph.D. student and later on becomes his subordinate Dr. (Prof.) M.N. Reddy have worked by rubbing shoulder to shoulder to collect the donations and establishment of the centre. After the retirement of Prof. Minoo H. Parabia, he will become the faculty in-charge of the centre and retired on 15th June, 2022 as Head of the Department of Biosciences.

The first donation of rupees thirty-five thousand was given by Vaidya Shri Narsihbhai Bhootand foundation of the building was initiated in 1992. The building was inaugurated on 13th February, 1994 on the day of Sunday by Honourable Rajyapal Shri (Dr.) Sarup Singhin the auspicious presence of the members of Akhil Bhartiya Vanoushdhi Abhyas Mandal and SmarkSmitiare Vaidya Shri Praful Vaidy (Son of Shir Bapalal Vaidya), Dr. Minoo Parabia himself, President Dr. Ratilal Adatiya and Managing Trustee Shri Chunibhai Bhatt.

The building contains Shri Shantilal Shah Museum Hall, Shri Harichand Maheta Library Hall, Medicinal Plants Research Laboratories (two) to the name of ZANDU and ASPHA, the donors of BVBC. Shri Shantilal Shah Memorial Trust, Mumbai donated 1 lakh, ZANDU donated 2 lakhs, ASPHA donated 1 lakh, Harichand Mehta Public Charitable Trust, Kolhapur donated Rs. 50,000/-. The centre is having botanical garden named ASPEE Dhanvantari Udhyan. Donor Late Shree Lallubhai Patel owner of ASPEE (American Spring & Pressing Works Pvt. Ltd.) has given donation of 15 Lakhs from ASPEE Charitable Trust. This contribution was highest among the donations received during the construction of BVBC. After the retirement of Prof. M.N. Reddy who has served his entire life to the Department of Biosciences and retired as Head, who were also in-charge of BVBC and founded of Prof. Minoo Parabia Enduement Fund, we have collected donation of Rs. 2,96,002/- to develop Prof. M. N. Reddy Phytochemistry & Nanotechnology Laboratory after his name at BVBC.

Building Components			
Inception	:	13 th February, 1994	
Funding	:	Created by collecting donations, consultancies and the project grants	
Donations	:	Approximately Rs. 25 lacs at the time of building foundation	
Grants	:	Rs.7.15 lacs (Ministry of Environment and Forest, Govt. of India) for Net-Poly House, Animal House and Fencing.	
Building components			
No.	Name of the Room	Purpose	Floor
1	Shri Shantilal Shah Museum Hall	Museum & Herbarium	Ground Floor
2	Shri HarichandMaheta Library Hall	Study Room	Ground Floor
3	ZANDU Medicinal Plants Research Laboratory	Research Lab	First Floor
4	ASPHA Medicinal Plants Research Laboratory	Research Lab	First Floor
5	Dr. M.N. Reddy Phytochemistry & Nanotechnology Lab	Research Lab	Second Floor

91

Incumbency

Faculty In-Charge of Shri Bapalal Vaidya Botanical Research Centre

Sr. No.	Name	From	To	Contribution
1.	Prof. Minoo H. Parabia	1994	2010	Founder & Faculty in-charge
2.	Prof. M.N Reddy	2010	2022	Co-Founder & Faculty in-charge
3.	Dr.Farzin M. Parabia	2022	Till date	Faculty in-charge

Convener of Prof. Minoo H. Parabia Endowment Fund

Sr. No.	Name	From	To	Contribution
1.	Prof. M.N Reddy	2012	2022	Founder & Convener
2.	Dr.Farzin M. Parabia	2022	Till date	Convener

Administrative Organization

Prof. (Dr.) Kailash P. Patel

Head

Department of Biosciences

Dr. Farzin M. Parabia

Associate Professor

BVBRC Faculty In-Charge & Convenor- Prof. Minoo Parabia Endowment Fund

Advisory Committee Members

Dr. Minoo Hiraji Parabia

Former Professor & Head

Appointed as Life Time Advisor

Dr. M. N. Reddy

Former Professor & Head

Department of Biosciences

Vaidya Anand P Vaidya

Donor, BVBRC

Dr. Yagnesh Vyas (Ret. Professor)

Dravyaguna Department, Shri O.H. NazarAyurved College, Surat

Prof. (Dr.) Rajesh Patel

Department of Biosciences, VNSGU

Dr. Sanjay Pandya

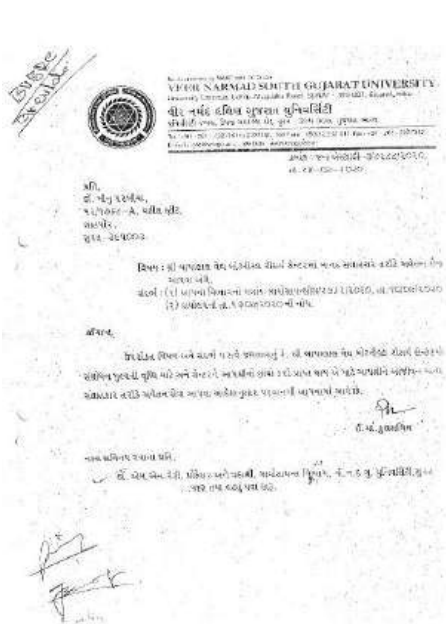
Associate Professor, Navyug Science College, Surat

Dr. Arvind Saklani

Vice President, Agri Biotechnology, Sami Labs, Bangalore

Mr. Rajendra Chokhawalla

Ex. President, Chamber of Commerce, Surat



Research Projects

Amount	Funding Agency
Rs. 04.01 lacs	GEER Foundation
Rs. 07.15 lacs	Ministry of Environment and Forest
Rs. 04.10 lacs	Gujarat Ecological Society
Rs. 03.10 lacs	Department of Ocean Development, Govt. of India
Rs. 65.00 lacs	Department of Science and Technology, Govt. of India
Rs. 09.80 lacs	Gujarat State Biotechnology Mission (GSBTM)
Rs. 32.00 lacs	Post Graduate Diploma in Medicinal and Aromatic Plants (UGC)
Rs. 12.30 lacs	National Medicinal Plant Board (NMPB), Ministry of AYUSH
Rs. 07.10 lacs	DBT-GSBTM Sponsored Skill Vigyan Program

Consultancies

- ❖ Gujarat Environmental and Ecological Research Foundation, Gandhinagar(GEER)
- ❖ Citurgia Biochemicals, Surat
- ❖ National Thermal Power Corporation (NTPC), Surat
- ❖ KRIBHCO, Surat
- ❖ Manav Vikas Sansthan, Surat
- ❖ India Gelatine Ltd. Vapi

Features

- **Building with 3700 ft.sq. of built up area and botanical garden**
- **Research laboratories**
- **Plant Tissue culture**
- **Animal Cell Culture**
- **Herbarium**
- **Museum**
- **Sectional Library**
- **Seminar Hall**
- **Net & Poly House**
- **Aquarium House**
- **Vermicompost**
- **Garden Pond**
- **Nursery**
- **Botanical Garden : ASPEE DHANVANTARI UDYAN (about 250 taxa)**
- **Herbarium : Approximately 2500 specimens**
- **Seed herbarium : Approximately 700 specimens**
- **Museum : Approximately 300 exhibits**

