

INFRASTRUCTURE FACILITIES

The Aspee Shakilam Biotechnology Institute (ASBI), Navsari Agricultural University, Surat has been established with the financial aid of Department of Agriculture and Co-operation, Government of Gujarat in April, 2012. The institute provides various facilities including state of art instruments, laboratory facilities, library, e-Lab and women plant tissue culture training centre with qualified academic staff. Also, it is achieving the significant recognition for its high quality of teaching.

Vision :

To promote human resource development in the frontier areas of Molecular Biology, Transgenics, Plant Tissue Culture, Microbiology, Genomics and Proteomics, Immunology, Biochemistry and Bioinformatics; the high priority areas of Agricultural Biotechnology.

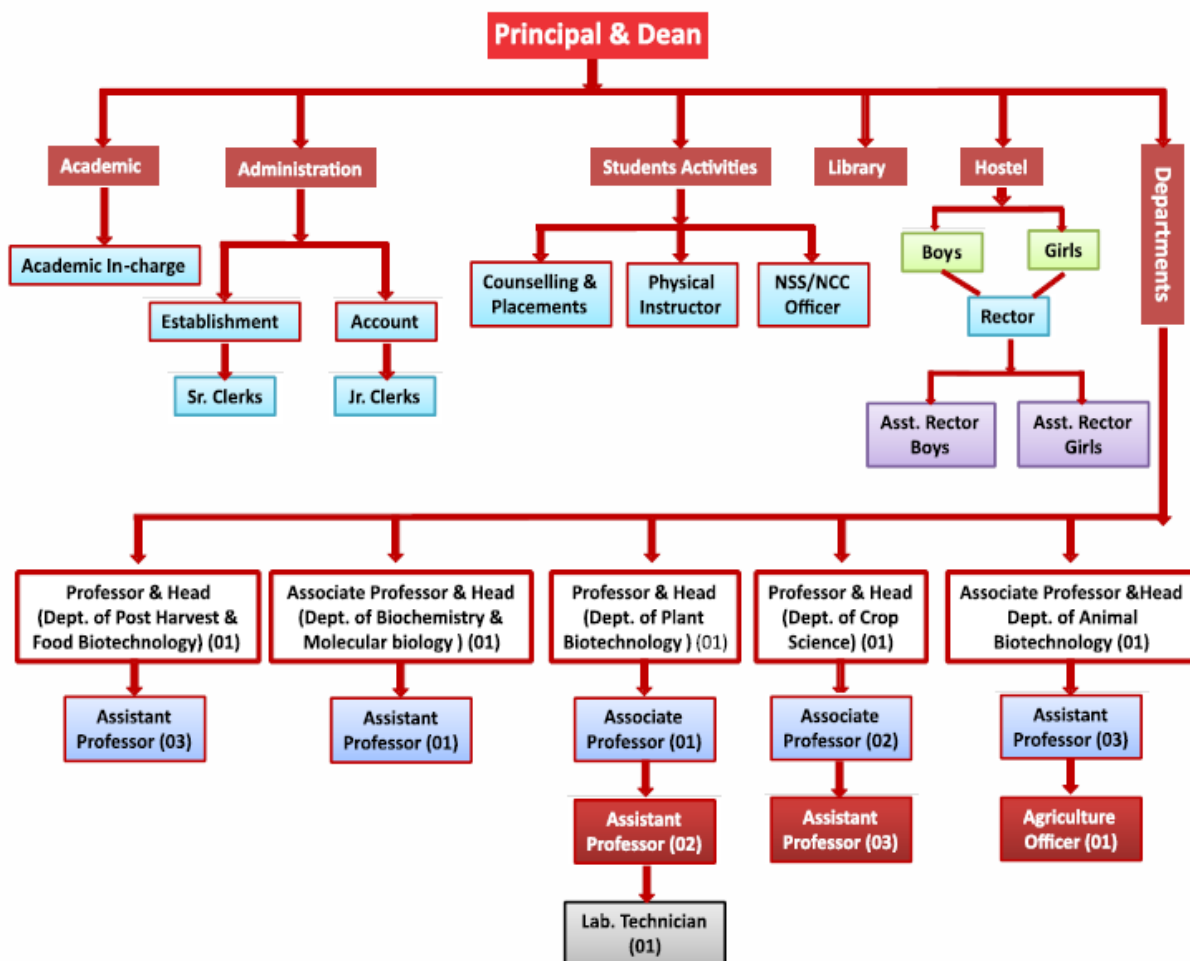
Objectives :

- To promote human resource development through teaching, by conducting training programmes, organizing seminars and interactive meetings, granting scholarships for specific research and conducting examinations leading to the award of degree.
- To cultivate excellence and state of the art laboratories in high priority areas of Agricultural Biotechnology.
- To promote scientific innovations in relation to manufacturing, commerce and industry in general and agriculture in particular.
- To back up advance conventional research programmes in crops for speedy and sustainable output.
- To network with universities, institutions, research organizations, laboratories, industrial or commercial organizations in India or abroad for advancing scientific research.
- To act as consultants / advisors to individuals, institutions, laboratories, (research / industrial / commercial / charitable), and other organizations and also to government bodies, for furtherance of the objectives of the institute.