Features

Building with 3700 ft.sq. of built-up area and botanical garden

- **Botanical Garden** : ASPEE DHANVANTARI UDYAN(about 250 taxa)
- **Herbarium** : Approximately 2500 specimens
- **Seed herbarium** : Approximately 700 specimens
- **Museum** : Approximately 300 exhibits



Herbarium and Museum



Donations Received at BVBRC

Donation received at BVBRC is around Rs.97,75,457/- including Prof.Minoo Parabia Endowment Fund and the donation collected after the retirement of Prof. M.N Reddy to develop Prof.M.N Reddy's Phytochemistry and Nanotechnology Laboratory

Sr. No	Name of Donors	Rs.
1.	In the Memory19. of Late Shri Bapalal Vaidya By His Family Members & Anand Vaidya	30,50000
2.	In the Memory of Late Shri PestonjiEruchshah Contractor and Miss DoliEruchshah Contractor byMinooParabia, YazdiKaranjiaand Dara Mistry	23,50000
3.	ASPEE Charitable Trust	1500000
4.	Zandu Pharmaceutical Works Ltd. Bombay	200000
5.	Shri Swami AtmanandSaraswati Ayurvedic Sahakari Pharmacy Ltd.	100000
6.	Shantilal Shah Memorial Trust,Bombay	100000
7.	SNI Consultants LLP	51000
8	Dr.Jigna Desai	51000
9.	Arihant Lubricants Pvt Ltd	51000
10.	Shri DushyantbhaiAnjaria	51000
11.	Harichand Mehta Public Charitable Trust,Kolhapur	50000
12.	The Surat District Co.OP. Bank Ltd.	50000
13.	Citurgia Biochemicals	50000
14.	Shri AswinbhaiVasavda	50000
15.	Shri NarsibhaiP.Bhaoot	35000
16.	N T P C,Surat	30000
17.	K.G.Mavani M.L.A Fund	27000

18.	Dr. Minoo And Dinaz Parabia	25000
19.	Dr.Smita Pathak	25000
20.	SuruchiTrust,Surat	25000
21.	Khedut Sahakari Khand Udyog Mandli.Ltd.	25000
22.	KRIBHCO	25000
23.	Dr. A.P. Singh	21000
24.	The Surat Peoples Co.Op. Bank	15111
25.	The Gujarat Institute of Civil Engineers & Architects	15000
26.	Mr.&Mrs. Gazadar Charitable Trust,Bombay	15000
27.	Dr.Dhirubhai Desai(In Kinds)	12000
28.	Ms. Rupal K. Pandya	11000
29.	Honest Trading Co.Op.Pvt Ltd., Bilimora	10001
30.	Surat District Co.Op.Spinning Mills Ltd.	10001
31.	Dr. Rajesh K. Patel	10000
32.	Himson Textile Engg.Inds.Ltd., Surat	10000
33.	Gram SevaSamaj,Vyara	10000
34.	Manjulaben M.	10000
35.	Dr. Chintan B. Bhagat	10000
36.	Shri A.S.Maniar	6000
37.	Mr.Cyrus Cooper(Uk)	5840
38.	Shri N.S.Maniar	5000
39.	Dr.A.S.Gosalia	5000
40.	Shri Janardan Trivedi	5000
41.	DipchandGardi Charitable Trust	5000
42.	Dr.P.K.Desai,Span Diagnostic	5000
43.	Rachna Fabrics Smt.SuhasbenJetendrabhai Shah	5000
44.	Dr. B. Suryanarayana	5000
45.	Shri ArvindbhaiLodhawala	5000
46.	Kunal Synthetics	5000
47.	B.K.G.K. Mevavala	5000

48.	Shri Ramkrishna Mandal	5000
49.	Dr. Rajendra Naik	5001
50.	Dr. Farzin And Roohana Parabia	5001
51.	Dr. Falguni Sheth	5000
52.	Dr. Ghanshyam D. Lathiya	5000
53.	Dr.Jagruti Rana	5000
54.	Mr. BhuvneshAsija	5000
55.	Alpana Shukla	5000
56.	Rakesh B. Dave	2500
57.	Dr. Falguni Bharatbhai Panchal	2000
58.	Ms. FarishteBharucha	2000
59..	Dr. Vijay Shastri	1001
60.	Total:	Rs. 81,89,456/-

Donations received at Prof. Minoo Parabia Endowment Fund		
No.	Name of Donors	Rs.
1.	Hari Om Ashram, Surat	1050000
2.	Parishram Welfare Trust,Vapi	100000
3.	Dr. Kailash & Priteshkumar A Patel	51000
4.	Temuras Ardshir Pandal	51000
5.	Mr.Thakorbhai Patel,Udavada	25000
6.	Span Diagnostics Ltd.	25000
7.	Pradipkumar Keshavlal Desai &Lataben Pradipkumar Desai	25000
8.	The Adarsh Sahkari Ghar Bandhnari Mandali Limited	63000
9.	Dr. Anirudh Pratap Singh IFS, Ph. D.	21000
10.	Dr.Meena Atul Shah, Surat	20000
11.	Sadbhav Foundation, Mumbai	11000
12.	Ms. Falguni K.Sheth	11000
13.	Prasad Biotech,Valsad	10000
14	Amiben Parikh, Pardi	10000
15	B.H. Antia,Mumbai	10000
16.	Mr.Navina M. Mehta	7000
17.	Mr.Chirag Surendrabhai Shah,Narayan Powertech Pvt Ltd.	6000
18	Kapila Manoj Menon,VNSGU,Surat	5001
19.	IshwarlalMaganlalPrajapati,Sardar Market,Surat	5000
20.	Mr.Rameshbhai T.Jadhav,Nasik	5000
21	Krishna Enterprise,Surat	5000
22.	Dr.Amar Singh,Barailee,UP	5000
23.	M.Shantha Reddy,Surat	5000
24	Arvind Deodara,Shreeji Creation	5000
25	Pollucon laboratories Pvt Ltd	5000
108	Total:	15,86,001/-

Activities of Prof. Minoo H. Parabia Endowment Fund

Prof. Minoo H. Parabia Endowment Fund was established by Dr. M.N. Reddy after the retirement of Prof. M.H. Parabia in 2010.

Dr. M.N. Reddy was pioneer during the foundation of BVBRC and worked together with Prof. M.H. Parabia.

The maximum contribution was given from Shri Hari Om Mota Ashram, Surat. The Department of Biosciences are having Two Gold Medals for PG students from the donation of Prof. Minoo H. Parabia Endowment Fund has named as

(1) Hari Om Ashram Prerit Dr. Minoo Parabia Gold Medal in M.Sc. ZOOLOGY, and

(2) Hari Om Ashram Prerit Dr. Minoo Parabia Gold Medal in M.Sc. MICROBIOLOGY.

The department is already having Vaidyaraj Bapalal Vaidya Gold Medal in M.Sc. BOTANY.

Therefore, these two medals are assigned to another two disciplines. The rest part of the amount was converted into corpus fund and utilized to conduct academic and research activities are organized during every year from the Prof. Minoo H. Parabia Endowment Fund.

Corpus Fund for Research & Maintenance

Bank interest gained from respected FDs will be utilized for research, development and academic activities. Shri Bapalal Vaidya Chari is organizing workshops, conference and guest lectures. Maintenance of the building is done with the interest of 10 lakh corpus. Similarly, botanical garden is maintained by the corpus of 10 lakhs. Late Shri Pestonji Eruchshah Contractor and Miss Doli Eruchshah Contractor fund is maintained by Prof. Minoo H. Parabia, Padma Shri Yazdi Karanjia and Mr. Dara Mistry. They have donated Rs. 20 Lakh to create corpus for research and development activities at BVBRC. Prof. Minoo H. Parabia Endowment Fund has sponsored two gold medals and the rest is kept as corpus from which several activities like academic events, supporting needy students for academic and research, garden maintenance is done.

Sr. No.	Purpose of Corpus	Name of Donor	Corpus (INR)
1.	Shri Bapalal Vaidya Chair	Hindu United Family & Dr. Anand Prafulchandra Bapalal Vaidya	10,00,000/-
2.	Maintenance of BVBRC building	Hindu United Family & Dr. Anand Prafulchandra Bapalal Vaidya	10,00,000/-
3.	ASPEE Dhanvantari Udhyan	Hindu United Family & Anand Prafulchandra Bapalal Vaidya	10,00,000/-
4.	Research & Development	In the Memory of Late Shri Pestonji Eruchshah Contractor and Miss Doli Eruchshah Contractor	20,00,000/-
5.	Prof. Minoo H. Parabia Endowment Fund	Collected from Society	9,00,000/-

Foundation & Building Components of BVBRC

❖ Lallubhai Patel

- ❖ Owner of American Spring & Pressing Works Pvt. Ltd. known as ASPEE.
- ❖ He has Gandhian personality with Sardar's decision power.
- ❖ His village was Tansa.
- ❖ He has given donation of rupees fifteen lakh at the time of building construction, the most significant contribution.
- ❖ He has established centre for young farmers to conduct research with all the basic equipments and library.
- ❖ A young farmer can conduct research without any degree and expense to extend the results for benefit of the society.
- ❖ However the mentality of certificate driven learning approach has not attracted youngster much in that concept.
- ❖ He has donated many of that equipment and books to BVBRC.

Anand Prafulchandra Bapalal Vaidya & Hindu United Family

Dr. Prafulchandra Vaidya was a son of Shri Bapalal Vaidya and Dr. Anand Vaidya is son of Dr. Prafulchandra Vaidya and grandson of Shri Bapalal Vaidya. The family is living in Surat. They have family trust as Hindu United Family and donated twenty lakh rupees out of which ten lakh corpus is utilized to create Shri Bapalal Vaidya Chair and another rupees ten lakh corpus is utilized for the maintenance of building. Dr. Anand Vaidya has donated another rupees ten lakh to create corpus for the maintenance of garden. This family has given more than Rs. 30,50,000/- donation to BVBRC. Dr. Anand Vaidya has donated drainage system and waterproof top coat to the building.



Shri Hari Om Mota Ashram, Surat

Shri Hari Om Mota Ashram, Surat has donated total of Rs. 9,50,000/- in phases to the BVBRC and Prof. Minoo Parabia Endowment Fund. The names of present trustees are Shri. Harilal T. Salar, Shri Shailesh Z. Goti, Shri Rajnikant P. Burmawalla, Shri Pravinbhai B. Patel, Shri Jimit D. Vakawalla, Shri Mukesh H. Master, Shri Arpan A. Kothdiya.



Biodiversity Conservation

List of selected tree species of the botanical garden of BVBR

Name	Common Name	Family
<i>Adansonia digitata</i>	રૂખડો	Malvaceae
<i>Adhatoda vasica</i>	અરડૂસી	Acanthaceae
<i>Adenanthera pavonina</i>	રક્ત ગુંજા	Fabaceae
<i>Adenocalyma alliaceum</i>	લસણ વેલ	Bignoniaceae
<i>Adina cordifolia</i>	હળદરુ	Rubiaceae
<i>Aegle marmelos</i>	બીલી	Rutaceae
<i>Alangium salviifolium</i>	અંકોલ	Cornaceae
<i>Albizia lebbeck</i>	શિરીષ	Fabaceae
<i>Ardisia solanacea</i>	ધનપ્રીય	Myrsinaceae
<i>Bauhinia purpurea</i>	કાંચનાર	Fabaceae
<i>Bauhinia racemosa</i>	આસિત્રો	Fabaceae
<i>Bombax ceiba</i>	શીમળો	Malvaceae
<i>Borassus flabellifer</i>	તલ	Arecaceae
<i>Butea monosperma</i>	કેસુડો	Fabaceae
<i>Ceiba pentandra</i>	શ્વેત શલ્મલી	Malvaceae
<i>Commiphora wightii</i>	ગુગળ	Burseraceae
<i>Cordia myxa</i>	ગુંદા	Boraginaceae
<i>Cycas circinalis</i>	Sago	Cycadaceae
<i>Ensete superbum</i>	જંગલી કેળાં	Musaceae
<i>Ficus krishnii</i>	માખણકટોરી	Moraceae
<i>Ficus religiosa</i>	પીપળો	Moraceae
<i>Ficus tsiella</i>	Rubber Plant	Moraceae
<i>Gmelina arborea</i>	શિવણ	Verbinaceae
<i>Gmelina hystrix</i>	--	Verbinaceae
<i>Guaiacum officinale</i>	Rough bark lignum-vitae	Zygophyllaceae
<i>Helicteres isora</i>	મરડાસિંગ	Malvaceae

Biodiversity Conservation		
List of selected tree species of the botanical garden of BVBRC		
Holoptelea integrifolia	ચીરબીલ્વ	Ulmaceae
Hyphaene indica	રાવણત્રાસ	Arecaceae
Lawsoniainermis	મહેંદી	Lythraceae
Limoniaacidissima	કોઠા	Rutaceae
Madhuca indica	મહુડો	Sapotaceae
Malpighia emarginata	Barbados cherry	Malpighiaceae
Millettia pinnata	કરંજ	Fabaceae
Millingtonia hortensis	Indian cork tree	Bignoniaceae
Mimusopselengi	બોરસલી	Sapotaceae
Mitragynaparvifolia	કલમ	Rubiaceae
Morus rubra	શેતુર	Moraceae
Ochna kirkii	Mickey Mouse Plant	Ochnaceae
Oroxylum indicum	ટેટુ	Bignoniaceae
Ougeiniaoojeinensis	તણછ	Fabaceae
Pavetta indica	-	Rubiaceae
Phoenix dactylifera	ખજૂરી	Arecaceae
Phyllanthus acidus	ખટુમડા	Phyllanthaceae
Phyllanthus emblica	આમળા	<u>Phyllanthaceae</u>
Pimentaaromatica	All Spice	Myrtaceae
Premna integrifolia	અઝીમંથ	Verbenaceae
Santalum album	ચંદન	<u>Santalaceae</u>
Saracaasoca	અશોક	Fabaceae
Sicca acida	ખટુમડા	Euphorbiaceae
Sterculia foetida	કડવીબદામ	Malvaceae
Sterculia urens	કડાયો	Malvaceae
Tectonagrandis	સાગ	<u>Verbinaceae</u>
Tournefortia	સાઈફા	Guttiferaceae

NAAC VISIT (2022)



લેખક પરિચય



શ્રી કેશવભાઈ મકનજી પટેલ

શ્રી કેશવભાઈ મકનજી પટેલનો જન્મ મુરત જિલ્લાના હજીરા ગામમાં તા. ૨૩-૮-૨૭ના રોજ થયેલો.