The Aspee Shakilam Biotechnology Institute has four departments, equipped with high quality instruments, experienced faculties and fully planned academic calendar. All the departments are well established and maintained by experts as well as students. Further more students have been trained for practical handling of the instruments, chemicals and glass wares. The college is engaged with four departments as under departments :

- 1) Division of Plant Biotechnology
- 2) Division of Animal Biotechnology
- 3) Division of Microbial & Environmental Biotechnology
- 4) Bioinformatics Section

ADMINISTRATIVE STRUCTURE OF THE COLLEGE



Women Tissue Culture Training Center

- The Aspee Shakilam Biotechnology Institute is conducting the Women Tissue Culture Training Programme since 2014 at Surat for women only.

Objective:

- Imparting training intended for preparing skilled women in Plant tissue culture technique.

Detail of Programme:

Staring of the programmes : 2014

Duration of the training : Six months

Admission eligibility : SSC (10th standard)

Capacity : 10 women/ batch

No. of Programme : 2 / year

Fees for the training : Rs 100/- (Non refundable)



Demonstration of plant tissue culture technique **Trainees working in the laboratory**

INFRASTRUCTURAL FACILITIES:

ACADEMICS

College provides B. Tech. Biotechnology Degree of 8 semesters. Courses are structured for increased practical and Practice content's. Experiential learning programmes and Courses on entrepreneurship development, communication skills, computer knowledge, agribusiness, and environment science are also included in the courses content's. Class rooms are outfitted with LED interactive board, and the teaching learning is backed by AV teaching aids.

ACCOMODATION

College provides separate hostel facilities for girls and boys. Hostels are equipped with all the basic amenities like, water cooler, TV room, Mess & dining hall.

LABORATORIES

College has separate labs i.e. Molecular Biology, Biochemistry, Microbiology, Bioinformatics and Plant Tissue culture and genetic transformation. All the labs are equipped with state of art instrumentation facilities.

INTERNET

The college has good bioinformatics computer laboratory which provides training to students. The College possesses CCTV surveillance along campus and also managed at hostels both for boys and girls. Colleges having Internet connection, locally networked and connected through wi-fi also to the central server are available for students for their project work and preparing seminar presentations. Internet facilities in the well-equipped internet lab, providing high speed connectivity, the student can surf the internet together unlimited information.

INSTRUMENTS

Sr. No	Name of Instruments/ equipments	No. of piece	Sr. No	Name of Instruments/ equipments	No. of piece
1.	UV Transilluminator	01	2.	Lyophilizer	01
3.	Vortex	03	4.	Nano Drop	01
5.	Refrigerated centrifuge with rotor	01	6.	Freezer (-860C)	01
7.	Mini centrifuge with Rotor	02	8.	Fermenter	01
9.	Weighing balance	03	10.	Hybridization chamber	01
11.	Spectrophotometer	02	12.	Water purification system	01
13.	pH meter	02	14.	Binocular Microscope	28
15.	Autoclave	03	16.	Trinocular Microscope	01
17.	Thermal cycler	02	18.	Tissue lyser	01
19.	Electrophoresis	01	20.	Orbital shaking incubator cum B.O.D. incubator	01
21.	Real time PCR	01	22.	Hot air Oven	01
23.	Gel Doc. System	02	24.	Incubated shaker Max Q 6000	02
25.	Laminar Air flow	03	26.	Incubated shaker Max Q 8000	02
27.	Freezer : -40 ⁰ C	01	28.	Liquid N container (47ltr. + 2ltr.)	1+1
29.	Freezer : -20 ⁰ C	01	30.	UPLC	01
31.	Stereo Zoom Microscope	01	32.	Magnetic stirrer with hot plate	01
33.	Micro-oven	04	34.	Hi glass bead stirrer	01
35.	Refrigerators	03	36.	Digital dry block heater	01
37.	Atomic Absorption Spectroscopy	01			



ASPEE SHAKILAM Biotechnology Institute Overview



College Library



Tissue culture Lab



Plant Biotechnology Laboratory



Bioinformatics Laboratory



Microbiology Laboratory



Classroom



Sport Ground



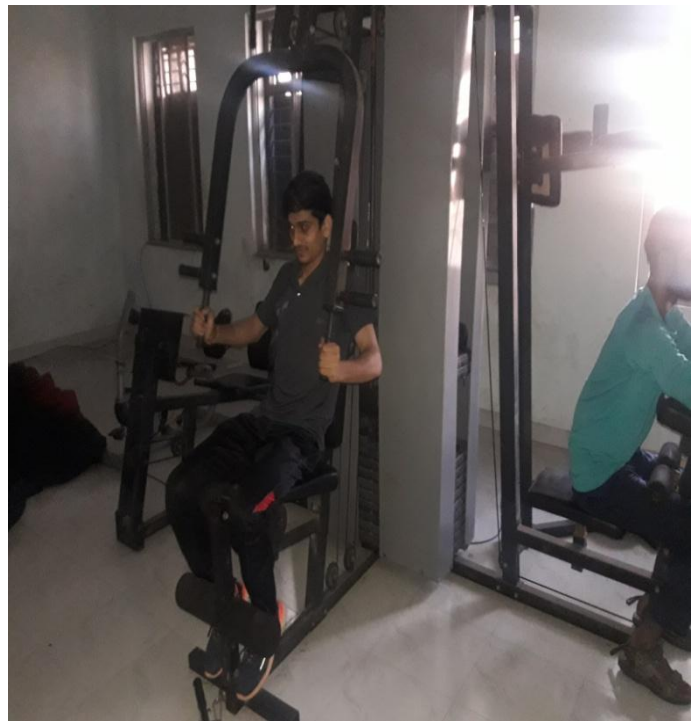
Girls Hostel



Boys Hostel



Girls Gymnasium



Boys Gymnasium



NSS Activities



Auditorium