તેમનામાં રહેલી અવલોકનશક્તિ અને તકશક્તિનો શુભગ સમન્વય હોય, વિવિધ ક્ષેત્રમાં પ્રયોગો કર્યા છે. શિક્ષણ અંગે "કરુણાની જ્યોત", બેનીવાડી શેરે "જાદુઈ ખેતી", "કુદરતની લીલા", "સવોદય પાથમાનું", "વિચારમગ્ન" લેખ લખ્યા છે.

તેમને ત્યાં દુર્ભીઆ દર્દીઓ આવતા અને પોતાના દુઃખદર્દની વાત કહેતા. દર્દીની વાકેફ થઈ તેનું ચિંતન-મન કરવા પ્રયોગો કરતા. તેના પરિણામ રૂપે કેન્સર, સાંધાનો લેપ, પ્રલોભન લેપ તથા ગાબરાના ભસ્મ તૈયાર કરી અનેક રોગની સારવાર કરી રહ્યા છે.

તેમજ અન્ય ભસ્મ બનાવી ગુપ્તરોગો, અસાધ્યરોગો વગેરેને નાશવાના પ્રયોગો કરી રહ્યા છે. તેમન કોઈપણ કાર્ય અસાધ્ય લાગતું નથી. તે રીતે તેઓ આયુર્વેદનું કામ કરી રહ્યા છે.

આ અંગાઈ "અમુલ્ય ગૌરવધાનો" નું પુસ્તક તેમજ "વનદેવીથી બાળતો એઈડ્સ, કેન્સર અને પાચાણપદની પુસ્તિકાઓ પ્રકાશિત

- ❖ Welcoming visit of students from school and colleges to visit museum and botanical garden.
- ❖ Providing certificate for plant taxonomic identification.
- ❖ Organizing Tribal Training Program to the interior part of villages. Teaching them to prepare formulas form kitchen spices are surrounding plants. Someone who wants to organize such event in their village may contact us on bvbrc@vnsgu.ac.in.

પાચાણૌષધ

કેશવભાઈ મ.પટેલ

ગુજરાતમાં ગ્રામનામ અને વનસ્પતિ



યો વૈદ્યપરંપરા બાળ્ય મુલ્ય હોય,
તરખે ચલાવ્ય મુરખે તરખે તમોસુ ॥

શ્રીમતી ડૉ. ધર્મિષ્ઠા ત્રિવેદી (M.D. Ave)

ડૉ. ધર્મિષ્ઠા ત્રિવેદી

જન્મ : ૩૦ સપ્ટેમ્બર ૧૯૫૭

જન્મ સ્થળ : રાજકોટ

શાળાભણ : મુખ્યશાસ્ત્રી મહા-

કમળા મહા

અભ્યાસસ્થળ : મુલત, જામનગર

અભ્યાસ : એમ. ડી. (શાસ્ત્ર)

(સ્પીચીય - પ્રવૃત્તિ)

અભ્યાસકક્ષા આરોગ્ય વિભાગ

અને સંશોધન સેલો

● દૈનિક : મુજરાતમિત્ર, પ્રતાપ

● સાપ્તાહિક : કુમાર, વાણી

● પુસ્તિકા : રસોડું જે રસાશાસ્ત્ર

● વાર્ષિક : અભ્યાસ, સંશોધન, સાદક, સંસ્થાના

● અધિક માર્ગોએ સ્વોદય અગ્રામ મહા દ્વારા અનેક

જાતોમાં સ્વસ્થતા શરિયા અને સંશોધનાર્થે પ્રવાસ.

● સામ : ૧૯૯૦ સ્વતંત્ર જી. ત્રિવેદી સાથે

● સ્વતંત્ર : 'વંશોદય' ચિકિત્સાલક્ષ

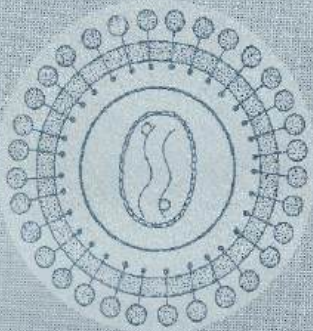
૩૫, સ્વામીનારાયણ જ્ઞાન, સ્વતંત્ર, મુરત

(સ્પીચીય-વંશોદય-સ્વતંત્રવિદિ નિબંધ)



વનદેવીથી લાગતો એઈડ્સ

(AIDS)



લેખક
કેશવભાઈ મ. પટેલ

કેન્સર (Cancer)



લેખક
કેશવભાઈ મ. પટેલ

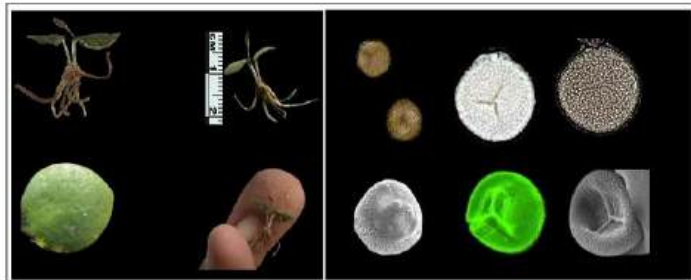
કુરુપાતી જ્યોત



લેખક
કેશવભાઈ મ. પટેલ

ગાંધી સ્મૃતિ





SCIENTIFIC REPORTS

nature

Ophioglossum malviae Patel & Reddy

Type locality:

Jakhana village (20°37'36.79"N, 73°44'31.47"E, altitude ~471 m), Dang district, Gujarat, Western Ghats, India.

Key features:

O. malviae is unique among species of this genus by its very small size and spike, spores with outer perine layer and unique type of stomata in which the marginal cells of lower epidermis form dome like papillae. It is reported as the world's smallest terrestrial pteridophyte.

THE INDIAN FERN JOURNAL



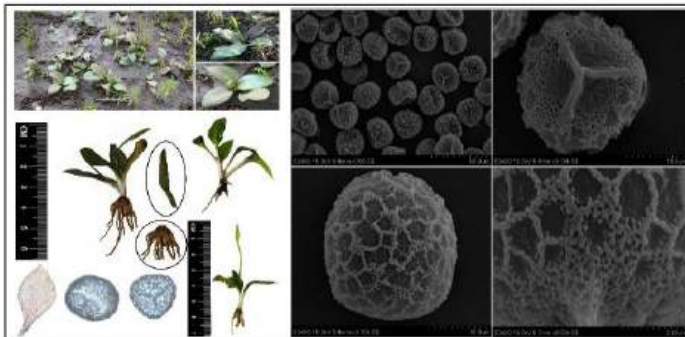
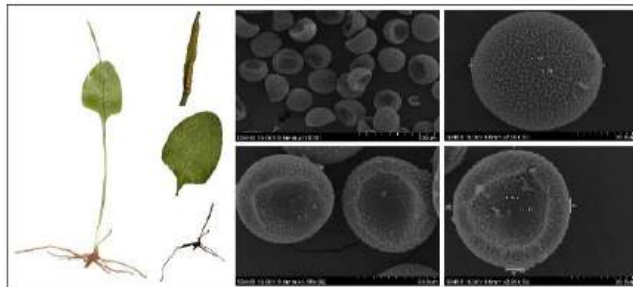
Ophioglossum aletum Patel, Reddy & Goswami

Type locality:

Baripada village (0°38'18.37"N, 73°41'13.67"E, altitude ~480 m), Dang district, Gujarat, India.

Key features:

An unusual and large-sized *Ophioglossum* plants (up to 32 cm.) is described as *O. aletum*, from the South Gujarat, which are characterized by possessing almost 90% alete spores mostly growing in chains and periderm in petiole a feature never recorded in any species in the world flora of the genus.



BOTANY LETTERS



Taylor & Francis

Ophioglossum hitkishorei Patel & Reddy

Type locality:

Kodmal near Don hill station (20°76'27.61" N 73°80'42.06" E, altitude ~471 m), Ahwa, Dang, Gujarat, India.

Key features:

It can be diagnosed from other congeners by a combination of its smaller size, globose to subglobose, non-stoloniferous rhizome, number of trophophylls up to six, the absence of persistent leaf bases at top of rhizome and by very unique structure of beaded strings spores. Such types of spores are not observed in any species of *Ophioglossum* in the world flora.

NORDIC JOURNAL OF BOTANY

Crinum reddyi M. Patel & H. Patel

Type locality:

Ghantvel village, (21°01'09.61"N, 73°34'10.96"E, altitude ~139 m), Songadh tehsil, Tapi district, Gujarat, India.

Key features:

A distinctive new species of *Crinum* (Amaryllidaceae) is reported from marshy areas along the Gira river, southern Gujarat, India. *Crinum reddyi* superficially resembles *C. solapurens* but differs in having spherical or round, cremish white, tunicate bulbs, 10–17 distichous to sub distichous, canalculated leaves, shorter, yellowish green peduncles (35–60 cm long), fewer flowers (up to 16), 6–12 capsules per infructescence, 4–7, chlorophyllous, rugose seeds per capsule and mainly vegetative propagation.



Citation

Patel, M., & Reddy, M. N. (2018). Discovery of the World's Smallest Terrestrial Pteridophyte. *Scientific reports*, 8(1), 5911.

Patel, M., Reddy, M., & Goswami, H. K. (2018). A Terrestrial Large-Sized *Ophioglossum aletum*: New Species From Gujarat, India. *Indian Fern J.*, 35, 318–331.

Patel, M., & Narsimha Reddy, M. (2019). Revealing a new species of *Ophioglossum* (Ophioglossaceae-Pteridophyta) from India with palynological and phylogenetic implications. *Botany Letters*, 166 (4)425–433.

Patel, Mitesh, and Harshil Patel. *Crinum reddyi* sp. nov. (Amaryllidaceae) from Gujarat, India. *Nordic Journal of Botany* 37.4 (2019).

Patel, M., & Patel, H. (2019). *Crinum reddyi* sp. nov. (Amaryllidaceae) from Gujarat, India. *Nordic Journal of Botany*, 37(4).

**Department of Biosciences,
Veer Narmad South Gujarat University, Surat**

NEW RECORDS OF PTERIDOPHYTES REPORTED FROM THIS DEPARTMENT FOR THE FLORA OF GUJARAT



Mitesh Patel & M. N. Reddy



Cheilanthes tenuifolia (Burm. f.) Sw.



Hypodematum crenatum (Forssk.) Kuhn



Aleuripteris dubia (C. Hope) Ching



Aleuripteris bicolor (Roxb.) Fraser-Jenk.



Aleuripteris formosana (Hayata) Tagawa



Aleuripteris albomarginata (C. B. Clarke) Ching



Athyrium micropterum ex Fraser-Jenk.



Isoetes pantii H. K. Goswami & B. S. Arya



Isoetes sampathkurnanii L. N. Rao



Anogramma leptophylla (L.) Link



Actiniopteris dimorpha. Pic. Sern.



Aleuripteris anceps. (Blanf.) Panigrahi



Ophioglossum polyphyllum A. Braun ex Schub.



Ophioglossum lusitanicum L.



Ophioglossum petiolatum Hook.

DEPARTMENT OF BIOSCIENCES,
VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

Future Aspects

❖ Dr. M. N. Reddy Phytochemistry & Nanotechnology

Laboratory is under development from the donation raised in 2022 after the retirement of Prof. M.N. Reddy. The donation is mainly given by his colleagues and alumni students of the department.

❖ Prof. Minoo H Parabia Phytoresource Centre

❖ Digital Herbarium

❖ Botanical Garden and Museum with QR code

Accepted Donations are Eligible Under Section 80G(5)

1.	Name of the Account:	:	M/S Bapalal Vaidya Botanical Research Centre
	Account No.	:	443402010003151
	Name of the Bank	:	Union Bank
	Branch of the Bank	:	Vesu Branch
	IFSC		UBIN0544345
2.	Name of the Account:	:	M/S Minoo Parabia Endowment Fund
	Account No.	:	443402010007998
	Name of the Bank	:	Union Bank
	Branch of the Bank	:	Vesu Branch
	IFSC	:	IFSC: UBIN0544345

Link for Videos & Articles

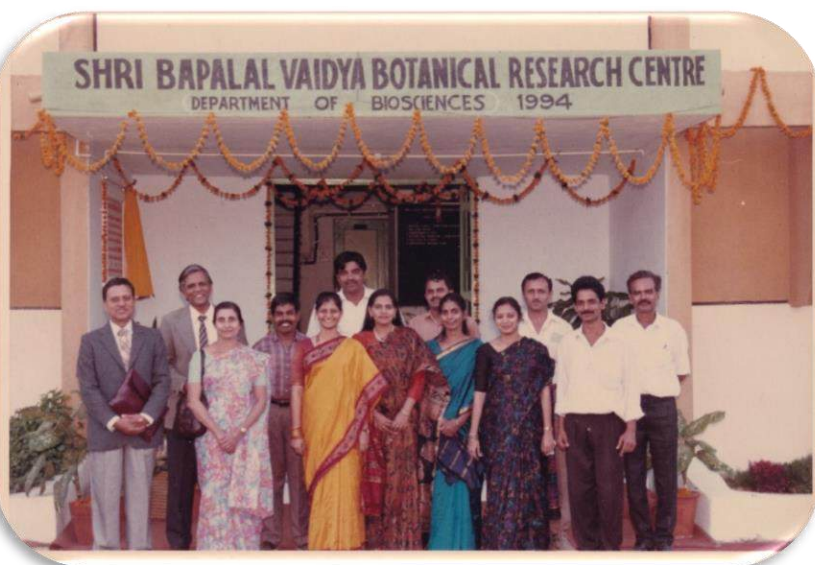


https://drive.google.com/drive/mobile/folders/1S2a2_87P15wx9bgXca64hFItB6ZluR86?usp=sharing

Sr. No.	Name of the Event (Videos)	Date of the Event
1.	Workshop of Identification of Medicinal Plants & Homeopathy	09.04.2022
2.	Camp on Identification of Medicinal Plants from Forest	27.08.2023
3.	Seminar on Medicinal Plant	17.09.2022

Sr. No.	Title of the Article
1.	Article on BVBRC in Gujarati
2.	આંગણે ઓષધિ (Angne Aushadhi) in Gujarati
3.	Dadima Na Nuskha By Dr.Minoo Parabia
4.	Gujarat Ni Vanaushdhio Ayurved Na Paripekshy Ma Article By Prof. Minoo Parabia
5.	Magazine on Shri Bapalal Vaidya (વનાયું ઈ-મેગેઝીન બાપાલાલ સ્મૃતિ વિશેષાંક)
6.	Booklet on Prof. Minoo Parabia (AMARA PARBI SIR)
7.	Prof. Minoo H. Parabia (Photo Gallary)
8.	A Man of Botany in Society
9.	Booklet on Shri Lallukaka

Contact Us



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<https://www.vnsgu.ac.in/departments/dbs/index.html>

Beauty in the Biosciences





Library In-charge

Department teaching faculties Dr. Dhara A. Gamit, Assistant Professor & Ms. Parish S. Patel, Temporary Assistant Professor plays an important role as a library in-charge. All the books are under the observation of the library in-charge. Their important role towards the library is to maintain the books in the bookshelves & their records.

No. of Books on our Library shelves

Subject	No. of Books
Botany	1303
Zoology	
Microbiology	
P.G.D.M.L.T.	
P G Diploma in Toxicology	
E-Journals	5
Magazine	30

RESEARCH
AT
GLANCE



Departmental Projects

Name of the Coordinator	Title of the project and duration	Amount sanctioned (Rs)	Funding Agency
Dr. S. K. Tank Dr. M. N. Reddy	UGC-SAP-DRS-I: Toxicity evaluation of Textile Industry Effluents 5 Years 2011 to 2016	41,60,000	UGC
Dr. R. K. Patel & Dr. P.R. Dudhagara Dr. J.K.Barot	UGC-SAP-DRS-II: Ecogenomics and environmental toxicology 5 Years 2018 to 2023	67,08,000	UGC
Dr. K.P.Patel Dr. F. M. Parabia	DST-FIST-I: Host Microbiome 5 Years 2018 to 2023	7500000	DST

Faculty Projects



Name of the PI/Co-I/Team Member	Title of the project and duration	Amount sanctioned (Rs)	Funding Agency
Dr. P. K. Gadhia	Hematological, Biochemical and Cytogenetic studies of Parsis in India. 3 Years: 2003-2006	13,40,000	UNESCO-PARZOR, France
Dr. M. H. Parabia	Development and standardization of herbal antimalarial drug 1 year: 2009 to 2010	61,40,000	DST in Collaboration with SPU & in Pharma Industry
Dr. K. P. Patel	Effects of heavy metals on seed germination and plant growth on <i>Trigonella foenum gracum</i> L. and <i>Cajanus cajan</i> (L.) Mill sp. 2 Years: 2007 to 2009	70,000	UGC, minor research project
Dr. P. K. Gadhia & Y. J. Thanki	Assessment of treated effluent from ONGC for aquaculture and agriculture use. The project was sponsored by ONGC, Hajira, Surat 2 Years: 2009 to 2011	6,00,000	ONGC
Dr. M. N. Reddy	Toxicity Evaluation of Bone Slurry/Sludge 2 Years 2010 to 2011	6,00,000	India Gelatin Pvt. Ltd., Vapi
Dr. J. K. Barot	Histopathological and haematological alterations in dye exposed fish <i>Catla catla</i> 2 Years 29/01/2014 to 28/01/2016	1,50,000	UGC
Dr. M. N. Reddy	Cancer cell Migration and saponins 3-year 11/07/ 2014 to 2017	9,86,000	GSBTM
Dr. K. P. Patel	Effects of coal fly ash on growth and development of some agriculture crops 3 years Continue since 03/03/2015	7,35,000	GSECL
Dr. K. P. Patel	Assessment of Treated Industrial Effluent for Agriculture Use.” Project No: EPA/IWWT/RP-15-2009 EPA, UAE 3 Years: 2010 to 2013	60, 000 AED	ADCo, UAE

Faculty Projects



Name of the PI and Co-I	Title of the project and duration	Amount sanctioned (Rs)	Funding Agency
Dr. Rajesh Patel	Development of environmentally and economically sustainable composite solution for municipal solid waste 4 Years: 2019 to 2023	13,76,056	GSBTM
Dr. Pravin Dudhagara	An integrated process to enhance the biological treatment efficiency and improve the quality of effluent discharge from paper and pulp industry 4 Years: 2019 to 2023	22,41,586	GSBTM
Dr. Jigna Desai	Development of integrated waste water treatment systems using alternative innovative approaches of microbial fuel cells, magnetic nanoparticles and Vermicomposting with water hyacinth for secondary sludge management 4 Years: 2019 to 2023	21,09,836	GSBTM
Dr. Rajesh Patel & Dr. M. N. Reddy	in vitro screening and validation of herbal formulation and phytochemicals for COVID 19 prevention and treatment 1 year 2022 to 2023	15,16,343	GSBTM
Dr. F. M. Parabia & Dr. F. Sheth	To ascertain and evaluate the nondestructive substitutes of the bark of Saraca asoca (Roxb.) De Wilde 3 Year: 2021 to 2024	5,50,000	Ministry of AYUSH
Dr. Pravin Dudhagara	Surveillance and monitoring of SARS-CoV-2 from sewage of Surat and Vadodara 1 year 2022 to 2023	9,62,862	GSBTM
Dr. Pravin Dudhagara	Surveillance and monitoring of SARS-CoV-2 by RT-PCR from sewage sample 6 months : 2021	1,42,000	SMC and NIUA
Dr. Pravin Dudhagara	Effect of Panchkrama and Panchgavya Therapy on Human Gut Microbiome 2 years: 2022 to 2024	98,000	VNSGU

Faculty Projects



Name of the PI and Co-I	Title of the project and duration	Amount sanctioned (Rs)	Funding Agency
Dr. R. K. Patel and Dr. P. R. Dudhagara	Network Project on Antimicrobial resistance, superbugs, and One health 3 year: 2022 to 2025	92,17,280	GSBTM
Dr. R. K. Patel and Dr. P. R. Dudhagara	Genomic Surveillance for SARS-CoV-2 in India :Indian SARS-CoV-2 Genomic Consortium(INSACOG) - Phase II 2 year: 2022 to 2024	75,00,000	DBT INSACOG
Dr. R. K. Patel	Exploration of alternative and natural farming input on conventional and vertical farming practice for economic and sustainable agricultural practice 3 year: 2023 to 2026	67,32,712	GSBTM
Dr. K. P. Patel	Conservation of Ethnomedicinal Knowledge of Tribal People from Different Zone of South Gujarat by Site survey and Systematic Documentations	8,00,000	ICSSR
Dr. K. P. Patel	Effects of Fly-Ash Based Organic Fertilizer on Soil Microbial Communities	2,90,000	UGC
Dr. K. P. Patel	Application of Coal Fly Ash for Sustainable Agriculture	2,00,000	UGC
Dr. Dhara Gamit	Sustainable Environment Practices of Tribal scheduled areas of South Gujarat	12,00,000	ICSSR

Faculty Overseas Visits	Name of the Faculty	Events/Institute/University	Country	Year
	Dr. Kailash Patel	Sciences City, Al Khobar	Saudi Arabia	2008
	Dr. Kailash Patel	Tree of Life	Bahrain	2007
	Dr. Kailash Patel	Botanical Garden	Singapore	2011
	Dr. Kailash Patel	Horticulture Garden	Thailand	2011
	Dr. Kailash Patel	Wildlife & Bird Century, Al Ain	UAE	2012
	Dr. Kailash Patel	Frankincense Forest, Salalah	Oman	2012
	Dr. Kailash Patel	4th International Conference on Environmental Science and Development, ICESD Dubai	UAE	2013
	Dr. Kailash Patel	Paradise Garden, Al Ain	UAE	2013
	Dr. Kailash Patel	Miracle Garden, Dubai	UAE	2014
	Dr. Kailash Patel	Archeological Park, Al Ain	UAE	2022
	Dr. Rajesh Patel	State Key Laboratory of Molecular Biology, Institute of Biochemistry and cell Biology, Shanghai	China	2001
	Dr. Rajesh Patel	National University of Singapore	Singapore	2005
	144			

Faculty Overseas Visits	Name of the Faculty	Events/Institute/University	Country	Year
	Dr. Rajesh Patel	National University of Singapore	Singapore	2005
	Dr. Rajesh Patel	Thailand Science Park, Pathum Thani	Thailand	2013
	Dr. Rajesh Patel	ECCB 2016, World Forum Convention Center, The Hague	Netherlands	2016
	Dr. Rajesh Patel	United Arab Emirates University	UAE	2016
	Dr. Rajesh Patel	Microbiome: Human, Plant, and Environmental Health - application and challenges (UAE Microbiome 2023)	Abu Dhabi	2023
	Dr. Pravin Dudhagara	Federation of Asian & Oceanian Biochemists & Molecular Biologists (FAOBMB), International FAOBMB Conference	Singapore	2014
	Dr. Pravin Dudhagara	25th FAOBMB Manila conference, Philippines	Philippines	2015
	Dr. Pravin Dudhagara	First UAEU symposium on Biological sciences, genomics & bioinformatics, School of Biology, UAE University	UAE	2016
	Dr. Pravin Dudhagara	ECCB, 2016 Den Hague	Netherlands	2016
	Dr. Pravin Dudhagara	First UAEU symposium on Biological sciences, genomics & bioinformatics, School of Biology, UAE University	UAE	2016
	Dr. Pravin Dudhagara	ICGEB-NASSL, South Asian Biotechnology Conference 2018 - SABC 2018, Colombo	Sri Lanka	2018
	145			

Faculty Overseas
Visits

Name of the Faculty	Events/Institute/University	Country	Year
Dr. Pravin Dudhagara	Southeast Asian regional symposium on Microbial ecology, Pokhara	Nepal	2019
Dr. Pravin Dudhagara	Plant endophytes and their roles in controlling plant health. South-East Asia region, ICGEB-IMBT workshop, Hanoi,	Vietnam	2019
Dr. Pravin Dudhagara	4th International conference of young scientist, on Soil in Environment at Torun	Poland	2022
Dr. Pravin Dudhagara	Udayana University	Bali, Indonesia	2023
Dr. Pravin Dudhagara	9th Federation of Immunological Societies of Asia-Oceania Congress (FIMSA 2024)	Taipei, Taiwan	2024
Dr. Rajesh Patel	Udayana University International Senior Fellowship (UNISERF) Program	Bali, Indonesia	2024



Ph.D Awardees

Sr. No.	Name	Year
1	Mr. S. B. VASAVADA	1980
2	Mr. S. I. JOSHI	1980
3	Mr. J. U. THAKER	1981
4	Mr. S. BHAN	1981
5	Mr. J. S. MARTIN	1981
6	Mr. A. M. VASAVADA	1981
7	Mr. J. P. TRIVEDI	1982
8	Mr. R. T. VASHI	1982
9	Mr. T. MATHAI	1982
10	Mr. R. N. MAC	1982
11	Mr. K. S. PILLAI	1983
12	Mr. R. A. CHAUHAN	1984
13	Ms. Y. A. SHAIKH	1985
14	Mr. B. V. RAOL	1986
15	Mr. M. N. REDDY	1987
16	Mr. H. G. SHARMA	1987
17	Ms. R. A. VYAS	1988
18	Ms. M. A. SHAH	1988
19	Ms. A. J. UMADEVI	1988
20	Mr. J. H. PANDYA	1988
21	Ms. K. D. DESAI	1989
22	Mr. J. THOMAS	1990
23	Mr. N. C. GAVIT	1990
24	Ms. M. A. RANGOONWALA	1990
25	Mr. K. N. RAO	1991
26	Mr. K. N. RAO	1991
27	Ms. A. A. THOMAS	1992
28	Ms. S. H. BAXI	1992
29	Mr. MANOJ E.	1993
30	Mr. G. N. PATEL	1994
31	Ms. K. V. SONDERVA	1994
32	Ms. M. G. BAXI	1994
33	Ms. A. THOMAS	1994
34	Ms. S. S. NAIR	1995
35	Mr. R. T. JADHAV	1996
36	Mr. V. B. KADAM	1996
37	Ms. D. C. BHATT	1996
38	Ms. G. I. MACWAN	1996
39	Mr. O. N. BHOGE	1997
40	Mr. P. N. NARKHEDE	1997
41	Mr. T. S. PATIL	1998
42	Ms. D. V. R. SHAILAJA	1998
43	Mr. K. S. GROVER	2000
44	Mr. B. R. PATEL	2000
45	Ms. S. S. ANANDJIWALA	2001



Ph.D Awardees

46	Mr. S. JOSEPH	2001
47	Ms. J. M. PANDYA	2001
48	Ms. B. K. MEHRA	2001
49	Ms. K. B. SHAH	2002
50	Ms. J. K. ARORA	2002
51	Mr. S. N. VANIAWALA	2002
52	Mr. G. G. SAWANT	2002
53	Ms. G. P. BHATT	2002
54	Mr. S. RAJENDRAN	2002
55	Mr. B. A. RANA	2002
56	Ms. P. M. PATEL	2002
57	Ms. S. S. PATHAK	2002
58	Ms. K. P. PATEL	2003
59	Ms. S. VIBHA	2003
60	Mr. A. P. SINGH	2003
61	Ms. H. J. PANDYA	2003
62	Ms. B. S. SHAH	2003
63	Mr. K. G. VAISHNAV	2003
64	Mr. G. S. SHAH	2003
65	Ms. L. S. RAJWANI	2004
66	Mr. S. MAISURIA	2004
67	Ms. M. SARAVIYA	2005
68	Mr. R. R. PANCHAL	2005
69	Mr. B. SHAH	2006
70	Ms. S. BARDOLIWALA	2006
71	Mr. M. A. PITHAWALA	2006
72	Ms. A. PATEL	2006
73	Mr. B. GAMI	2007
74	Mr. D. N. TAMAKUWALA	2007
75	Mrs. R. B. DESAI	2007
76	Mrs. S. DASGUPTA	2007
77	Ms. F. K. SHETH	2008
78	Mr. F. STEPHEN	2008
79	Ms. M. R. ADHVARYU	2008
80	Mr. S. Y. KHARADI	2008
81	Ms. S. S. CHAKRABORTY	2008
82	Mr. A. SINGH	2009
83	Mr. N. BHATLA	2009
84	Ms. V. N. PRAJAPATI	2009
85	Ms. R. N. DESAI	2009
86	Mr. A. B. THAKOR	2009
87	Mr. G. D. LATHIYA	2009
88	Ms. P. R. PARMAR	2010
89	Ms. L. S. BARHATE	2010
90	Ms. H. A. MEHTA	2010



Ph.D Awardees

91	Ms. J. J. PACHCHIGAR	2011
92	Ms. V. L. PILLI	2011
93	Ms. P. M. DESAI	2011
94	Ms. M. M. JOGI	2011
95	Mr. R. P. THUMBER	2011
96	Mr. A. BHANDALEKAR	2011
97	Mr. K. M. PATEL	2012
98	Mr. N. V. BUTANI	2012
99	Mr. A. P. PATIL	2014
100	Ms. A. K. MAHAJAN	2014
101	Mr. A. KAMBHANMPATI	2014
102	Mr. K. V. SONI	2014
103	Ms. R. R. GADHVI	2014
104	Mr. N. K. PANDYA	2014
105	Ms. J.S.RANA	2014
106	Mr. A. K.SINGH	2014
107	Mr. A. P. PATIL	2014
108	Ms. A. B. DOHARE	2014
109	Ms. D. A. GAMIT	2014
110	Ms. H. M. PARAKH	2014
111	Ms. U. S. ZANKHARIA	2015
112	Mr. G. SHASHTRI	2015
113	Mr. P. M. PATEL	2015
114	Ms. A. H. KAVANE	2015
115	Ms. J. J. DESAI	2016
116	Mr. D. D. BHAGAT	2016
117	Ms. R. G. DESAI	2017
118	Ms. M. K. Vyas	2017
119	Ms. U. R. Desai	2017
120	Ms. S. T. Sidi	2017
121	Mr. B. V. Kanthariya	2017
122	Mr. V. G. Sharma	2017
123	Ms. H. D. Patel	2017
124	Ms. M. D. Dholaria	2017
125	Mr. J. R. Rana	2018
126	Mr. B. N. Shukla	2018
127	Ms. H. V. Parekh	2018
128	Ms. K. M. Shah	2018
129	Mr. M. A. Hajaoori	2019
130	C. B. Naik	2019
131	R. R. Patel	2019
132	A. M. Chawla	2019



Ph.D Awardees

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Students Exchange

Sr. No.	Name	Student Exchange
1	Neelam Vaghamshi	Duration: 6 month(1st December 2022 to 31st May 2023)TEEP-Taiwan Experience Education Program (Exchange and training program)ctional Genomics Laboratory, Department of Biological Science and Technology, National Pingtung University of Science and Technology, Pingtung, Taiwan.
2	Komal Antaliya	
3	Smita Atara	
4	Manoj Godhaniya	

List of Seminar / Conference / Workshop / Training at Department

Sr. No.	Seminars / Conferences / Workshop	Funding Agency	State / National / International	Participants
1	Workshop on HPTLC and its application 07 to 08/10/2011	Self-Generated	State	24
2	Seminar on Bird Rescues 12/01/2012	Department of Gujarat forest, Gov. funded	State	150
3	National conference 1 st Biological Tools for Sustainable Environment (BTSE) 11/10/2014	UGC - SAP	National	189
4	Hands on Training of sophisticated Instruments 03/03/2015	Self-Generated	State	20
5	Workshop on genotoxicity and mutagenicity 18 to 21/10/2015	Self-Generated	State	48
6	National conference 2 nd Biological Tools for Sustainable Environment (BTSE) 19 to 20/02/2016	UGC - SAP and Golden Jubilee	National	276
7	Curriculum Development for PG Diploma in Toxicology 06/08/2016	Self	-	-

Conference/ Seminar/ Lectures Organization

Sr. No.	Name of event	Resource person	Participants	Date
1	2 nd National conference on Biological Tools for sustainable environment (BTSE)	Dr. S. T. Ingle (NMU, Jalgoan), Dr. J. A. Khan (GBB, Gandhinagar)	210	19-20 /02/2016
2	Symposium on contemporary trends in Cancer Research	Dr. Rakesh Rawal (GCRI), Dr. Arvind Ingle (ACTREC, Mumbai), Dr. Shiva Chettiar (Genexplore)	114	3/18/2017
3	Special Lecture on Basic Genetics and Chromosome System	Dr. P. Reddy (Hyderabad)	104	9/5/2018
4	3 rd National conference on BTSE	Dr. Ramesh Kothari (Saurashtra Uni, Rajkot)	172	3/24/2018
5	Invited Lecture on Bioleaching of Heavy Metals	Dr. S. R. Dave (GU, Ahmedabad)	86	2/16/2019
6	Special Lecture on Environmental and Ecogenomics	Dr. Hemant Purohit (NEERI, Nagpur)	153	3/20/2019
7	4 th National Conference on BTSE	Dr. Kartikey (Kutch)	238	3/2/2019
8	5 th National online conference on BTSE	Dr. Manish Kumar (IIT), Dr. Pravin Puranik (KBSNMU, Jalgoan), Dr. Devyani Tipre (GU, Ahmedabad)	512	3/27/2021
9	An International Conference on Path and Prospects in Applied Biosciences.	Dr. Bartłomiej Głina, Department of Soil Science and Microbiology, Poznań University of Life Sciences, Poland. 2. Dr. Niraj Tandon, former Scientist G (Senior Deputy Director General) at the Indian Council of Medical Research (ICMR).3. Lalu Rudyat Telly Savalas, Lecturer in Biochemistry, Department of Chemistry, Faculty of Teacher Training and Education, University of Mataram Nusa Tenggara Barat, Indonesia.	203	30-31/07/2022 163

MOUs

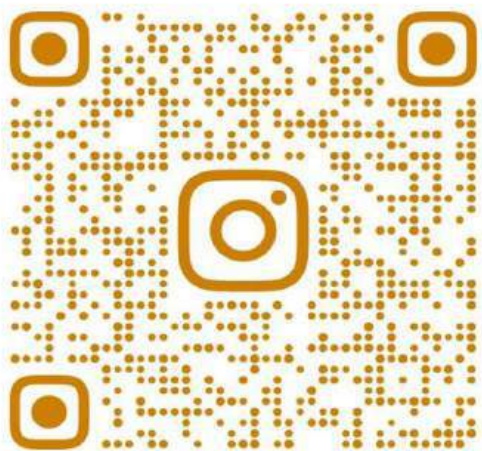
Sr. No.	Name of the University
1	Gujarat Biotechnology Research Centre (GBRC)
2	Gujarat State Biotechnology Mission (GSBTM)
3	Vande Bharatam University
4	Gujarat Ayurveda University, Jamnagar

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mibextid=ZbWKw](https://www.facebook.com/profile.php?id=100094499299534&mibextid=ZbWKw) - Facebook

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